

Williams

1973

# Water Resources Data for California

## Part 2. Water Quality Records



**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

Prepared in cooperation with the California Department  
of Water Resources and with other agencies

# CALENDAR FOR WATER YEAR 1973

1972

## OCTOBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## NOVEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

## DECEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

1973

## JANUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

## FEBRUARY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

## MARCH

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## APRIL

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

## MAY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## JUNE

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

## JULY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## AUGUST

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

## SEPTEMBER

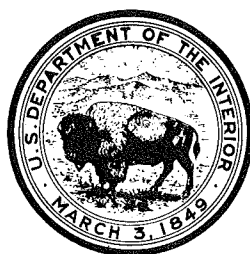
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						



1973

# **Water Resources Data for California**

## **Part 2. Water Quality Records**



**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**Prepared in cooperation with the California Department  
of Water Resources and with other agencies**

Water-resources records, 1973, for California are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for California  
Part 1: Surface Water Records  
Volume 1: Colorado River Basin, Southern Great Basin, and Pacific Slope Basins  
excluding Central Valley
2. Water Resources Data for California  
Part 1: Surface Water Records  
Volume 2: Northern Great Basin and Central Valley
3. Water Resources Data for California  
Part 2: Water Quality Records

Copies of these reports may be obtained from  
District Chief, Water Resources Division  
U.S. Geological Survey  
855 Oak Grove Avenue  
Menlo Park, California 94025

1975

Prepared in cooperation with

California Department of Water Resources  
California Department of Transportation  
California Water Resources Control Board  
Coachella Valley County Water District  
Desert Water Agency  
Georgetown Divide Public Utility District  
Monterey County Flood Control and Water Conservation District  
Orange County Flood Control District  
Orange County Water District  
Placer County Department of Public Works  
Riverside County Flood Control and Water Conservation  
District  
San Diego County  
San Bernardino Valley Municipal Water District  
San Luis Obispo County Engineering Department  
San Mateo County Flood Control District  
San Rafael, City of  
Santa Clara County Flood Control and Water District  
Santa Cruz City Water Department  
Santa Cruz County Flood Control and Water Conservation  
District  
Siskiyou County Flood Control and Water Conservation  
District  
Solano Irrigation District  
United Water Conservation District  
University of California (Berkeley)  
University of California (Davis)  
Ventura County Flood Control District



## CONTENTS

	Page
List of water-quality stations, in downstream order, for which records are published.....	VI
Introduction.....	1
Cooperation.....	2
Definition of terms.....	3
Special networks and programs.....	12
Downstream order and station number.....	14
Well number.....	15
Collection and examination of data.....	16
Biological and microbiological variables.....	17
Solutes.....	18
Temperature.....	18
Sediment.....	19
Turbidity.....	20
Water-supply papers.....	21
Selected references.....	22
Water-quality records.....	26
Index.....	653

## ILLUSTRATIONS

	Page
Figure 1. Map of California showing drainage-basin boundaries and number and distribution of water-quality stations.....	XIV
2. System for numbering wells (latitude and longitude).....	16

## TABLES

	Page
Table 1. Factors for conversion of chemical consti- tuents in milligrams or micrograms per litre to milliequivalents per litre.....	7
2. Factors for conversion of sediment concen- trations in milligrams per litre to parts per million.....	7
3. Degress Celsius (°C) to degrees Fahrenheit (°F).....	19
4. Conversion of turbidity values.....	21
5. Water-supply papers containing records for parts 9-11, water years 1941-70.....	21
6. Factors for converting English units to International System units (SI).....	25

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

(Letters after station name designate type of data: (c) chemical  
(b) biological, (t) water temperature, and (s) sediment)

	Page
COLORADO RIVER BASIN	
COLORADO RIVER:	
Colorado River below Hoover Dam, Ariz.-Nev. (c).....	26
LAKE HAVASU:	
DIVERSIONS FROM LAKE HAVASU	
Colorado River aqueduct near Parker Dam, Ariz.-	
Calif. (c).....	28
Colorado River below Parker Dam, Ariz.-Calif. (c).....	29
Colorado River above Imperial Dam, Ariz.-Calif. (c).....	31
Colorado River below Laguna Dam, Ariz.-Calif. (c).....	37
DIVERSIONS AND RETURN FLOWS AT AND BELOW IMPERIAL DAM	
Gila Gravity Main Canal at Imperial Dam, Ariz.-	
Calif. (ct).....	39
THE GREAT BASIN	
SALTON SEA BASIN	
New River at International boundary, at Calexico (cb)	41
ANTELOPE VALLEY	
Big Rock Creek near Valyermo (t).....	44
OWENS LAKE BASIN	
Owens River:	
Los Angeles aqueduct at outlet, at San	
Fernando (c).....	45
PYRAMIND AND WINNEMUCCA LAKES BASIN	
Upper Truckee River (head of Truckee River):	
Grass Lake near Meyers (ts).....	46
Upper Truckee River at South Lake Tahoe (ts).....	49
Lake Tahoe:	
Eagle Creek near Camp Richardson (ts).....	53
Meeks Creek at Meeks Bay (ts).....	56
Quail Lake Creek near Homewood (ts).....	59
Madden Creek near Homewood (ts).....	62
Madden Creek at Homewood (ts).....	65
Ward Creek near Tahoe Pines (ts).....	68
Ward Creek tributary near Tahoe Pines (ts).....	71
Ward Creek at State Highway 89, near Tahoe	
Pines (ts).....	74
Dollar Creek near Tahoe City (ts).....	77
Trout Creek at South Lake Tahoe (ts).....	80
Little Truckee River:	
Sagehen Creek near Truckee (ts).....	84
Truckee River at Farad (ct).....	86
HONEY LAKE BASIN	
Susan River at Susanville (c).....	89

## WATER-QUALITY STATIONS IN DOWNSTREAM ORDER

VII

	Page
PACIFIC SLOPE BASINS IN CALIFORNIA	
SOUTH COASTAL BASINS	
TIJUANA RIVER BASIN	
Tijuana River near Nestor (s).....	90
SAN DIEGO RIVER BASIN	
San Diego River near Santee (ts).....	92
SAN LUIS REY RIVER BASIN	
San Luis Rey River at Oceanside (ts).....	96
SANTA MARGARITA RIVER BASIN	
Santa Margarita River at Ysidora (ts).....	99
SAN JUAN CREEK BASIN	
San Juan Creek at San Juan Capistrano (ts).....	102
Arroyo Trabuco at San Juan Capistrano (ts).....	106
PETERS CANYON WASH BASIN	
Peters Canyon Wash:	
San Diego Creek near Irvine (ts).....	110
San Diego Creek at Lane Road, near Irvine (ts).....	114
SANTA ANA RIVER BASIN	
Santa Ana River:	
San Bernardino Water Quality Control Plant at San Bernardino (c).....	118
Santa Ana River at MWD Crossing, near Arlington (c)..	121
Riverside Water-Quality Control Plant at Riverside narrows, near Arlington (c).....	125
Santa Ana River below Prado Dam (ct).....	128
Santa Ana River at Imperial Highway, near Anaheim (ts)	136
Santa Ana River at Santa Ana (ts).....	140
SAN GABRIEL RIVER BASIN	
San Gabriel River at Azusa powerhouse, at Azusa (c)..	144
San Gabriel River at Whittier Narrows (c).....	145
LOS ANGELES RIVER BASIN	
Los Angeles River at Willow Street bridge, at Long Beach (cb).....	146
CALLEGUAS CREEK BASIN	
Calleguas Creek:	
Arroyo Simi near Simi (s).....	149
Calleguas Creek at Camarillo State Hospital (ts).....	152
SANTA CLARA RIVER BASIN	
Santa Clara River at Los Angeles-Ventura County line (cts).....	156
Piru Creek above Frenchmans Flat (c).....	163
Piru Creek above Lake Piru (c).....	166
Piru Creek near Piru (c).....	168
Sespe Creek near Wheeler Springs (t).....	170
Sespe Creek near Fillmore (cts).....	171
Santa Paula Creek near Santa Paula (c).....	177
Saticoy diversion near Saticoy (c).....	181
Santa Clara River at Montalvo (ts).....	183
VENTURA RIVER BASIN	
Ventura River near Ventura (cts).....	187



# VIII WATER-QUALITY STATIONS IN DOWSTREAM ORDER

PACIFIC SLOPE BASINS IN CALIFORNIA--Continued	Page
SOUTH COASTAL BASINS--Continued	
ARROYO GRANDE BASIN	
Arroyo Grande above Phoenix Creek, near Arroyo Grande (ts).....	191
BIG SUR RIVER BASIN	
Big Sur River near Big Sur (t).....	195
SALINAS RIVER BASIN	
Salinas River:	
Santa Rita Creek near Templeton (ts).....	196
Nacimiento River below Sapaque Creek, near Bryson (ts).....	201
San Antonio River near Lockwood (ts).....	205
Arroyo Seco near Greenfield (ts).....	210
Salinas River near Spreckels (cts).....	213
PAJARO RIVER BASIN	
Pajaro River:	
Llagas Creek above Chesbro Reservoir, near Morgan Hill (ts).....	220
Carnadero Creek:	
Uvas Creek above Uvas Reservoir, near Morgan Hill (ts).....	224
Pajaro River at Chittenden (c).....	229
SOQUEL CREEK BASIN	
Soquel Creek at Soquel (t).....	230
SAN LORENZO RIVER BASIN	
San Lorenzo River:	
Zayante Creek at Zayante (cts).....	231
San Lorenzo River at Big Trees (cts).....	235
PESCADERO CREEK BASIN	
Pescadero Creek near Pescadero (ts).....	241
SAN FRANCISCO BAY AREA DRAINAGE BASINS	
COLMA CREEK BASIN	
Colma Creek at South San Francisco (ts).....	243
GUADALUPE RIVER BASIN	
Guadalupe River:	
Ross Creek below Jarvis Road, at San Jose (cs).....	246
CALABAZAS CREEK BASIN	
Calabazas Creek:	
Calabazas Creek tributary at Mt. Eden Road, near Saratoga (cts).....	250
Prospect Creek at Saratoga Golf Course, near Saratoga (cts).....	254
COYOTE CREEK BASIN	
Coyote Creek near Gilroy (ts).....	257
ALAMEDA CREEK BASIN	
Alameda Creek:	
Arroyo de la Laguna:	
Arroyo Valle near Livermore (t).....	261
Alameda Creek near Niles (ts).....	262

## WATER-QUALITY STATIONS IN DOWNSTREAM ORDER

IX

## PACIFIC SLOPE BASINS IN CALIFORNIA--Continued

Page

## SAN LORENZO CREEK BASIN

## San Lorenzo Creek:

Castro Valley Creek at Hayward (cs)..... 266

## BUENA VISTA LAKE BASIN

Kern River near Quaking Aspen Camp (t)..... 272

Kern River at Kernville (ts)..... 273

Borel Canal below Isabella Dam (t)..... 275

Kern River below Isabella Dam (t)..... 276

## TULARE LAKE BASIN

Tule River near Springville (t)..... 277

Tule River below Success Dam (ct)..... 278

## Middle Fork Kaweah River (head of Kaweah River):

## East Fork Kaweah River:

Monarch Creek near Hammond (t)..... 280

East Fork Kaweah River below Mosquito Creek, near  
Hammond (t)..... 281

East Fork Kaweah River near Three Rivers (t)..... 282

Kaweah River at Three Rivers (t)..... 283

Kaweah River below Terminus Dam (ct)..... 284

Kings River above North Fork, near Trimmer (t)..... 286

North Fork Kings River above Dinkey Creek, at  
Balch Camp (t)..... 287

Kings River below North Fork, near Trimmer (t)..... 288

Kings River below Pine Flat Dam (t)..... 289

## SAN JOAQUIN RIVER BASIN

## San Joaquin River below Kerckhoff Powerhouse, near

Prather (t)..... 290

Fresno River near Knowles (t)..... 291

Chowchilla River near Raymond (t)..... 292

## Merced River at Happy Isles Bridge, near

Yosemite (cts)..... 293

## Lily Creek (head of Clavey River) near

Pinecrest (t)..... 297

## Tuolumne River below La Grange Dam, near

La Grange (t)..... 298

Tuolumne River at Modesto (t)..... 299

## Middle Fork Stanislaus River (head of Stanislaus

River) at Hells Half Acre Bridge, near

Pinecrest (t)..... 300

Stanislaus River near Hathaway Pines (t)..... 301

## Stanislaus River below Tulloch Powerplant, near

Knights Ferry (t)..... 302

## Stanislaus River below Goodwin Dam, near Knights

Ferry (t)..... 303

San Joaquin River near Vernalis (cbts)..... 304

## South Fork Calaveras River (head of Calaveras River):

## Calaveras River above New Hogan Dam, near San

Andreas (t)..... 318

## Calaveras River below New Hogan Dam, near Valley

Springs (t)..... 319

Mokelumne River near Mokelumne Hill (t)..... 320

PACIFIC SLOPE BASINS IN CALIFORNIA--Continued	Page
SAN JOAQUIN RIVER BASIN--Continued	
San Joaquin River--Continued	
Mokelumne River below Camanche Dam (t).....	321
Mokelumne River at Woodbridge (ct).....	322
Cosumnes River at Michigan Bar (cts).....	324
SACRAMENTO RIVER BASIN	
Sacramento River near Mt Shasta (t).....	327
Sacramento River at Delta (ct).....	328
North Fork Pit River (head of Pit River):	
Pit River near Canby (ct).....	330
Sacramento River at Keswick (c).....	333
Clear Creek near Igo (t).....	334
Cow Creek:	
South Cow Creek near Millville (t).....	335
Middle Fork Cottonwood Creek (head of Cottonwood	
Creek) near Olinda (t).....	336
Cottonwood Creek near Cottonwood (c).....	337
Battle Creek below Coleman Fish Hatchery, near	
Cottonwood (t).....	338
Sacramento River above Bend Bridge, near Red Bluff (t).	339
Mill Creek at mouth, near Los Molinos (c).....	340
Thomes Creek at Paskenta (cts).....	341
Stony Creek:	
Little Stony Creek above East Park Reservoir, near	
Lodoga (t).....	346
Stony Creek near Fruto (t).....	347
Stony Creek below Black Butte Dam, near Orland (ct)..	348
Sacramento River at Butte City (t).....	350
Colusa Weir Spill to Butte Basin near Colusa (s).....	351
Sacramento River at Colusa (s).....	354
Butte Creek near Chico (ct).....	358
Cherokee Canal near Nelson (ts).....	360
Sacramento River below Wilkins Slough, near Grimes (t).	365
Sacramento River above Colusa Trough, at Knights	
Landing (c).....	366
Colusa Trough near Colusa (c).....	368
Middle Fork Feather River (head of Feather River)	
near Clio (t).....	369
Middle Fork Feather River near Merrimac (t).....	370
North Fork Feather River:	
Indian Creek:	
Little Grizzly Creek near Genesee (t).....	371
Indian Creek near Crescent Mills (t).....	372
North Fork Feather River at Pulga (t).....	373
West Branch Feather River near Paradise (t).....	374
Lake Oroville:	
Thermalito afterbay release to Feather River near	
Oroville (t).....	375
Feather River at Oroville (cts).....	376

## WATER-QUALITY STATIONS IN DOWNSTREAM ORDER

XI

## PACIFIC SLOPE BASINS IN CALIFORNIA--Continued

Page

## SACRAMENTO RIVER BASIN--Continued

## Sacramento River--Continued

Feather River near Gridley (ts).....	381
Feather River at Yuba City (ts).....	386
Middle Yuba River (head of Yuba River):	
Oregon Creek below Log Cabin Dam, near Camp-	
tonville (t).....	390
North Yuba River below New Bullards Bar Dam,	
near North San Juan (t).....	391
South Yuba River at Jones Bar, near Grass	
Valley (ts).....	392
Yuba River below Englebright Dam, near Smart-	
ville (t).....	394
Yuba River near Marysville (t).....	395
Feather River near Nicolaus (t).....	396
North Fork American River (head of American River)	
at North Fork Dam (t).....	398
Middle Fork American River:	
Canyon Creek near Georgetown (t).....	399
South Fork American River near Kyburz (t).....	400
South Fork American River near Lotus (t).....	401
American River at Fair Oaks (t).....	402
Strong Ranch Slough at Sacramento (cs).....	403
Sacramento River at Sacramento (ts).....	407
Sacramento River at Freeport (cbt).....	414
Sacramento River at Green's Landing, near	
Courtland (c).....	419
Yolo Bypass:	
Clear Lake (head of Cache Creek):	
Adobe Creek:	
Highland Creek below Highland Creek Dam, near	
Kelseyville (cts).....	421
Putah Creek near Guenoc (ts).....	425
Hunting Creek near Knoxville (cs).....	427
Adams Creek near Knoxville (cs).....	432
Nevada Creek near Knoxville (cs).....	435
Putah Creek near Winters (ct).....	438
NORTH COASTAL BASINS	
NAPA RIVER BASIN	
Napa River near St. Helena (t).....	440
SALMON CREEK BASIN	
Salmon Creek at Bodega (t).....	441
RUSSIAN RIVER BASIN	
Russian River:	
East Fork Russian River near Calpella (ct).....	442
East Fork Russian River near Ukiah (ct).....	444
Russian River near Hopland (t).....	446

## XII

## WATER-QUALITY STATIONS IN DOWNSTREAM ORDER

PACIFIC SLOPE BASINS IN CALIFORNIA--Continued	Page
NORTH COASTAL BASINS--Continued	
RUSSIAN RIVER BASIN--Continued	
Russian River near Healdsburg (t).....	447
Dry Creek near Cloverdale (t).....	448
Dry Creek near Geyserville (cts).....	449
Russian River near Guerneville (cts).....	458
GARCIA RIVER BASIN	
Garcia River near Point Arena (t).....	465
NAVARRO RIVER BASIN	
Navarro River near Navarro (ct).....	466
NOYO RIVER BASIN	
Noyo River near Fort Bragg (t).....	468
TENMILE RIVER BASIN	
Tenmile River:	
Middle Fork Tenmile River near Fort Bragg (t).....	469
MATTOLE RIVER BASIN	
Mattole River near Petrolia (ct).....	470
EEL RIVER BASIN	
Eel River below Scott Dam, near Potter Valley (t).....	472
Potter Valley powerhouse tailrace near Potter Valley (t).....	473
Eel River near Dos Rios (cts).....	474
Eel River above Dos Rios (t).....	481
Black Butte River near Covelo (ts).....	482
Middle Fork Eel River below Black Butte River, near Covelo (t).....	486
Elk Creek near Hearst (ts).....	487
Middle Fork Eel River near Dos Rios (ts).....	489
North Fork Eel River near Mina (ts).....	494
Chamise Creek near Island Mountain (ts).....	499
Eel River at Fort Seward (cts).....	504
Dobbyn Creek near Fort Seward (ts).....	513
Eel River at South Fork (c).....	518
South Fork Eel River:	
Elder Creek near Branscomb (cts).....	519
South Fork Eel River at Leggett (t).....	523
South Fork Eel River near Miranda (ct).....	524
Eel River at Scotia (cts).....	526
Van Duzen River near Dinsmores (t).....	535
Van Duzen River near Bridgeville (ct).....	536
MAD RIVER BASIN	
Mad River near Forest Glen (cts).....	538
Mad River near Kneeland (cts).....	541
Mad River near Blue Lake (cts).....	547
North Fork Mad River near Korbel (s).....	553
Mad River near Arcata (cts).....	555
REDWOOD CREEK BASIN	
Redwood Creek near Blue Lake (ts).....	564
Redwood Creek at South Park boundary, near Orick (cs).	568
Redwood Creek at Orick (cts).....	570

## WATER-QUALITY STATIONS IN DOWNSTREAM ORDER

XIII

PACIFIC SLOPE BASINS IN CALIFORNIA--Continued	Page
NORTH COASTAL BASINS--Continued	
KLAMATH RIVER BASIN	
Klamath River below Iron Gate Dam (ct).....	575
Shasta River near Yreka (ct).....	578
Klamath River near Seiad Valley (t).....	580
Salmon River at Somes Bar (t).....	581
Klamath River at Orleans (cts).....	582
Trinity River at Lewiston (ct).....	587
Trinity River near Burnt Ranch (t).....	589
South Fork Trinity River:	
Hayfork Creek near Hyampom (t).....	590
South Fork Trinity River below Hampom (t).....	591
Trinity River at Hoopa (cts).....	592
Blue Creek near Klamath (t).....	597
Klamath River near Klamath (ct).....	598
SMITH RIVER BASIN	
Smith River near Crescent City (ct).....	601
Analyses of samples collected at water-quality partial-record stations (cs).....	603
Chemical analyses of ground waters in California.....	651

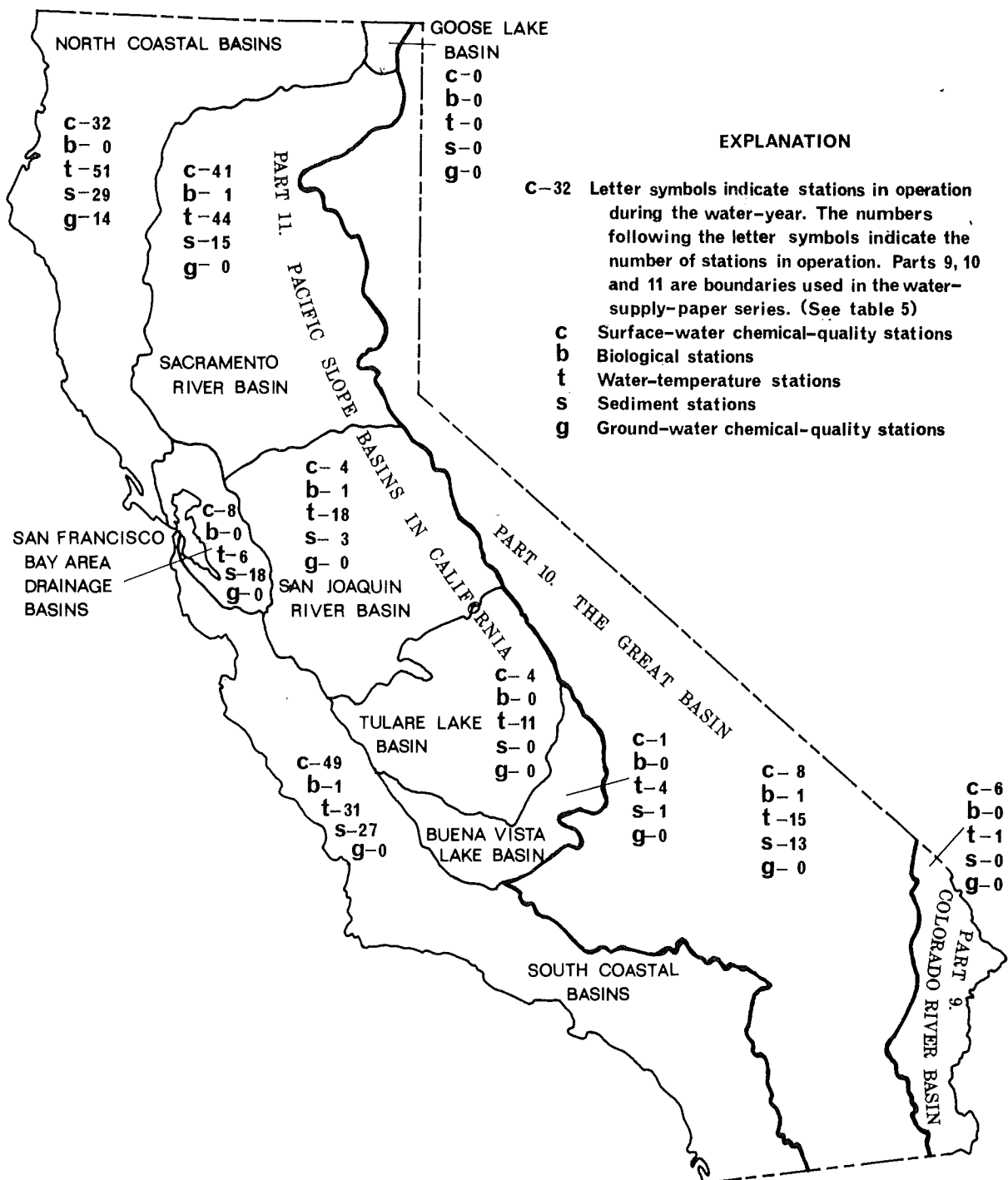


FIGURE 1.--Drainage-basin boundaries and number and distribution of water-quality stations.



# WATER RESOURCES DATA FOR CALIFORNIA, 1973

## Part 2. Water Quality Records

### INTRODUCTION

Water-resources data for the 1973 water year for California include records of data for the chemical, physical, and biological characteristics of surface and ground water. These data were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly, or less frequently, and at some sites data were recorded on punched paper tape at 15-, 30-, or 60- minute intervals. The distribution, type, and number of stations in each river or drainage basin are shown in figure 1. A few pertinent stations in bordering States are also included. These records were compiled by the Water Resources Division of the U.S. Geological Survey under the direction of Lee R. Peterson, district chief. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in California.

The Geological Survey has published records of chemical quality, water temperatures, and sediment since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year. These records will be published later in Geological Survey water-supply papers.

## COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreement with the following organizations:

California Department of Water Resources, J. R. Teerink, director.  
California Department of Transportation, John B. Skog, assistant materials and research engineer.  
California Water Resources Control Board, Bill B. Dendy, executive officer.  
Coachella Valley County Water District, Lowell D. Weeks, general manager.  
Desert Water Agency, Paul G. Payne, general manager.  
Georgetown Divide Public Utility District, C. F. Gierau, general manager.  
Monterey County Flood Control and Water Conservation District, Loran Bunte, Jr., district engineer.  
Orange County Flood Control District, H. G. Osborne, chief engineer.  
Orange County Water District, Nereus Richardson, David Argo, assistant district engineers.  
Placer County Department of Public Works, John Maccoun, director.  
Riverside County Flood Control and Water Conservation District, John W. Bryant, chief engineer.  
San Diego, County of, Department of Sanitation and Flood Control, C. J. Houson, director.  
San Bernardino Valley Municipal Water District, Jack. A. Beaver, general manager.  
San Luis Obispo County Engineering Department, George C. Protopapas, county engineer.  
San Mateo County Flood Control District, Vic K. Sanders, manager.  
San Rafael, City of, Ely Caillouette, Jr., city engineer.  
Santa Clara County Flood Control and Water District, Donald C. Currlin, manager-counsel.  
Santa Cruz City Water Department, Weston L. Webber, director.  
Santa Cruz County Flood Control and Water Conservation District, D. A. Porath, district engineer.  
Siskiyou County Flood Control and Water Conservation District, David A. Gravenkamp, director of public works.  
Solano Irrigation District, Brice Bledsoe, secretary manager.  
United Water Conservation District, Richard A. Smith, general manager-chief engineer.  
University of California (Berkeley), A. Starker Leopold, professor of zoology.  
University of California (Davis), Robert Leonard, project leader.  
Ventura County Flood Control District, J. B. Quinn, deputy director.

Assistance in the form of funds was given by the Bureau of Reclamation, and the National Park Service, U.S. Department of the Interior; the Department of Housing and Urban Development; the Corps of Engineers, U.S. Army, and the Soil Conservation Service, and the Forest Service, U.S. Department of Agriculture.

Agencies furnishing assistance were:

Alameda County Water District  
Los Angeles (City), Department of Water and Power  
Los Angeles County Flood Control District  
Los Angeles Municipal Water District  
Metropolitan Water District of Southern California  
Pacific Gas and Electric Company  
Sierra Pacific Power Company  
Southern California Edison Company

#### DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System of units (SI) on page 25.

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 metres.

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

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, 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, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that may be 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. In the laboratory

these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at  $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$  on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at  $44.5^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$  on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded 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. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at  $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$  on M-enterococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Benthic organisms (invertebrates) are animals inhabiting the bottom of an aquatic environment. They include a number of different types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are frequently used as indicators of environmental quality because many have restricted mobility during their aquatic life phase, as well as a relatively long lifespan which allows for response to prevailing and changing water-quality conditions. Many benthic organisms inhabit specific types of environments which, if changed, result in changes in the composition of the benthic community.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per litre, used for the decomposition of organic matter by microorganisms, such as bacteria.

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

Ash weight is the weight or amount of residue present after the residue from the dry weight determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash weight values of zooplankton and pnytoplankton are expressed as g/m<sup>3</sup> (grams per cubic metre), and periphyton and benthic organisms in g/m<sup>2</sup> (grams per square metre).

Dry weight refers to the weight of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the weight remains unchanged. This weight represents the total organic matter, ash and sediment, in the sample. Dry weight values are expressed in the same units as ash weight.

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

Cfs-day 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 metres. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

Cubic foot per second (CFS, cfs), 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 metres per second.

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

Mean discharge is the arithmetic average of discharge during a specific period.

Instantaneous discharge is the discharge at a given time.

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 therein 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.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ( $\text{CaCO}_3$ ).

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 litre ( $\mu\text{g/l}$ ,  $\text{UG/L}$ ) is a unit expressing the concentration of chemical constituents in solution as weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Milligrams per litre ( $\text{mg/l}$ ,  $\text{MG/L}$ ) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of the gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, p. 7. Concentration of suspended sediment also is expressed in  $\text{mg/l}$ , and is based on the weight of sediment per litre of water-sediment mixture.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

Ion	Multi- ply by	Ion	Multi- ply by
Aluminum (Al <sup>+3</sup> )*....	0.11119	Iodide (I <sup>-1</sup> ).....	0.00788
Ammonia as NH <sub>4</sub> <sup>+1</sup> ....	.05544	Iron (Fe <sup>+3</sup> )*.....	.05372
Barium (Ba <sup>+2</sup> ).....	.01456	Lead (Pb <sup>+2</sup> )*.....	.00965
Bicarbonate (HCO <sub>3</sub> <sup>-1</sup> )	.01639	Lithium (Li <sup>+1</sup> )*....	.14411
Bromide (Br <sup>-1</sup> ).....	.01251	Magnesium (Mg <sup>+2</sup> )..	.08226
Calcium (Ca <sup>+2</sup> ).....	.04990	Manganese (Mn <sup>+2</sup> )*.	.03640
Carbonate (CO <sub>3</sub> <sup>-2</sup> )..	.03333	Nickel (Ni <sup>+2</sup> )*....	.03406
Chloride (Cl <sup>-1</sup> )....	.02821	Nitrate (NO <sub>3</sub> <sup>-1</sup> )...	.01613
Chromium (Cr <sup>+6</sup> )*....	.11539	Nitrite (NO <sub>2</sub> <sup>-1</sup> )...	.02174
Cobalt (Co <sup>+2</sup> )*.....	.03394	Phosphate (PO <sub>4</sub> <sup>-3</sup> )..	.03159
Copper (Cu <sup>+2</sup> )*.....	.03148	Potassium (K <sup>+1</sup> )...	.02557
Cyanide (CN <sup>-1</sup> ).....	.03844	Sodium (Na <sup>+1</sup> ).....	.04350
Fluoride (F <sup>-1</sup> ).....	.05264	Strontium (Sr <sup>+2</sup> )*.	.02283
Hydrogen (H <sup>+1</sup> ).....	.99209	Sulfate (SO <sub>4</sub> <sup>-2</sup> )...	.02082
Hydroxide (OH <sup>-1</sup> )...	.05880	Zinc (Zn <sup>+2</sup> )*.....	.03060

\*Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per litre to parts per million\*  
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Di- vide by	Range of concentration in 1000 mg/l	Di- vide by	Range of concentration in 1000 mg/l	Di- vide by	Range of concentration in 1000 mg/l	Di- vide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170- -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

\*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.



Sediment concentrations may be converted to parts per million by using the factors in table 2, p. 7.

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

Cells/volume refers to the number of cells of any organism which is 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 volume, usually millilitres (ml) or litres (l).

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square metres (m<sup>2</sup>), acres, or hectares. 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 millilitres (ml) or litres (l). Number 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.

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in chemically dispersed distilled water.

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:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.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.

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 microorganisms attached to and growing upon solid surfaces. While consisting primarily of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

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

Blue-green algae are a group of 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 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 ml of sample.

Plankton is the floating (or weakly swimming) animal or plant life in a body of water consisting chiefly of minute plants (as diatoms and blue-green algae) and of minute animals (as protozoan, entomostracans, and various larvae).

Sediment is solid material that originates mostly from disintegrated rocks and is transformed 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 the 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 quantity of sediment transported in a stream by rolling, sliding, or skipping along the bed and very close to it; that is, within the bed layer.

Bed material is the sediment mixture of which the moving streambed is composed.

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 discharge 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 weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total-sediment discharge or total sediment load is the sum of suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

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 litre of water-sediment mixture (mg/l).

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

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 derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial 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.....	Emphemeroptera
Family.....	Ephemeridae
Genus.....	<u>Hexagenia</u>
Species.....	<u>Hexagenia limbata</u>

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 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 water year.

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

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Turbidity of a sample is the reduction of transparency due to the presence of particulate matter. In this report it is expressed in Jackson turbidity units (JTU).

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.

Weight-percent-organic-matter is the approximate percentage of organic matter, by weight, in the sample. Values were determined by a method modified from one described by Anderson (1963).

#### SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and the general distribution of water in the principal river basins of the conterminous United States and Alaska.

Irrigation network stations are water-quality stations located at or near certain streamflow gaging stations west of the main stem of the Mississippi River. Data collected at these stations are used to evaluate the chemical quality of surface waters used for irrigation and the changes resulting from the drainage of irrigated lands. Prior to water year 1966, the data for these stations were published in the annual water-supply paper series, "Quality of Surface Water for Irrigation, Western States."

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides includes insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's, there have been almost 60,000 pesticide formulations registered, each containing at least one of the approximately 800 different basic pesticide compounds. The United States annually produces about 1 billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast-acting and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected

twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in ug/l (micrograms per litre), radium as radium-226 in PC/L, (pCi/l), picocuries per litre), gross beta radiation as equivalent strontium/yttrium-90 or cesium-137 in PC/L, and gross alpha radiation as micrograms of uranium equivalent per litre (ug/l). Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized) sediments in the samples are also determined.

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

#### DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.



As an added means of identification, each water-quality station, gaging station, and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record and continuous-record stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 11264500 which appears just to left of the station name includes the 2-digit number "11" plus the 6-digit downstream order number "264500". In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are Part 9 (Colorado River basin), Part 10 (The Great Basin), and Part 11 (Pacific Coast basins). All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

Downstream order station numbers are not assigned to sites where only random water-quality samples are taken. These sites are classified as water-quality miscellaneous sites, and as a means of location and identification a 15-digit number consisting of the latitude and longitude coordinates to the nearest second for each site plus a 2-digit sequential number are assigned. For example, the station number for a water-quality miscellaneous site with a lat 42°28'47", long 071°41'04" would be 422847071410401.

#### WELL NUMBER

The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes and seconds of longitude, and the last 2 digits is a sequential number for wells within a 1-second grid. The system provides the geographic location of the well and a unique number for each well. In the event that the latitude-longitude coordinates for a surface-water miscellaneous sampling site and a well site are the same, the

sequential numbers "01", "02", etc. are used for differentiation within the same sequence. See figure 2 below.

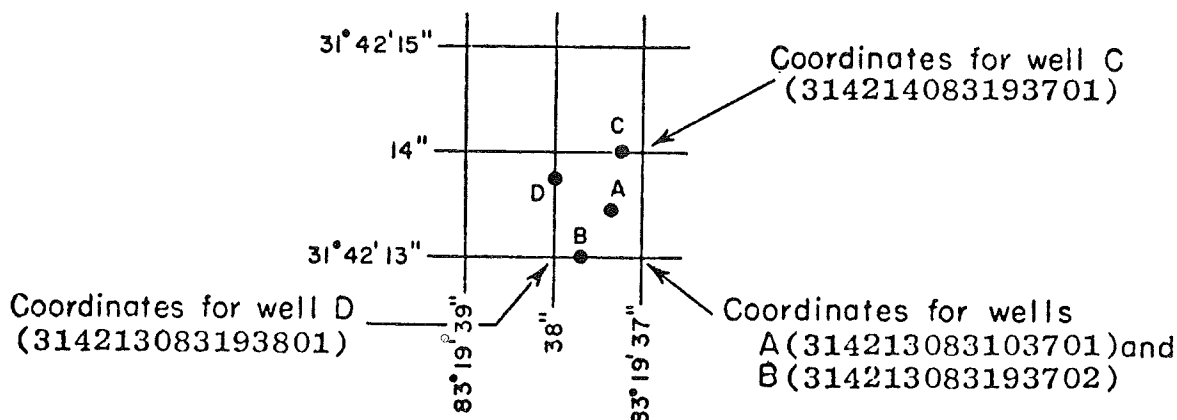


Figure 2.--System for numbering wells  
(latitude and longitude)

#### COLLECTION AND EXAMINATION OF DATA

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in California have been released in the report, "Water Resources Data for California, 1973, Part 1. Surface Water Records, Volumes 1 and 2."

Ground-water well samples included in this report are only a few of the total water-quality samples taken, and are for special baseline monitoring programs.

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water sampling stations, no descriptive statements are given. However, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of ground water.

Water-quality information is presented for chemical quality, biological, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological, indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder (thermograph) furnishes information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (F). In October 1967, the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperature reported in degrees Celsius may be converted to degrees Fahrenheit by using the table on p. 19.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definitions of Terms," p. 3 and table for converting English units to SI units, p. 25.

#### Biological and microbiological variables

The methods of collecting and analyzing samples for biological and microbiological variables are described in Slack and others (1973).

### Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, and Goerlitz and Brown. The collection and analysis of aquatic, biological and microbiological samples are described by Slack and others.

Chemical-quality data published in this report are considered to be the most representative values 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 the 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 noncontinuous-digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon 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 U.S. Geological Survey district office at the address given on the back of the title page of this report.

Ground-water quality normally does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately defines ground-water quality at a given site..

### Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water stations. For daily stations, the water temperatures are taken at about the same time each day when sample is collected. 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 continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and month.

Table 3.--Degrees Celsius ( $^{\circ}\text{C}$ ) to degrees Fahrenheit ( $^{\circ}\text{F}$ )  
(Temperature reported to nearest  $0.5^{\circ}\text{C}$ )

$^{\circ}\text{C}$	$^{\circ}\text{F}$	$^{\circ}\text{C}$	$^{\circ}\text{F}$	$^{\circ}\text{C}$	$^{\circ}\text{F}$	$^{\circ}\text{C}$	$^{\circ}\text{F}$	$^{\circ}\text{C}$	$^{\circ}\text{F}$
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

### 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 sections.

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 sub-divided 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 sub-divided day method. For periods when no samples were collected, daily loads 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 observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

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

### Turbidity

At some stations samples for the determination of turbidity were collected at the same frequency as samples collected for determination of suspended sediment. Turbidity, measured in Jackson turbidity units, is shown in relation to the concentration of sediment in the simultaneously collected sample.

Measured values of turbidity are significantly influenced by the type of instrument employed. Turbidity values published in California reports prior to July 1966, were determined by means of a Hellige Turbidimeter and are not directly comparable with those published subsequently. Data published in ppm (parts per million) as  $\text{SiO}_2$  from July 1966 to September 1968, and in mg/l (milligrams per litre) as  $\text{SiO}_2$  from October 1968 to September 1970, were measured with a model 1860 Hach Turbidimeter which is optically similar to the model 2100 Hach Turbidimeter used since October 1970. Scales are available for those instruments providing a readout in either mg/l or in JTU. Hence,

conversion of data for the period July 1966 through September 1970, from ppm or mg/l of silica to JTU can be made by use of table 4 below:

Table 4.--Conversion of turbidity values, measured by Hach Turbidimeters Model 1860 or 2100 from ppm or mg/l of silica to Jackson turbidity units.

Turbidity in ppm or mg/l	Turbidity in JTU
5	3
10	6
50	30
100	55
200	110
500	240
1,000	440

#### WATER-SUPPLY PAPERS

Table 5 below shows the numbers of the annual series of Geological Survey water-supply papers that give information on quality of surface waters in California. Data for the Colorado River basin are given in part 9, the Great Basin in part 10, and Pacific slope basins in California in part 11.

Table 5.--Water-supply papers containing records for parts 9-11, water years 1941-70

Water year	Water-supply paper	Water year	Water-supply paper	Water year	Water-supply paper
1941	942	1951	1200	1961	1885
1942	950	1952	1253	1962	1945
1943	970	1953	1293	1963	1951
1944	1022	1954	1353	1964	1958
1945	1030	1955	1403	1965	1965
1946	1050	1956	1453	1966	1995
1947	1102	1957	1523	1967	2015
1948	1133	1958	1574	1968	2098, 2099
1949	1163	1959	1645	1969	2148, 2149
1950	1189	1960	1745	1970	2158, 2159

## SELECTED REFERENCES

- American Public Health Association, and others, 1971, Standard methods for the examination of water and wastewater, 13th ed.: Am. Public Health Assoc., New York, 874 p.
- Anderson, J. U., 1963, Improved pretreatment for mineralogical analysis of samples containing organic matter, in Tenth national conference on clay and clay minerals: New York, MacMillan and Co., p. 380-388.
- Barker, F. B., and Johnson, J. O., 1964, Determination of radium in water: U.S. Geol. Survey Water-Supply Paper 1696-B, 29 p.
- Barker, F. B., and others, 1965, Determination of uranium in natural water: U.S. Geol. Survey Water-Supply Paper 1696-C, 25 p.
- Barker, F. B., and Robinson, B. P., 1963, Determination of beta activity in water: U.S. Geol. Survey Water-Supply Paper 1969-A, 32 p.
- Barnett, P. R., and Mallory, Jr., E.C., 1971, Determination of minor elements in water by emission spectroscopy: U.S. Geol. Survey Techniques of Water Resources Inv., book 5, chap. A2, 31 p.
- Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.
- Colby B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.
- Colby, B.R., and Hembree, C. H., 1955, Computations of total sediment discharge, Niobrara River near Cody, Nebraska: U.S. Geol. Survey Water-Supply Paper 1357, 187 p.
- Colby, B. R., and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 p.



- Goerlitz, D. F., and Brown, Eugene, 1972, Methods for analysis of organic substances in water: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5 Chap. A3, 40 p.
- Goerlitz, D. F., Lamar, W. L., 1967, Determination of phenoxy acid herbicides in water by electron-capture and micro-coulometric gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-C, 21 p.
- Guy, H. P., 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.
- , 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 57 p.
- Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.
- Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water, Revised edition: U.S. Geological Survey Water-Supply Paper 1473, 363 p.
- Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.
- Porterfield, George, 1972, Computations of fluvial-sediment discharge: U.S. Geol. Survey Techniques of Water Resources Inv., book 3, chap. C3, 66 p.
- Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle sizes of coarse sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C3, 33 p.
- Rose, Arthur and Elizabeth, 1966, The condensed chemical dictionary: Reinhold Pub. Corp., New York, 7th ed., 1. 257.

Slack, K. V., and others, 1973, Methods for collection and analysis of aquatic, biological and microbiological samples: U.S. Geol. Survey Techniques of Water Resources Inv., book 5, chap. A4, 165 p.

U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams. Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.

\_\_\_\_\_, 1963, Determinations of fluvial sediment discharge: Rept. 14, 151 p.

Table 6.--Factors for converting English units to International System units (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
<i>Length</i>		
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
<i>Area</i>		
acres	4047	square metres (m <sup>2</sup> )
	.4047	*hectares (ha)
	.4047	square hectometres (hm <sup>2</sup> )
	.004047	square kilometres (km <sup>2</sup> )
square miles (mi <sup>2</sup> )	2.590	square kilometres (km <sup>2</sup> )
<i>Volume</i>		
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm <sup>3</sup> )
	3.785x10 <sup>-3</sup>	cubic metres (m <sup>3</sup> )
million gallons (10 <sup>6</sup> gal)	3785	cubic metres (m <sup>3</sup> )
	3.785x10 <sup>-3</sup>	cubic hectometres (hm <sup>3</sup> )
cubic feet (ft <sup>3</sup> )	28.32	cubic decimetres (dm <sup>3</sup> )
	.02832	cubic metres (m <sup>3</sup> )
cfs-days [(ft <sup>3</sup> /s) · d]	2447	cubic metres (m <sup>3</sup> )
	2.447x10 <sup>-3</sup>	cubic hectometres (hm <sup>3</sup> )
acre-feet (acre-ft)	1233	cubic metres (m <sup>3</sup> )
	1.233x10 <sup>-3</sup>	cubic hectometres (hm <sup>3</sup> )
	1.233x10 <sup>-6</sup>	cubic kilometres (km <sup>3</sup> )
<i>Flow</i>		
cubic feet per second (ft <sup>3</sup> /s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm <sup>3</sup> /s)
	.02832	cubic metres per second (m <sup>3</sup> /s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm <sup>3</sup> /s)
	6.309x10 <sup>-5</sup>	cubic metres per second (m <sup>3</sup> /s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm <sup>3</sup> /s)
	.04381	cubic metres per second (m <sup>3</sup> /s)
<i>Mass</i>		
tons (short)	.9072	tonnes (t)

\*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

\*\*The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

## WATER QUALITY DATA

## COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, ARIZ.-NEV.  
(Irrigation network station)

LOCATION.--Lat 36°00'55", long 114°44'16", in NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec.3, T.30 N., R.23 W., Gila and Salt River meridian, Mohave County, Ariz., or in SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.29, T.22 S., R.65 E., Mount Diablo meridian, Clark County, Nev., 0.3 mile downstream from gaging station in powerhouse at downstream side of Hoover Dam.

DRAINAGE AREA.--167,800 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1939 to September 1973.

Water temperatures: October 1941 to September 1965.

Published as "below Boulder Dam" in 1940-45.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)
OCT. 17...	1100	16420	9.4	10	88	29	91	4.8	164
NOV. 29...	1545	6240	9.5	20	90	30	100	4.7	170
JAN. 16...	0915	15450	9.2	9	85	31	110	5.2	161
FEB. 27...	1550	8040	9.4	9	85	29	110	6.1	168
MAR. 22...	1355	13590	9.6	9	86	28	110	5.1	161
APR. 17...	1130	16250	9.2	9	86	29	100	4.7	165
JUNE 18...	1515	21320	9.3	9	81	29	100	4.9	163
JULY 24...	1010	19920	9.4	10	86	29	110	5.0	160
AUG. 21...	1305	21020	9.4	10	86	29	100	5.2	131
SEP. 18...	1045	18070	9.3	10	85	29	100	5.6	166

DATE	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (NO <sub>3</sub> ) (MG/L)	DIS- SOLVED NITRITE (NO <sub>2</sub> ) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHATE (PO <sub>4</sub> ) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT. 17...	0	300	86	.4	--	--	.63	.00	756
NOV. 29...	0	310	95	.4	2.7	.00	.62	.00	772
JAN. 16...	0	310	92	.6	2.3	.00	.52	.03	792
FEB. 27...	0	330	97	.6	2.2	.00	.49	.09	748
MAR. 22...	0	300	92	.4	2.3	.00	.51	.03	775
APR. 17...	0	300	87	.4	2.3	.00	.52	.06	742
JUNE 18...	0	300	89	.4	1.9	.00	.43	.06	725
JULY 24...	0	300	85	.4	2.0	.03	.47	.03	728
AUG. 21...	0	320	90	.2	2.7	.00	.60	.00	743
SEP. 18...	0	300	88	.3	1.9	.00	.43	.03	718

COLORADO RIVER MAIN STEM

27

09421500 COLORADO RIVER BELOW HOOVER DAM, ARIZ.--NEV.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED BORON (B) (UG/L)
OCT. 17...	692	1.03	340	200	2.2	1130	7.8	12.0	150
NOV. 29...	729	1.05	350	210	2.3	1090	7.4	12.0	140
JAN. 16...	727	1.08	340	210	2.6	1110	8.3	12.0	150
FEB. 27...	755	1.02	330	190	2.6	1140	7.7	12.0	160
MAR. 22...	715	1.05	330	200	2.6	1130	7.9	--	120
APR. 17...	702	1.01	330	200	2.4	1100	7.9	11.5	130
JUNE 18...	698	.99	320	190	2.4	1080	6.7	21.0	120
JULY 24...	706	.99	330	200	2.6	1080	7.9	11.5	150
AUG. 21...	707	1.01	330	230	2.4	1080	8.0	11.0	140
SEP. 18...	701	.98	330	200	2.4	1100	7.9	12.0	150

FIELD DETERMINATIONS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	AIR TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT. 17...	1100	16400	1120	7.7	12.0	22.5	6.4
JAN. 16...	0915	15400	1200	7.9	12.0	9.0	9.3
APR. 17...	1130	16200	1120	7.6	11.5	23.0	8.5
JULY 24...	1010	19900	1280	7.8	11.5	35.0	8.7

## COLORADO RIVER MAIN STEM

## 09424150 COLORADO RIVER AQUEDUCT NEAR PARKER DAM, ARIZ.-CALIF.

LOCATION.--Lat 34°18'58", long 114°09'23", in NW¼SW¼ sec.28, T.3 N., R.27 E., San Bernardino meridian, in California, San Bernardino County, at gaging station at intake pumping plant of Metropolitan Water District of Southern California on Lake Havasu, 1.8 miles upstream from Parker Dam, and 154 miles downstream from Hoover Dam.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1973.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Figures of discharge furnished by Metropolitan Water District of Southern California.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 08...	1680	6.8	81	32	110	5.0	139	1	116	309	96
NOV. 08...	1810	9.2	83	32	107	5.0	150	0	123	306	95
DEC. 05...	--	8.9	84	32	106	5.0	153	0	125	312	96
JAN. 08...	1730	7.8	83	32	111	4.0	142	4	123	316	96
FEB. 07...	1820	8.5	86	31	111	4.0	153	0	125	312	95
APR. 08...	1540	7.8	86	32	106	5.0	155	1	129	306	93
MAY 08...	1780	7.8	86	31	107	5.0	156	0	128	308	90
JUNE 06...	1780	7.6	86	31	107	4.0	156	2	131	305	91
JULY 08...	1780	6.8	79	31	107	5.0	127	4	111	307	92
AUG. 08...	1770	8.9	78	30	106	4.0	126	2	107	303	94
21...	1760	10	77	31	105	4.0	124	0	102	299	99
SEP. 09...	1740	8.0	75	32	105	4.0	129	0	106	310	92

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHO/S)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)
OCT. 08...	.4	.02	710	.97	332	220	41	2.6	1110	24.0	1
NOV. 08...	.4	.09	713	.97	337	210	40	2.5	1120	18.5	1
DEC. 05...	.4	.16	722	.98	344	220	40	2.5	1140	14.5	1
JAN. 08...	.4	.15	726	.99	339	220	41	2.6	1130	9.0	<1
FEB. 07...	.3	.25	725	.99	342	220	41	2.6	1150	10.5	<1
APR. 08...	.4	.16	715	.97	344	220	40	2.5	1130	16.0	1
MAY 08...	.4	.16	714	.97	342	210	40	2.5	1120	21.0	<1
JUNE 06...	.4	.27	713	.97	342	210	40	2.5	1140	24.0	<1
JULY 08...	.4	.11	696	.95	325	210	41	2.6	1130	26.5	<1
AUG. 08...	.4	.07	690	.94	318	210	42	2.6	1090	27.0	0
21...	.4	.02	688	.94	320	220	41	2.6	1100	27.0	1
SEP. 09...	.4	.02	691	.94	319	210	41	2.6	1090	--	<1

COLORADO RIVER MAIN STEM

29

09427520 COLORADO RIVER BELOW PARKER DAM, ARIZ.-CALIF.

LOCATION.--Lat 34°17'44", long 114°08'22", in NW¼NW¼ sec.3, T.2 N., R.27 E., San Bernardino meridian, in California, San Bernardino County, at gaging station at Parker Dam, 13 miles northeast of Parker, Ariz., and 14 miles upstream from Headgate Rock Dam.

DRAINAGE AREA.--178,800 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1973.

Water temperatures: February 1954 to August 1970.

Prior to October 1968, published as 09428000.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PC- TAS- SIUM (K) (MG/L)
OCT. 01...	0815	9310	8.9	20	87	31	100	5.3
NOV. 05...	1200	9300	8.9	20	79	31	100	4.8
DEC. 03...	1100	4410	8.9	20	88	31	110	5.0
JAN. 07...	1115	8830	8.7	20	86	32	110	5.1
APR. 01...	0845	16160	10	9	82	28	100	5.2
MAY 06...	1130	18200	8.7	20	88	29	110	4.7
JUNE 03...	0900	9000	8.3	9	88	31	110	4.8
AUG. 05...	0910	15900	9.9	0	92	30	110	5.0

DATE	RICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)	DIS- SOLVED NITRATE PLUS (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT. 01...	144	0	310	93	.4	--	--	.26	734
NOV. 05...	159	0	300	94	.4	1.0	.03	.23	714
DEC. 03...	157	0	310	96	.4	1.0	.03	.23	738
JAN. 07...	157	0	320	98	.4	1.5	.00	.34	734
APR. 01...	158	0	290	87	.4	1.8	.00	.41	662
MAY 06...	162	0	310	96	.5	1.5	.10	.36	730
JUNE 03...	168	0	310	91	.5	1.5	.16	.38	700
AUG. 05...	177	0	320	93	.3	4.4	.00	1.0	732

## COLORADO RIVER MAIN STEM

09427520 COLORADO RIVER BELOW PARKER DAM, ARIZ.-CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED BORON (B) (UG/L)
OCT. 01...	708	1.00	340	230	2.3	1140	7.5	160
NOV. 05...	698	.97	320	190	2.4	1120	7.6	140
DEC. 03...	729	1.00	350	220	2.6	1150	7.4	160
JAN. 07...	741	1.00	350	220	2.6	1150	8.0	150
APR. 01...	684	.90	320	190	2.4	1060	8.1	170
MAY 06...	730	.99	340	210	2.6	1140	7.6	150
JUNE 03...	730	.95	350	210	2.6	1110	7.9	150
AUG. 05...	752	1.00	350	210	2.5	1140	7.6	50

## FIELD DETERMINATIONS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	AIR TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)
OCT. 18...	1115	--	1030	7.7	22.0	18.0	7.8	1
NOV. 15...	1100	4580	1110	7.6	16.5	19.0	8.1	1
DEC. 13...	1135	4550	1190	8.2	11.0	7.5	9.8	1
JAN. 17...	1100	4610	1220	8.1	9.0	17.0	10.5	1
FEB. 13...	1130	9090	1190	8.0	10.0	12.5	10.3	1
MAR. 20...	1045	13200	1120	7.9	13.5	17.0	9.6	2
MAY 15...	1155	14200	1140	8.1	19.5	35.0	8.4	1
JUNE 19...	1200	14400	1120	8.1	24.0	35.0	8.1	1
JULY 25...	1025	18400	1100	7.7	24.5	38.0	7.1	1
AUG. 22...	1030	13700	1080	8.0	24.0	34.0	7.6	15
SEP. 18...	1130	13700	1080	7.8	23.0	36.5	7.0	1



## COLORADO RIVER MAIN STEM

31

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.

(Irrigation network and pesticide station)

LOCATION.--Lat 32°52'59", long 114°27'55", in NW¼SW¼ sec.9, T.15 S., R.24 E., San Bernardino meridian, Imperial County, Calif., above trash racks at All-American Canal headworks at west end of Imperial Dam, 5 miles upstream from Laguna Dam, 15 miles northeast of Yuma, Ariz., 90 miles downstream from Palo Verde Dam, and 147 miles downstream from Parker Dam.

DRAINAGE AREA.--184,600 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1973. Prior to October 1971, published as sta 09429500, Colorado River at Imperial Dam, Ariz.-Calif.

EXTREMES.--1972-73:

Specific conductance: Maximum daily, 1,730 micromhos Nov. 28; minimum daily, 1,160 micromhos Mar. 26, 27.

Period of record:

Specific conductance: Maximum daily, 1,880 micromhos Nov. 21, 1969; minimum daily, 1,160 micromhos Mar. 26, 27, 1973.

REMARKS.--Stream discharges reported with analyses represent total flow reaching Imperial Dam. Daily specific conductance record furnished by Bureau of Reclamation. Since January 1971, daily specific conductance measurements have been made using a composite of four water samples taken at 6-hour intervals. Composites of four water samples per day are analyzed for chemical constituents.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
OCT.									
11...	--	3650	13	10	100	35	180	5.7	203
18...	--	3560	14	20	99	36	190	5.9	200
25...	--	3390	15	40	110	36	190	6.0	209
NOV.									
01...	--	5430	12	20	93	34	160	5.3	188
08...	--	6330	11	10	93	35	150	5.6	177
22...	--	3330	18	9	110	34	180	6.1	203
DEC.									
06...	--	6070	13	20	100	32	160	5.3	183
13...	--	6670	11	9	93	33	160	5.1	177
20...	--	6080	14	9	95	34	170	5.4	183
JAN.									
03...	--	7210	11	9	96	33	150	5.3	179
10...	--	7220	10	9	92	33	150	5.7	177
21...	--	4610	12	9	92	34	150	3.8	155
FEB.									
01...	--	6250	11	40	95	34	150	5.6	180
10...	--	5320	11	9	94	33	150	5.3	179
20...	--	5900	11	9	99	33	150	5.3	186
MAR.									
01...	--	6430	11	9	95	32	150	5.1	189
10...	--	8160	9.7	9	89	31	130	5.1	176
20...	--	8630	11	9	90	31	140	5.3	181
30...	--	11440	11	20	92	30	140	5.4	170
APR.									
10...	--	11720	10	9	90	31	120	5.2	172
20...	--	11000	9.3	9	92	32	140	5.8	179
30...	--	10260	9.2	0	96	33	130	5.1	175
MAY									
10...	--	9888	9.2	20	92	33	140	5.3	178
20...	--	8397	9.4	9	96	32	140	5.3	181
JUNE									
01...	--	8290	10	9	95	33	150	5.2	183
11...	--	9010	9.6	9	90	33	140	5.2	182
20...	--	8650	9.7	9	94	32	130	5.3	182
30...	--	9410	9.9	10	94	33	130	5.3	176
JULY									
09...	--	10390	8.0	--	91	32	135	6.3	174
12...	--	10480	8.0	--	92	32	135	6.8	168
16...	--	10470	9.0	--	92	32	135	6.8	168
19...	--	10880	8.0	--	88	33	130	6.6	164
23...	--	10900	8.0	--	84	35	130	6.4	164
26...	--	11010	8.0	--	89	34	135	6.1	166
30...	--	10730	10	20	87	32	130	4.6	166
AUG.									
10...	--	10240	13	10	91	33	170	5.3	168
20...	--	8910	11	20	89	32	140	5.7	138
SEP.									
03...	--	8740	8.0	--	87	36	140	6.4	172
10...	--	9180	8.0	--	89	34	140	6.4	172
17...	--	9180	7.0	--	87	35	140	6.1	172
24...	--	8720	7.0	--	86	34	135	6.8	164

## COLORADO RIVER MAIN STEM

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.									
11...	0	400	170	.6	--	--	.40	.06	1020
18...	0	400	180	.7	--	--	.10	.00	1040
25...	0	440	180	.7	--	--	.15	.03	1070
NOV.									
01...	0	350	140	.6	.90	.00	.21	.06	916
08...	0	360	140	.3	1.2	.00	.26	.03	866
22...	0	390	170	.7	8.0	.00	1.8	.18	1040
DEC.									
06...	0	380	150	.6	1.2	.00	.26	.03	914
13...	0	350	130	.4	1.3	.00	.29	.00	856
20...	0	360	140	.4	1.2	.00	.28	.00	908
JAN.									
03...	0	350	130	.6	1.5	.00	.33	.03	888
10...	0	360	130	.5	1.4	.00	.32	.03	890
21...	0	380	150	.5	1.2	.00	.28	.00	936
FEB.									
01...	0	350	140	.4	1.5	.00	.34	.00	880
10...	0	370	140	.5	1.5	.00	.33	.03	894
20...	0	370	140	.5	1.3	.00	.29	.03	908
MAR.									
01...	0	370	140	.7	1.2	.03	.27	.03	858
10...	0	320	120	.5	1.4	.00	.32	.03	792
20...	0	350	130	.4	1.2	.00	.27	.00	828
30...	0	320	120	.5	1.4	.00	.32	.00	798
APR.									
10...	0	320	110	.5	1.0	.00	.22	.00	780
20...	0	340	120	.4	1.2	.00	.27	.00	816
30...	0	360	120	.5	1.1	.00	.25	.00	826
MAY									
10...	0	340	120	.5	.20	.03	.06	.00	846
20...	0	340	130	.3	1.0	.00	.23	.00	848
JUNE									
01...	0	350	140	.5	.40	.00	.08	.03	866
11...	0	340	120	.4	.90	.00	.20	.00	822
20...	0	340	120	.5	.90	.00	.21	.00	812
30...	0	350	120	.5	.70	.00	.15	.00	808
JULY									
09...	0	335	118	.6	--	--	--	--	794
12...	0	345	118	.4	--	--	--	--	812
16...	0	340	120	.5	--	--	--	--	818
19...	0	335	115	.5	--	--	--	--	790
23...	0	335	114	.7	--	--	--	--	792
26...	0	340	118	.7	--	--	--	--	800
30...	0	330	120	.6	.90	.00	.21	.06	794
AUG.									
10...	0	360	130	.5	.60	.00	.13	.25	828
20...	0	360	130	.2	.75	.00	.17	.03	800
SEP.									
03...	0	345	127	.4	--	--	--	--	826
10...	0	340	127	.4	--	--	--	--	822
17...	0	340	125	.3	--	--	--	--	818
24...	0	340	118	.6	--	--	--	--	812

## COLORADO RIVER MAIN STEM

33

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED BORON (B) (UG/L)
OCT.									
11...	1010	1.39	390	230	3.9	1560	7.5	--	230
18...	1020	1.41	400	230	4.2	1610	7.8	--	260
25...	1080	1.46	420	250	4.0	1660	7.9	--	270
NOV.									
01...	889	1.25	370	220	3.6	1410	7.7	--	220
08...	885	1.18	380	230	3.4	1380	8.0	--	200
22...	1030	1.41	410	250	3.8	1560	7.1	--	220
DEC.									
06...	934	1.24	380	230	3.6	1430	7.6	--	210
13...	872	1.16	370	220	3.6	1340	8.3	--	200
20...	911	1.23	380	230	3.8	1410	8.2	--	230
JAN.									
03...	867	1.21	380	230	3.4	1350	8.1	--	200
10...	871	1.21	370	220	3.4	1350	8.3	--	220
21...	901	1.27	370	240	3.4	1450	7.5	--	250
FEB.									
01...	878	1.20	380	230	3.4	1380	8.0	--	210
10...	895	1.22	370	220	3.4	1380	8.1	--	210
20...	903	1.23	380	230	3.3	1390	8.3	--	190
MAR.									
01...	900	1.17	370	210	3.4	1370	8.1	--	210
10...	795	1.08	350	210	3.0	1250	8.2	--	190
20...	850	1.13	350	200	3.2	1300	8.1	--	190
30...	806	1.09	350	210	3.2	1220	8.1	--	150
APR.									
10...	774	1.06	350	210	2.8	1210	8.0	--	170
20...	830	1.11	360	210	3.2	1280	8.0	19.0	190
30...	842	1.12	380	230	2.9	1290	8.2	--	180
MAY									
10...	828	1.15	370	220	3.2	1300	8.0	--	180
20...	844	1.15	370	220	3.2	1320	7.7	--	190
JUNE									
01...	875	1.18	370	220	3.4	1350	8.0	--	150
11...	830	1.12	360	210	3.2	1290	8.1	--	190
20...	823	1.10	370	220	3.0	1300	7.8	--	180
30...	830	1.10	370	230	2.9	1300	8.1	--	190
JULY									
09...	813	1.08	360	218	3.1	1270	8.0	--	--
12...	821	1.10	360	222	3.1	1280	7.9	--	--
16...	819	1.11	360	222	3.1	1280	8.0	--	--
19...	798	1.07	355	220	3.0	1250	8.0	--	--
23...	795	1.08	355	220	3.0	1250	8.1	--	--
26...	815	1.09	360	224	3.1	1270	8.0	--	--
30...	797	1.08	350	210	3.0	1260	8.2	--	160
AUG.									
10...	887	1.13	360	230	3.9	1300	8.2	--	220
20...	837	1.09	350	240	3.2	1260	8.1	--	170
SEP.									
03...	836	1.12	365	224	3.2	1310	8.2	--	--
10...	831	1.12	360	219	3.2	1300	8.0	--	--
17...	826	1.11	360	219	3.2	1300	8.1	--	--
24...	809	1.10	355	220	3.1	1270	8.1	--	--

## 09429490 COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT.									
18...	1110	--	--	--	23.0	--	--	160	--
19...	1500	2690	1560	8.2	22.5	23.5	8.8	--	--
NOV.									
15...	1115	--	--	--	15.5	--	--	3	--
16...	1430	5330	1340	8.4	1.8	22.5	8.1	--	--
DEC.									
13...	1145	--	--	--	9.0	--	--	28	--
14...	1410	6880	1450	8.2	9.0	14.0	9.3	--	--
JAN.									
17...	1350	--	--	--	12.5	--	--	9	--
18...	1540	5330	1480	8.2	13.0	20.0	9.2	--	--
FEB.									
13...	1200	--	--	--	12.5	--	--	17	--
14...	1410	4970	1470	8.2	13.0	20.0	10.2	--	--
MAR.									
20...	0845	--	--	--	16.5	--	--	14	--
21...	1430	9090	1250	8.2	16.0	18.5	8.2	--	--
APR.									
18...	0910	--	--	--	18.0	--	--	20	--
19...	1530	11900	1280	8.0	19.5	25.0	9.3	--	--
MAY									
15...	0915	--	--	--	23.0	--	--	20	--
16...	1300	9380	1180	8.1	25.0	38.0	8.4	--	--
JUNE									
19...	1155	--	--	--	26.0	--	--	12	--
20...	1430	8420	1380	8.2	26.0	42.0	8.8	--	--
JULY									
25...	1145	--	--	--	28.0	--	--	28	--
26...	1610	10900	1320	8.1	29.0	37.0	8.6	--	--
AUG.									
22...	0925	9440	--	--	28.5	--	--	45	160
23...	1400	9840	1380	7.8	30.0	42.0	7.6	--	--
SEP.									
18...	0950	9370	--	--	25.5	--	--	29	48
19...	1440	9630	1310	8.1	25.5	35.0	8.3	--	--

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

[illegible]

09429490, COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CHLOR- DANE (UG/L)	DI- AZINON (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	PCB / (UG/L)	2,4-D (UG/L)	SILVEX (UG/L)	2,4,5-T (UG/L)	TOX- APHENE (UG/L)
OCT. 19...	.0	--	--	--	--	.0	.00	.00	.00	--
NOV. 16...	.0	--	--	--	--	.0	.00	.00	.00	--
DEC. 14...	.0	--	--	--	--	.0	.00	.00	.00	0
JAN. 18...	.0	.00	.00	.00	.00	.0	.00	.00	.00	0
FEB. 14...	.0	.00	.00	.00	.00	.0	--	--	--	0
MAR. 21...	.0	.00	.00	.00	.00	.0	.00	.00	.00	0
APR. 19...	.0	.00	.00	.00	.00	.0	.00	.00	.00	0
MAY 16...	.0	.01	.00	.00	.00	.0	.00	.00	.00	0
JUNE 20...	.0	.00	.00	.00	.00	.0	.00	.00	.00	0
JULY 26...	.0	.00	.00	.00	.00	.0	.00	.00	.00	0
AUG. 23...	.0	.00	.00	.00	.00	.0	.00	.00	.00	0

## RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS- PENDE D GROSS ALPHA AS U-NAT. (PC/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE D GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDE D GROSS BETA AS CS-137 (PC/L)
OCT. 02...	1130	9.3	.2	28	.6	10	3.5
JULY 18...	1210	--	--	12	7.7	9.9	4.7

DATE	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE D GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (PLAN- CHET METHOD) (PC/L)	DIS- SOLVED RA-226 (PLAN- CHET COUNT) (PC/L)	DIS- SOLVED NATURAL URANIUM (U) (UG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT. 02...	9.0	3.1	--	.2	5.4	980	16
JULY 18...	8.6	4.1	.16	--	4.6	880	130

## COLORADO RIVER MAIN STEM

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.--CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1350	1400	1450	1390	1380	1370	1210	1310	1350	1300	1260	1310
2	1350	1400	1440	1340	1360	1340	1210	1290	1360	1250	1250	1320
3	1330	1370	1430	1350	1370	1300	1210	1300	1370	1270	1280	1310
4	1300	1360	1410	1370	1420	1310	1200	1300	1350	1260	1290	1310
5	1320	1360	1400	1340	1350	1270	1230	1330	1340	1290	1300	1290
6	1320	1360	1430	1330	1340	1260	1260	1320	1360	1280	1290	1290
7	1290	1340	1390	1380	1330	1260	1270	1300	1320	1290	1280	1290
8	1260	1340	1360	1340	1340	1260	1200	1310	1350	1280	1300	1300
9	1360	1360	1360	1350	1360	1240	1210	1290	1340	1270	1300	1310
10	1460	1380	1340	1340	1380	1240	1210	1300	1320	1280	1300	1300
11	1550	1400	1340	1320	1380	1270	1230	1320	1290	1290	1300	1290
12	1620	1420	1350	1410	1340	1280	1230	1350	1300	1280	1300	1290
13	1590	1370	1330	1470	1320	1260	1240	1340	1300	1300	1260	1280
14	1590	1330	1360	1480	1390	1280	1270	1310	1290	1300	1260	1290
15	1620	1330	1370	1440	1420	1330	1250	1320	1310	1300	1270	1330
16	1650	1340	1380	1410	1380	1350	1230	1310	1320	1280	1260	1330
17	1560	1400	1380	1410	1400	1370	1270	1330	1310	1280	1270	1300
18	1600	1420	1380	1430	1420	1350	1260	1330	1320	1280	1260	1290
19	1580	1440	1380	1430	1430	1300	1270	1320	1330	1250	1280	1300
20	1500	1480	1400	1470	1390	1300	1280	1320	1300	1270	1280	1300
21	1500	1540	1400	1440	1330	1290	1290	1310	1320	1270	1280	1300
22	1580	1540	1420	1440	1300	1260	1260	1310	1340	1260	1270	1290
23	1630	1540	1450	1420	1340	1260	1280	1330	1340	1250	1290	1300
24	1650	1640	1490	1410	1380	1230	1270	1350	1320	1260	1310	1270
25	1650	1680	1550	1380	1440	1210	1260	1360	1280	1260	1330	1320
26	1600	1650	1600	1380	1480	1160	1280	1350	1280	1270	1350	1320
27	1580	1720	1490	1440	1460	1160	1300	1340	1280	1280	1330	1310
28	1620	1730	1430	1440	1390	1170	1280	1310	1320	1300	1320	1330
29	1640	1680	1430	1410	---	1200	1350	1320	1290	1280	1300	1330
30	1520	1520	1420	1370	---	1220	1290	1340	1300	1260	1310	1330
31	1420	---	1400	1390	---	1220	---	1350	---	1250	1290	---
MONTH	1500	1460	1410	1400	1380	1270	1250	1320	1320	1280	1290	1300

COLORADO RIVER MAIN STEM

37

09429600 COLORADO RIVER BELOW LAGUNA DAM, ARIZ.-CALIF.

LOCATION.--Lat 32°48'44", long 114°30'51", in SE 1/4 sec. 35, T.15 S., R.23 E., San Bernardino meridian, in California, Imperial County, at gaging station on right bank, 1.4 mi downstream from Laguna Dam, 2.8 mi northeast of Bard, Calif., and 10 mi northeast of Yuma, Ariz.

DRAINAGE AREA.--184,700 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: July 1972 to September 1973.

CHEMICAL ANALYSES, JULY TO SEPTEMBER 1972

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CCO <sub>3</sub> ) (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
JULY 17...	0745	345	11	20	96	34	160	5.3	189	0	360	140
AUG. 14...	1000	388	12	20	93	35	160	5.9	179	0	360	150
SEP. 15...	0940	252	12	20	92	33	160	5.1	179	0	350	150

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED PORON (R) (UG/L)
JULY 17...	.5	.19	908	901	1.23	380	220	3.6	1410	8.0	28.0	200
AUG. 14...	.5	.18	906	905	1.23	380	230	3.6	1410	8.0	29.5	210
SEP. 15...	.5	.06	916	891	1.25	370	220	3.6	1390	8.1	26.0	210

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)
OCT. 10...	1050	--	11	30	89	34	160	5.5	177
NOV. 02...	0830	--	14	10	96	36	200	5.2	199
DEC. 04...	0855	--	13	9	99	34	180	5.5	199
JAN. 03...	1320	306	12	9	100	35	190	5.4	197
FEB. 02...	0830	284	12	30	100	33	180	5.6	196
MAR. 02...	1100	437	12	40	99	33	200	5.7	206
APR. 06...	1130	695	11	9	92	31	170	5.9	177
MAY 04...	1300	360	10	9	87	32	150	5.2	182
JUNE 01...	1110	220	12	9	98	34	170	5.2	192
JULY 06...	1150	346	11	0	94	33	140	5.2	175
AUG. 03...	0125	355	11	30	90	32	150	5.1	179
SEP. 07...	1035	318	13	70	93	32	160	5.8	180

## COLORADO RIVER MAIN STEM

09429600 COLORADO RIVER BELOW LAGUNA DAM, ARIZ.-CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)
OCT. 10...	0	370	150	.8	--	--	.17	920	908
NOV. 02...	0	400	200	.8	--	--	.13	1050	1050
DEC. 04...	0	390	160	.6	1.0	.00	.22	968	982
JAN. 03...	0	360	180	.6	1.1	.00	.25	1010	982
FEB. 02...	0	370	180	.6	.90	.00	.20	1010	980
MAR. 02...	0	410	200	1.1	.70	.00	.16	1010	1060
APR. 06...	0	350	180	.7	.80	.00	.18	906	930
MAY 04...	0	340	140	.4	.60	.00	.13	888	856
JUNE 01...	0	380	160	.6	.30	.00	.06	960	955
JULY 06...	0	360	130	.6	.40	.03	.10	846	861
AUG. 03...	0	370	140	.5	.40	.00	.08	852	887
SEP. 07...	0	360	150	.6	.90	.00	.20	828	904

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED BORON (B) (UG/L)
OCT. 10...	1.25	360	220	3.7	1440	8.1	24.0	220
NOV. 02...	1.43	390	220	4.4	1630	8.1	15.0	250
DEC. 04...	1.32	390	220	4.0	1500	8.0	13.5	240
JAN. 03...	1.37	390	230	4.2	1550	8.1	10.5	250
FEB. 02...	1.37	390	220	4.0	1540	8.2	11.0	230
MAR. 02...	1.37	380	210	4.4	1640	8.1	18.0	280
APR. 06...	1.23	360	210	3.9	1450	8.1	18.0	250
MAY 04...	1.21	350	200	3.5	1360	8.1	25.5	200
JUNE 01...	1.31	380	230	3.8	1450	7.9	29.0	190
JULY 06...	1.15	370	230	3.2	1320	8.1	29.0	200
AUG. 03...	1.16	360	210	3.5	1330	8.1	30.0	180
SEP. 07...	1.13	360	220	3.7	1380	8.3	28.0	250



DIVERSIONS AND RETURN FLOWS AT AND BELOW IMPERIAL DAM

39

09522500 GILA GRAVITY MAIN CANAL AT IMPERIAL DAM, ARIZ.-CALIF.

LOCATION.--Lat 32°52'34", long 114°27'18", in SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec.30, T.6 S., R.21 W., Gila and Salt River meridian in Arizona, Yuma County, at gaging station on right bank, 0.6 mile downstream from intake at east end of Imperial Dam.

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1973 (partial-record station).  
Water temperatures: January 1966 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 30.0°C on several days during July and August; minimum, 9.0°C Dec. 30 to Jan. 2 (lower temperatures may have occurred during period of no daily record in January).

Period of record:

Water temperatures: Maximum, 33.0°C Aug. 29-31, 1970; minimum, 7.0°C on several days in 1964 and 1971.

REMARKS.--Temperature probe above water surface Nov. 24 to Dec. 1. No flow Nov. 24-30. Temperature recorder inoperative Oct. 1, Jan. 3-31. Unpublished chemical analyses (partial-record) for water years 1965-67 available from district office in Tucson, Ariz.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED TAS- SIUM (K) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	PICAR- PONATE (HC03) (MG/L)
OCT. 19...	1610	194	12	20	100	37	190	5.1	203
JAN. 03...	1145	886	8.5	9	94	34	150	5.0	178
APR. 03...	0845	--	9.9	9	87	30	120	4.9	171
JULY 18...	1145	1760	9.9	20	90	32	130	5.0	169

DATE	CAR- BONATE (C03) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CCNSTI- TLENTS) (MG/L)
OCT. 19...	0	410	180	.6	--	--	.10	1080	1040
JAN. 03...	0	350	130	.4	1.5	.00	.33	972	863
APR. 03...	0	310	110	.5	1.5	.00	.34	811	760
JULY 18...	0	350	120	.5	.90	.00	.21	869	822

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED PORON (B) (UG/L)
OCT. 19...	1.47	400	240	4.1	1700	8.1	--	240
JAN. 03...	1.32	370	230	3.4	1340	8.2	8.0	180
APR. 03...	1.10	340	200	2.8	1170	7.9	15.5	180
JULY 18...	1.18	360	220	3.0	1280	8.0	28.5	170

## DIVERSIONS AND RETURN FLOWS AT AND BELOW IMPERIAL DAM

09522500 GILA GRAVITY MAIN CANAL AT IMPERIAL DAM, ARIZ.-CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	14.5	14.5	---	---	9.0	9.0	12.0	12.0	17.0	16.0
2	24.0	24.0	14.0	13.5	14.0	12.0	9.0	9.0	12.0	12.0	18.0	17.0
3	24.0	23.0	14.0	14.0	12.0	12.0	---	---	12.0	12.0	18.0	18.0
4	23.0	22.0	14.0	14.0	12.0	12.0	---	---	12.0	12.0	18.0	17.0
5	23.0	23.0	15.0	14.5	12.0	12.0	---	---	12.0	12.0	17.0	15.0
6	23.0	22.0	15.5	15.0	12.0	12.0	---	---	13.0	12.0	15.0	15.0
7	24.0	22.0	15.5	15.5	12.0	12.0	---	---	13.0	13.0	15.0	14.0
8	25.0	21.0	15.5	15.5	12.0	12.0	---	---	13.0	13.0	14.0	14.0
9	24.0	23.0	15.5	15.5	12.0	11.5	---	---	14.0	13.0	14.0	14.0
10	24.0	24.0	15.5	15.5	11.5	11.5	---	---	14.0	14.0	14.0	14.0
11	24.0	24.0	15.5	15.0	11.5	11.5	---	---	14.0	14.0	14.0	14.0
12	24.5	24.0	15.0	14.0	11.5	11.5	---	---	14.0	14.0	14.0	14.0
13	24.5	24.0	14.0	14.0	11.5	11.5	---	---	14.0	14.0	15.0	14.0
14	24.5	24.0	14.0	14.0	11.5	11.5	---	---	14.0	14.0	14.0	14.0
15	25.0	24.5	14.5	14.0	11.5	11.5	---	---	14.0	14.0	14.0	14.0
16	24.5	24.0	14.5	14.5	11.5	11.5	---	---	14.0	14.0	15.0	14.0
17	24.0	23.5	14.5	14.5	11.5	11.5	---	---	14.0	14.0	15.0	15.0
18	23.5	21.5	14.5	14.5	11.5	11.5	---	---	14.0	14.0	16.0	15.0
19	21.5	21.0	14.5	14.5	11.5	11.5	---	---	14.0	14.0	16.0	16.0
20	21.0	20.5	14.5	14.5	11.5	11.0	---	---	14.0	14.0	16.0	16.0
21	20.5	19.5	14.0	14.0	11.0	11.0	---	---	14.0	14.0	16.0	16.0
22	20.0	18.5	14.0	14.0	11.0	11.0	---	---	14.0	12.0	16.0	15.0
23	19.5	19.5	14.0	13.0	11.0	11.0	---	---	12.0	12.0	15.0	14.0
24	19.5	19.5	---	---	11.0	11.0	---	---	14.0	12.0	15.0	14.0
25	19.5	19.5	---	---	---	---	---	---	14.0	14.0	16.0	15.0
26	19.5	19.0	---	---	11.0	10.0	---	---	16.0	14.0	16.0	16.0
27	19.0	19.0	---	---	10.0	10.0	---	---	16.0	16.0	16.0	16.0
28	19.0	18.5	---	---	10.0	10.0	---	---	16.0	16.0	16.0	16.0
29	18.5	18.5	---	---	10.0	9.5	---	---	---	---	16.0	14.0
30	18.5	17.0	---	---	9.5	9.0	---	---	---	---	14.0	14.0
31	17.0	14.5	---	---	9.0	9.0	---	---	---	---	15.0	14.0
MONTH	25.0	14.5	---	---	14.0	9.0	---	---	16.0	12.0	18.0	14.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.0	21.0	20.0	26.0	25.5	29.0	29.0	29.0	29.0	26.0	25.5
2	16.0	16.0	21.0	20.0	26.0	25.0	29.0	29.0	29.0	29.0	26.0	25.5
3	16.0	16.0	21.0	21.0	25.5	25.0	29.5	29.0	30.0	29.0	26.0	25.5
4	16.0	16.0	22.0	21.0	25.5	25.0	30.0	29.0	30.0	29.0	26.0	25.5
5	16.0	16.0	22.0	21.0	26.0	25.5	30.0	29.0	30.0	29.5	26.0	25.5
6	16.0	16.0	21.0	20.0	27.5	26.0	30.0	29.0	30.0	29.0	26.5	25.5
7	17.0	16.0	21.0	21.0	28.5	26.5	29.0	28.5	29.0	28.5	26.5	25.5
8	17.0	16.0	22.0	21.0	29.0	28.0	29.0	29.0	29.0	28.5	26.0	25.5
9	16.0	16.0	24.0	22.0	29.0	28.5	29.0	29.0	29.0	29.0	26.5	26.0
10	16.0	16.0	24.0	24.0	29.0	28.5	30.0	29.0	29.0	28.5	26.0	25.0
11	18.0	16.0	24.0	24.0	28.5	27.0	30.0	29.0	29.0	29.0	26.0	25.5
12	19.0	18.0	24.0	24.0	27.5	25.5	29.0	29.0	30.0	29.0	26.0	25.5
13	19.0	19.0	24.0	24.0	25.5	25.0	29.0	29.0	30.0	29.5	26.0	25.5
14	19.0	18.0	24.0	24.0	25.5	25.0	29.0	29.0	29.5	29.0	26.0	25.5
15	18.0	18.0	24.0	24.0	25.5	24.5	29.0	29.0	30.0	29.5	26.5	26.0
16	18.0	18.0	25.0	24.0	25.0	24.5	29.0	29.0	30.0	30.0	26.5	26.0
17	18.0	18.0	26.0	25.0	25.0	24.5	29.0	29.0	30.0	29.5	26.0	25.5
18	18.0	18.0	26.0	26.0	25.5	24.5	29.0	29.0	30.0	30.0	26.0	25.5
19	18.0	18.0	26.0	26.0	25.5	25.5	29.0	29.0	30.0	30.0	25.5	24.5
20	18.0	18.0	26.0	26.0	26.0	25.5	29.0	29.0	30.0	29.5	25.0	24.5
21	18.0	18.0	26.0	25.0	26.5	25.5	29.0	28.0	29.5	29.0	25.0	25.0
22	18.0	18.0	26.0	25.0	27.0	26.5	28.5	28.0	29.5	29.5	25.0	25.0
23	20.0	18.0	25.0	25.0	28.5	27.0	28.5	27.0	29.5	29.0	25.0	25.0
24	20.0	20.0	25.0	25.0	29.0	28.0	28.5	28.0	29.5	28.5	25.0	25.0
25	21.0	20.0	25.0	25.0	29.0	28.5	29.0	28.0	28.5	28.0	25.0	25.0
26	22.0	21.0	25.0	24.0	29.0	28.5	29.5	29.0	28.0	26.5	25.0	24.0
27	23.0	22.0	25.0	24.0	29.0	28.5	29.5	29.0	26.5	25.5	24.0	23.0
28	23.0	22.0	26.0	25.0	29.0	29.0	30.0	29.0	26.0	25.5	23.5	23.0
29	22.0	22.0	26.0	26.0	29.0	29.0	30.0	29.5	26.0	25.5	24.0	23.5
30	22.0	20.0	26.0	26.0	29.0	28.5	29.5	29.0	26.0	25.5	24.5	24.0
31	---	---	26.0	26.0	---	---	29.0	28.0	26.5	25.5	---	---
MONTH	23.0	15.0	26.0	20.0	29.0	24.5	30.0	27.0	30.0	25.5	26.5	23.0

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CALIF.  
(National stream-quality accounting network station)

LOCATION.--Lat 32°39'57", long 115°30'08", in NE¼SW¼SE¼ sec.14, T.17 S., R.14 E., Imperial County, at gaging station at Second Street bridge, 0.2 mile downstream from international boundary, and 0.2 mile west of Calexico.

PERIOD OF RECORD.--Chemical analyses: August 1969 to July 1971, February to September 1973.

REMARKS.--Since February 1973, this station is part of a national environmental assessment program.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	DIS- SOLVED CALCIUM (CA) (MG/L)	DIS- SOLVED MAGNESIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO <sub>3</sub> ) (MG/L)
FEB.												
07...	1220	162	16	600	100	230	180	260	120	1000	44	342
MAR.												
28...	1400	178	18	--	--	--	--	240	120	1100	58	319
MAY												
07...	1430	161	19	700	50	230	140	260	130	1100	57	315
JUNE												
12...	1430	162	20	--	--	--	--	240	130	1100	25	300
26...	1200	151	21	--	--	--	--	240	130	1200	64	277
JULY												
25...	1330	136	21	2800	70	240	130	230	120	1100	9.4	271
AUG.												
07...	1800	145	22	--	--	--	--	230	120	1100	52	282
SEP.												
25...	1430	138	22	--	--	--	--	240	110	1100	63	289

DATE	CARBONATE (CO <sub>3</sub> ) (MG/L)	ALKALINITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO <sub>3</sub> ) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)
FEB.												
07...	0	281	860	1700	.8	--	6.0	--	--	1.2	4200	4170
MAR.												
28...	0	262	810	1700	.8	.52	4.8	5.3	24	1.3	4760	4200
MAY												
07...	0	258	830	1800	.9	.13	4.1	4.2	19	1.1	4480	4350
JUNE												
12...	0	246	800	1800	.8	.38	3.9	4.3	19	.90	4450	4260
26...	0	227	860	2000	.9	.04	2.0	2.0	9.0	1.0	5030	4650
JULY												
25...	0	222	820	1700	.9	.07	6.6	6.7	30	1.0	4510	4140
AUG.												
07...	0	231	770	1800	.9	.57	1.5	2.1	9.2	.93	4680	4230
SEP.												
25...	0	237	810	1700	.8	.48	6.3	6.8	30	1.0	4260	4190

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALÉXICO, CALIF.--Continued

## CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA+MG) (MG/L)	PERCENT SODIUM	SODIUM AD-SORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL PHYTO-PLANKTON (CELLS PER ML)	FECAL COLIFORM (COL PER 100 ML)
FEB. 07...	5.71	1840	1100	64	13	7480	7.2	15.5	20	35	1600	--
MAR. 28...	6.47	2290	1100	67	14	6830	7.4	18.0	20	20	8600	980000
MAY 07...	6.09	1950	1200	66	14	6400	7.2	25.0	30	32	42000	1300000
JUNE 12...	6.05	1950	1100	67	14	6490	7.2	30.0	20	30	8300	--
JUNE 26...	6.84	2050	1100	68	16	6560	7.2	31.0	20	28	81000	8000000
JULY 25...	6.13	1660	1100	69	15	6920	7.4	32.0	50	17	8900	4000000
AUG. 07...	6.36	1830	1100	68	15	7080	6.9	32.0	40	57	13000	1100000
SEP. 25...	5.79	1590	1100	68	15	6680	7.3	27.5	30	23	--	2000000

[illegible][illegible]

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

## PHYTOPLANKTON

DATE	PHYLUM .Class ..Order ...Family ....Genus .....Species	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
FEB. 07...	CHLOROPHYTA .Chlorophyceae ...Chlamydomonas	Green algae	830	52
	CHRYSTOPHYTA .Bacillariophyceae ....Tabellaria	Diatoms	620	39
	TOTAL PHYTOPLANKTON		1600	
MAR 28...	CHLOROPHYTA .Chlorophyceae ...Chlamydomonas	Green algae	1900	22
	CHRYSTOPHYTA .Bacillariophyceae ....Cyclotella ....Navicula	Diatoms	1500 2100	17 24
	TOTAL PHYTOPLANKTON		8600	
MAY 07...	CYANOPHYTA .Myxophyceae ....Anabaena	Blue-green algae	36000	85
	TOTAL PHYTOPLANKTON		42000	
JUNE 12...	CYANOPHYTA .Myxophyceae ....Agmenellum ....Oscillatoria	Blue-green algae	1800 2700	22 32
	TOTAL PHYTOPLANKTON		8300	
JUNE 26...	CHLOROPHYTA .Chlorophyceae ....Phytoconis	Green algae	24000	30
	CYANOPHYTA .Myxophyceae ....Lyngbya ....Oscillatoria	Blue-green algae	17000 19000	21 23
	TOTAL PHYTOPLANKTON		81000	
JULY 25...	CYANOPHYTA .Myxophyceae ....Lyngbya ....Oscillatoria	Blue-green algae	4300 1800	48 20
	TOTAL PHYTOPLANKTON		8900	
AUG. 07...	CHLOROPHYTA .Chlorophyceae ....Scenedesmus	Green algae	2600	20
	CYANOPHYTA .Myxophyceae ....Anacystis	Blue-green algae	5300	41
	TOTAL PHYTOPLANKTON		13000	

## ANTELOPE VALLEY

10263500 BIG ROCK CREEK NEAR VALYERMO, CALIF.

LOCATION.--Lat 34°25'15", long 117°50'19", in NW¼SE¼NE¼ sec.20, T.4 N., R.9 W., Los Angeles County, temperature recorder at gaging station on left bank, 0.1 mile upstream from Punchbowl Canyon, and 1.9 miles southeast of Valyermo.

DRAINAGE AREA.--22.9 sq mi.

PERIOD OF RECORD.--Water temperatures: January 1962 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum recorded, 21.5°C July 10, 11, Aug. 16, 17, 19; minimum, 3.5°C Feb. 11.

Period of record:

Water temperatures: Maximum, 24.0°C Aug. 19, 26, 1970, July 15, 31, 1972; minimum recorded, 1.0°C Feb. 1-4, 1969.

REMARKS.--No record available May 5-17, July 18 to Aug. 15, temperature probe covered with silt.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	15.5	14.5	10.0	11.5	7.5	7.0	5.0	10.5	6.5	11.0	6.5
2	19.0	14.5	14.5	10.0	11.5	7.5	9.5	5.5	10.0	6.5	11.5	5.5
3	17.5	14.5	15.0	10.5	11.5	8.0	9.5	6.5	10.0	7.5	12.0	4.5
4	19.5	14.5	15.0	11.0	10.0	7.5	7.5	5.5	11.5	7.5	11.0	5.0
5	19.0	14.5	14.5	10.5	10.0	7.0	8.5	5.0	12.0	7.0	9.5	4.0
6	18.5	15.0	14.0	9.5	10.0	7.0	8.5	5.0	10.5	8.0	9.5	5.0
7	18.5	15.5	13.5	11.5	9.5	7.0	8.5	5.0	9.5	7.5	11.5	6.0
8	19.5	15.0	13.5	10.0	8.5	6.5	9.0	5.5	11.0	7.0	7.0	6.0
9	19.0	15.0	13.5	9.5	8.0	5.5	10.0	7.5	12.0	7.0	12.0	5.5
10	17.0	14.0	12.5	9.5	7.0	5.5	10.5	7.0	10.0	7.5	12.0	5.0
11	18.0	13.0	12.5	10.0	8.0	5.0	10.5	7.0	7.5	3.5	8.0	4.0
12	17.0	13.5	13.0	9.5	8.5	5.0	12.0	8.0	8.5	6.0	10.5	4.5
13	18.0	13.0	12.0	9.5	8.0	5.5	11.5	7.5	9.0	4.5	9.5	4.5
14	17.5	12.5	11.5	9.5	8.5	5.0	12.0	7.5	9.0	4.0	10.5	4.0
15	17.5	12.5	13.0	9.5	8.5	5.0	12.0	8.0	6.5	4.0	12.0	6.5
16	16.0	12.5	11.5	9.5	9.0	6.0	10.5	7.0	9.0	4.0	12.5	6.5
17	15.0	13.0	11.5	9.5	10.5	7.0	10.5	7.0	8.5	4.0	12.5	7.0
18	14.5	13.0	13.0	9.0	11.0	7.5	9.5	6.5	10.0	4.0	12.5	7.0
19	14.5	12.5	12.0	9.0	11.0	8.0	7.5	6.0	9.0	4.0	13.0	7.0
20	14.0	12.5	12.0	9.0	11.5	8.0	9.5	5.5	8.0	4.0	10.5	5.5
21	17.0	12.0	11.5	8.0	12.0	8.0	8.5	6.0	7.0	6.0	10.5	6.0
22	17.0	12.5	11.0	8.0	11.5	8.5	9.5	5.5	10.5	5.5	10.0	6.0
23	17.0	12.5	11.0	8.0	11.0	7.5	9.5	5.5	10.0	5.5	12.0	6.5
24	17.0	12.5	11.5	7.5	10.5	7.5	10.0	5.5	10.5	6.5	13.0	7.0
25	16.0	11.5	12.0	8.0	10.5	7.5	9.5	6.5	10.5	4.5	13.0	7.0
26	15.0	12.0	12.5	9.0	10.5	7.0	10.5	6.0	11.0	5.5	9.5	7.0
27	15.5	12.0	12.0	8.5	10.5	6.5	10.0	5.5	12.5	8.0	12.0	7.0
28	15.5	11.5	12.0	8.0	8.5	7.0	10.5	6.0	10.0	8.0	11.0	7.0
29	14.5	10.5	11.5	8.0	9.5	6.0	10.5	6.0	---	---	11.0	6.5
30	12.0	9.0	11.5	7.5	9.5	6.0	9.5	7.0	---	---	12.5	7.0
31	13.0	9.0	---	---	9.0	5.0	11.0	6.5	---	---	13.0	7.5
MONTH	20.5	9.0	15.0	7.5	12.0	5.0	12.0	5.0	12.5	3.5	13.0	4.0
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	6.5	14.0	7.5	18.5	10.5	20.5	12.5	---	---	20.0	12.5
2	11.5	6.5	15.0	8.0	18.5	10.5	20.5	12.5	---	---	19.5	12.5
3	11.5	6.5	15.0	8.5	18.0	10.5	21.0	13.0	---	---	20.0	13.0
4	11.0	7.0	14.5	9.0	19.0	11.0	21.0	12.5	---	---	20.0	13.0
5	13.5	6.5	---	---	19.0	11.5	21.0	13.0	---	---	19.0	11.5
6	14.5	7.5	---	---	19.5	12.5	20.5	13.0	---	---	20.0	13.0
7	14.0	7.5	---	---	20.5	12.0	20.5	12.0	---	---	20.0	12.5
8	12.5	7.0	---	---	20.5	12.0	20.5	12.0	---	---	19.5	13.0
9	11.5	7.0	---	---	20.0	12.0	21.0	12.5	---	---	19.5	12.5
10	13.0	8.0	---	---	19.0	12.0	21.5	13.5	---	---	19.5	13.0
11	14.0	7.5	---	---	19.0	11.5	21.5	13.5	---	---	20.0	13.0
12	13.5	7.5	---	---	19.0	11.5	21.0	13.0	---	---	20.0	13.5
13	13.0	7.5	---	---	18.0	12.0	20.5	12.0	---	---	20.0	13.5
14	12.5	6.5	---	---	17.5	11.0	20.5	12.0	---	---	19.5	12.5
15	12.0	6.5	---	---	18.5	10.0	20.5	12.5	---	---	19.0	12.0
16	14.0	7.0	---	---	18.5	10.5	20.5	13.0	21.5	15.0	19.0	12.0
17	14.5	7.5	---	---	19.5	11.5	17.5	13.0	21.5	14.0	19.0	11.5
18	13.0	7.0	17.0	10.5	19.5	11.0	---	---	20.0	14.5	19.0	11.5
19	13.0	7.0	17.0	10.5	19.0	11.5	---	---	21.5	14.0	19.0	12.5
20	12.0	7.0	16.0	10.0	19.5	11.5	---	---	18.0	14.5	19.0	12.5
21	10.0	7.0	16.5	10.0	20.0	12.0	---	---	20.0	14.5	19.0	12.5
22	11.0	7.5	17.0	9.0	20.0	12.5	---	---	20.5	13.5	19.0	12.5
23	14.5	8.0	17.0	9.5	19.5	12.5	---	---	20.0	12.0	18.0	12.5
24	15.0	8.5	16.5	10.0	19.5	12.0	---	---	19.5	12.0	18.5	11.5
25	15.0	8.5	17.0	11.0	20.5	12.0	---	---	19.5	12.0	17.5	12.0
26	14.5	9.0	17.0	10.0	20.5	13.0	---	---	19.5	12.5	17.5	12.0
27	13.5	9.0	17.5	10.0	21.0	13.0	---	---	19.0	11.5	18.0	11.5
28	13.5	9.0	17.0	11.0	21.0	13.0	---	---	19.5	12.0	18.5	12.0
29	14.0	8.5	18.5	11.0	21.0	13.0	---	---	20.0	12.5	18.5	12.0
30	13.0	8.0	18.5	11.5	21.0	13.0	---	---	20.5	13.0	18.5	12.5
31	---	---	18.5	11.5	---	---	---	---	20.0	13.0	---	---
MONTH	15.0	6.5	---	---	21.0	10.0	---	---	---	---	20.0	11.5

## OWENS LAKE BASIN

45

10278300 LOS ANGELES AQUEDUCT AT OUTLET, AT SAN FERNANDO, CALIF.

LOCATION.--Lat 34°18'46", long 118°29'32", (unsurveyed), Los Angeles County, in Mission de San Fernando substation at Los Angeles Aqueduct outlet at upper end of Van Norman Lake, at San Fernando.

PERIOD OF RECORD.--Chemical analyses: Water year 1967 (partial-record station), October 1967 to September 1973.

REMARKS.--Records furnished by California Department of Water Resources. Records of discharge furnished by Los Angeles Department of Water and Power.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.											
16...	687	26	25	5.1	33	3.7	21	17	.5	.27	200
NOV.											
14...	526	27	26	5.4	34	3.6	20	15	.5	.25	205
DEC.											
26...	493	25	26	5.6	32	3.5	27	15	.5	.11	208
JAN.											
15...	556	26	26	5.4	32	3.3	30	14	.5	.07	208
FEB.											
20...	527	26	27	5.4	33	3.3	36	15	.5	.20	213
MAR.											
19...	502	26	30	6.3	40	3.7	37	16	.5	.20	240
APR.											
16...	613	28	29	6.1	37	3.8	39	19	.5	.23	244
MAY											
21...	675	26	26	5.1	37	4.2	29	18	.6	.23	224
JUNE											
18...	730	19	18	3.4	24	1.9	23	9.9	.6	.16	155
JULY											
16...	767	14	16	2.4	19	1.2	23	6.0	.3	.16	128
AUG.											
20...	789	16	20	2.9	25	2.5	24	8.9	.5	.07	157
SEP.											
17...	694	20	21	3.2	28	2.9	19	12	.5	.25	171

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	DIS- SOLVED BORON (B) (UG/L)
OCT.										
16...	.27	83	45	1.6	319	7.9	22.0	9.6	101	440
NOV.										
14...	.28	86	45	1.6	326	8.4	12.0	11.2	103	520
DEC.										
26...	.28	89	43	1.5	330	8.9	9.0	12.6	109	480
JAN.										
15...	.28	83	43	1.5	330	8.2	7.0	13.4	110	370
FEB.										
20...	.29	90	43	1.5	338	8.5	9.0	12.4	107	380
MAR.										
19...	.33	100	45	1.7	381	8.6	11.0	12.0	108	460
APR.										
16...	.33	93	44	1.6	368	8.2	13.0	11.4	107	--
MAY										
21...	.30	85	47	1.7	356	8.2	19.0	9.8	104	480
JUNE										
18...	.21	60	46	1.4	246	--	20.0	9.4	102	320
JULY										
16...	.17	51	45	1.2	204	8.2	23.0	9.2	106	210
AUG.										
20...	.21	62	46	1.4	249	8.2	23.0	9.0	103	--
SEP.										
17...	.23	65	47	1.5	272	8.2	21.0	8.0	89	--

## PYRAMID AND WINNEMUCCA LAKES BASIN

10336593 GRASS LAKE CREEK NEAR MEYERS, CALIF.

LOCATION.--Lat 38°48'07", long 120°00'54", in SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec.11, T.11 N., R.18 E., El Dorado County, at gaging station on left bank 60 ft upstream from Grass Lake Way, 300 ft upstream from confluence with Upper Truckee River, and 3.8 miles south of Meyers.

DRAINAGE AREA.--6.99 sq mi.

PERIOD OF RECORD.--Water temperatures: November 1971 to September 1973.

Sediment records: October 1971 to September 1973.

## EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 65 mg/l May 17; minimum daily, 0 mg/l on several days during November and December.

Sediment discharge: Maximum daily, 13 tons May 17; minimum daily, 0 tons on several days during November and December.

## Period of record:

Sediment concentrations: Maximum daily, 113 mg/l June 4, 1972; minimum daily, 0 mg/l on several days in 1972.

Sediment discharge: Maximum daily, 22 tons June 4, 1972; minimum daily, 0 tons on several days each year.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	---	---	0.0	0.0	---	---	---	6.0	---	12.0	---
2	9.0	---	---	---	---	2.0	1.0	5.0	---	12.5	---	---
3	9.5	4.5	---	---	---	---	---	---	---	---	---	---
4	---	3.0	---	0.0	---	---	---	1.5	9.5	---	---	---
5	---	2.5	0.0	---	0.0	1.0	---	---	---	13.0	---	---
6	6.5	2.0	---	---	---	---	2.5	---	---	---	---	---
7	---	---	---	---	---	---	---	5.5	---	---	---	10.5
8	---	---	---	0.0	1.0	2.0	---	---	12.0	---	14.0	---
9	8.5	---	---	---	---	2.5	4.0	---	---	12.5	---	---
10	7.0	2.0	---	---	---	---	---	---	---	---	---	---
11	---	---	0.0	0.0	---	---	---	8.0	---	---	---	9.0
12	---	---	0.0	0.0	0.0	1.0	---	---	---	---	13.5	---
13	---	2.0	---	1.0	---	---	2.0	---	---	12.5	---	---
14	---	---	---	---	---	---	---	9.0	10.0	---	---	---
15	---	---	0.0	1.0	0.0	---	---	7.0	---	---	---	---
16	6.0	---	---	0.0	---	1.5	3.0	6.0	---	---	---	---
17	---	1.5	---	0.0	---	---	---	---	---	---	---	---
18	---	---	1.0	---	---	---	3.0	9.5	9.0	14.5	---	---
19	---	---	1.0	---	---	2.5	---	---	---	---	---	9.0
20	5.5	---	1.5	---	0.0	---	4.0	---	---	---	---	---
21	---	0.0	2.0	---	1.0	---	---	---	---	---	---	---
22	---	---	0.0	0.0	---	---	---	---	---	---	10.0	---
23	5.0	---	---	0.0	1.0	2.0	4.5	9.5	---	12.0	---	---
24	---	0.0	---	---	---	---	2.0	6.5	---	---	---	6.5
25	---	---	---	0.0	---	---	4.5	6.0	14.0	---	---	---
26	---	---	---	---	1.0	1.0	---	---	---	---	---	---
27	4.0	1.0	0.0	---	---	---	5.0	---	---	10.5	---	5.5
28	---	---	---	---	---	---	---	8.0	---	---	14.0	---
29	---	---	---	0.0	---	---	---	---	---	---	---	---
30	---	0.0	---	---	---	---	4.0	7.5	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	10.5	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SFD. SIEVE DIAM. % FINER THAN .062 MM
APR.						
24...	0920	2.0	21	11	.62	28
MAY						
02...	1715	5.0	45	49	6.0	22
09...	2030	4.0	56	39	5.9	36
15...	1245	7.0	56	24	3.6	8
16...	2050	---	88	134	32	16
23...	1830	10.0	70	38	7.2	18
JUNE						
08...	1215	12.0	44	12	1.4	14
JULY						
05...	1150	13.0	11	6	.18	43
AUG.						
08...	1620	14.0	2.6	4	.03	43



10336593 GRASS LAKE CREEK NEAR MEYERS, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	2.8	6	.05	2.6	1	.01	2.4	0	0
2	4.4	5	.06	2.6	1	.01	2.4	0	0
3	3.9	2	.02	2.6	2	.01	2.4	1	.01
4	3.1	1	.01	4.4	10	.13	2.0	1	.01
5	3.0	1	.01	3.7	1	.01	2.0	1	.01
6	2.6	1	.01	3.3	1	.01	2.0	1	.01
7	2.8	2	.02	3.0	1	.01	2.0	1	.01
8	3.1	2	.02	2.8	1	.01	2.0	1	.01
9	2.8	1	.01	2.6	1	.01	2.0	1	.01
10	2.8	1	.01	2.6	1	.01	2.0	1	.01
11	2.8	1	.01	2.6	1	.01	2.0	1	.01
12	2.8	1	.01	2.6	1	.01	2.0	1	.01
13	2.8	1	.01	2.6	1	.01	2.0	2	.01
14	2.6	1	.01	2.6	1	.01	2.0	2	.01
15	2.8	1	.01	2.5	1	.01	2.0	2	.01
16	3.0	1	.01	2.5	1	.01	2.0	2	.01
17	3.1	1	.01	2.5	1	.01	13	16	.74
18	3.9	3	.03	2.5	1	.01	6.5	11	.19
19	4.1	4	.04	2.5	1	.01	14	18	.68
20	5.0	6	.08	2.8	2	.02	10	7	.19
21	4.8	3	.04	3.0	2	.02	9.7	6	.16
22	4.8	2	.03	2.6	1	.01	9.7	6	.16
23	4.4	2	.02	2.8	1	.01	8.4	5	.11
24	4.1	2	.02	2.6	1	.01	7.6	4	.08
25	3.7	1	.01	2.4	0	0	7.2	3	.06
26	3.5	1	.01	2.5	0	0	7.2	2	.04
27	3.3	1	.01	2.5	0	0	7.2	2	.04
28	3.3	1	.01	2.5	0	0	6.5	3	.05
29	2.8	1	.01	2.5	0	0	5.9	12	.19
30	2.6	1	.01	2.4	0	0	5.9	9	.14
31	2.6	1	.01	--	--	--	5.3	5	.07
TOTAL	104.1	--	.62	81.7	--	.38	157.3	--	3.04
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	5.3	4	.06	3.5	2	.02	3.1	3	.03
2	5.3	3	.04	3.5	2	.02	3.1	3	.03
3	4.8	2	.03	3.5	1	.01	3.0	3	.02
4	4.3	2	.02	3.5	1	.01	3.1	4	.03
5	3.9	2	.02	3.5	1	.01	3.0	5	.04
6	4.1	1	.01	3.5	1	.01	3.0	4	.03
7	3.9	1	.01	3.5	2	.02	3.0	2	.02
8	4.1	1	.01	3.5	2	.02	3.0	1	.01
9	3.9	1	.01	3.3	2	.02	3.1	1	.01
10	3.9	1	.01	3.1	2	.02	3.3	2	.02
11	6.2	6	.13	3.3	1	.01	3.3	2	.02
12	14	12	.46	3.1	1	.01	3.3	2	.02
13	9.7	5	.13	3.1	1	.01	3.3	2	.02
14	7.2	3	.06	3.1	1	.01	3.1	2	.02
15	6.5	2	.04	3.1	1	.01	3.1	2	.02
16	5.9	3	.05	3.1	1	.01	3.3	2	.02
17	5.3	2	.03	3.1	1	.01	3.3	2	.02
18	5.0	2	.03	3.1	1	.01	3.1	3	.03
19	4.4	1	.01	3.1	1	.01	3.3	3	.03
20	4.3	1	.01	3.1	1	.01	3.3	3	.03
21	4.3	1	.01	3.1	1	.01	3.3	2	.02
22	4.3	1	.01	3.1	2	.02	3.3	1	.01
23	3.9	1	.01	3.1	2	.02	3.3	1	.01
24	3.7	1	.01	3.1	2	.02	3.3	1	.01
25	3.7	1	.01	3.1	3	.03	3.7	2	.02
26	3.7	1	.01	3.1	3	.03	3.7	2	.02
27	3.7	1	.01	3.3	3	.03	3.7	2	.02
28	3.7	1	.01	3.1	3	.03	3.5	2	.02
29	3.7	1	.01	--	--	--	3.3	2	.02
30	3.5	1	.01	--	--	--	3.3	2	.02
31	3.5	2	.02	--	--	--	3.3	2	.02
TOTAL	153.7	--	1.29	90.6	--	.45	100.8	--	.66

## PYRAMID AND WINNEMUCCA LAKES BASIN

10336593 GRASS LAKE CREEK NEAR MEYERS, CALIF.--Continued  
 SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	3.3	2	.02	35	21	2.0	64	26	4.5
2	3.5	2	.02	41	29	3.2	56	23	3.5
3	3.3	2	.02	46	32	4.0	51	21	2.9
4	3.7	2	.02	42	17	1.9	49	18	2.4
5	4.8	3	.04	34	7	.64	48	15	1.9
6	6.8	4	.07	31	10	.84	47	14	1.8
7	7.2	6	.12	35	15	1.4	46	12	1.5
8	7.6	6	.12	40	19	2.1	45	12	1.5
9	8.4	6	.14	42	21	2.4	44	11	1.3
10	8.8	9	.21	48	30	3.9	41	10	1.1
11	10	16	.43	54	38	5.5	38	10	1.0
12	11	23	.68	60	38	6.2	36	9	.87
13	11	27	.80	61	36	5.9	35	8	.76
14	9.7	22	.58	62	31	5.2	32	8	.69
15	9.7	15	.39	66	36	6.4	30	7	.57
16	9.7	6	.16	70	63	12	29	6	.47
17	9.7	6	.16	73	65	13	26	5	.35
18	10	6	.16	71	55	11	24	4	.26
19	12	11	.36	72	51	9.9	23	4	.25
20	15	18	.73	66	42	7.5	22	4	.24
21	18	26	1.3	62	36	6.0	21	4	.23
22	20	38	2.1	65	39	6.8	21	4	.23
23	25	50	3.4	63	33	5.6	20	3	.16
24	24	34	2.2	60	30	4.9	20	3	.16
25	28	40	3.0	58	23	3.6	19	2	.10
26	32	42	3.6	52	18	2.5	19	2	.10
27	36	43	4.2	51	16	2.2	18	2	.10
28	42	46	5.2	53	16	2.3	17	2	.09
29	39	41	4.3	55	15	2.2	16	2	.09
30	33	20	1.8	57	15	2.3	15	2	.08
31	--	--	--	59	18	2.9	--	--	--
TOTAL	462.2	--	36.33	1684	--	146.28	972	--	29.20

DAY	JULY			AUGUST			SEPTEMBER		
	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	13	2	.07	3.5	4	.04	1.6	2	.01
2	12	2	.06	3.3	4	.04	1.6	2	.01
3	11	4	.12	3.3	4	.04	1.6	2	.01
4	11	4	.12	3.3	4	.04	1.6	2	.01
5	9.7	4	.10	3.1	4	.03	1.4	2	.01
6	8.8	4	.10	3.0	4	.03	1.4	2	.01
7	8.4	4	.09	2.8	4	.03	1.4	2	.01
8	7.6	4	.08	2.6	4	.03	1.4	2	.01
9	6.8	4	.07	2.5	3	.02	1.4	2	.01
10	6.8	4	.07	2.4	3	.02	1.4	2	.01
11	6.5	4	.07	2.0	2	.01	1.4	2	.01
12	6.2	2	.03	2.2	2	.01	1.4	2	.01
13	6.2	2	.03	2.2	2	.01	1.4	2	.01
14	7.2	4	.08	1.8	2	.01	1.4	2	.01
15	7.6	2	.04	1.6	2	.01	1.4	2	.01
16	6.5	1	.02	1.6	2	.01	1.4	3	.01
17	6.5	1	.02	1.4	2	.01	1.6	3	.01
18	6.2	1	.02	1.4	2	.01	1.6	3	.01
19	5.9	1	.02	1.4	3	.01	1.6	3	.01
20	5.6	2	.03	1.4	3	.01	1.6	3	.01
21	5.3	2	.03	1.4	3	.01	1.6	3	.01
22	5.0	3	.04	1.4	3	.01	1.6	4	.02
23	4.4	3	.04	1.4	3	.01	1.8	4	.02
24	4.1	3	.03	1.4	3	.01	1.8	4	.02
25	3.7	4	.04	1.4	3	.01	1.8	4	.02
26	3.5	4	.04	2.4	9	.06	1.8	4	.02
27	3.5	4	.04	3.7	3	.03	1.6	4	.02
28	3.5	4	.04	2.2	3	.02	1.6	4	.02
29	3.5	4	.04	2.0	3	.02	1.6	3	.01
30	3.3	4	.04	1.8	2	.01	1.4	3	.01
31	3.3	4	.04	1.6	2	.01	--	--	--
TOTAL	202.6	--	1.66	67.5	--	.62	46.2	--	.37

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

4122.7

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

220.90

## 49

LOCATION.--Lat 38°55'22", long 119°59'23", in NW 1/4 sec.4, T.12 N., R.18 E., El Dorado County, at gaging station on right bank on downstream side of U.S. Highway 50 bridge, 1.0 mile northeast of South Lake Tahoe Post Office, and 1.4 miles upstream from Lake Tahoe.

Sediment records: October 1971 to September 1973.

Sediment discharge: Maximum daily, 109 tons May .17; minimum daily, 0.04 ton on several days during October.

Sediment discharge: Maximum daily, 109 tons May 17, 1973; minimum daily, 0.04 ton on several days in 1972.

[illegible]

## PYRAMID AND WINNEMUCCA LAKES BASIN

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CALIF.--Continued

## SUSPENDED-SFDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	15	22	.89	18	1	.05	22	5	.30
2	23	19	1.2	17	1	.05	21	10	.57
3	25	6	.41	17	1	.05	20	14	.76
4	18	4	.19	56	52	9.7	20	17	.92
5	16	4	.17	38	8	.89	20	19	1.0
6	17	2	.09	28	2	.15	19	17	.87
7	26	3	.21	27	2	.15	18	12	.58
8	21	2	.11	25	2	.14	17	6	.28
9	15	1	.04	23	2	.12	16	4	.17
10	14	1	.04	23	1	.06	15	4	.16
11	15	1	.04	23	1	.06	15	3	.12
12	14	1	.04	22	1	.06	15	3	.12
13	15	1	.04	22	1	.06	16	3	.13
14	14	1	.04	24	2	.13	17	2	.09
15	14	1	.04	23	2	.12	19	4	.21
16	15	1	.04	22	2	.12	25	62	4.2
17	17	2	.07	22	2	.12	140	112	42
18	32	20	1.8	22	3	.18	413	50	57
19	24	4	.26	22	3	.18	486	70	94
20	25	2	.14	21	3	.17	419	74	82
21	25	2	.14	21	8	.45	213	69	41
22	23	2	.12	21	10	.57	193	60	32
23	22	1	.06	21	13	.74	131	35	12
24	20	1	.05	21	15	.85	111	24	7.2
25	19	1	.05	21	13	.74	94	22	5.6
26	18	1	.05	21	9	.51	82	19	4.2
27	18	1	.05	21	5	.28	76	19	3.9
28	17	1	.05	21	2	.11	74	17	3.4
29	17	1	.05	22	4	.24	70	16	3.0
30	16	1	.04	22	4	.24	65	17	3.0
31	16	1	.04	--	--	--	63	20	3.4
TOTAL	586	--	6.56	707	--	17.29	2925	--	404.18
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	60	22	3.6	57	16	2.5	57	6	.92
2	56	18	2.7	57	13	2.0	56	6	.91
3	52	11	1.5	57	5	.77	54	5	.73
4	48	11	1.4	56	5	.76	53	6	.86
5	46	10	1.2	52	15	2.1	52	6	.84
6	44	8	.95	50	4	.54	50	6	.81
7	42	6	.68	50	5	.68	48	5	.65
8	43	3	.35	49	11	1.5	48	3	.39
9	43	4	.46	48	5	.65	47	3	.38
10	55	6	.89	48	5	.65	49	4	.53
11	106	9	3.4	47	7	.89	48	5	.65
12	537	63	100	47	10	1.3	48	5	.65
13	347	94	88	47	8	1.0	48	5	.65
14	201	75	41	48	10	1.3	47	5	.63
15	124	79	26	48	6	.78	46	5	.62
16	172	85	41	48	4	.52	46	6	.75
17	169	69	32	47	5	.63	48	8	1.0
18	130	45	16	47	5	.63	48	7	.91
19	88	40	9.5	47	4	.51	48	5	.65
20	80	35	7.6	47	6	.76	48	3	.39
21	76	27	5.5	46	6	.75	48	3	.39
22	70	16	3.0	46	4	.50	47	4	.51
23	68	12	2.2	45	4	.49	47	2	.25
24	66	10	1.8	46	4	.50	48	4	.52
25	64	9	1.6	45	4	.49	56	11	1.7
26	63	8	1.4	45	6	.73	64	24	4.1
27	61	7	1.2	49	5	.66	68	20	3.7
28	59	7	1.1	57	6	.92	61	10	1.6
29	58	5	.78	--	--	--	55	7	1.0
30	58	5	.78	--	--	--	52	7	.98
31	57	5	.77	--	--	--	59	8	1.3
TOTAL	3143	--	398.36	1376	--	25.51	1594	--	29.97



## PYRAMID AND WINNEMUCCA LAKES BASIN

## 10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE MENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV.										
04...	0950	3.5	--	69	38	7.1	75	--	--	--
05...	1345	5.0	--	35	3	.28	100	--	--	--
20...	1145	.5	21	26	3	.17	71	100	--	--
DEC.										
18...	0935	.0	--	412	46	51	97	100	--	--
21...	1045	1.0	--	188	64	32	32	46	79	100
JAN.										
13...	1230	.0	--	375	110	111	45	55	78	100
APR.										
11...	0950	3.0	--	138	21	7.8	32	--	--	--
25...	1140	5.5	--	218	39	23	33	--	--	--
MAY										
01...	1550	9.0	--	207	17	9.5	38	--	--	--
10...	0155	6.0	--	357	110	106	14	--	--	--
14...	1000	4.0	--	566	34	52	38	--	--	--
17...	0220	--	--	692	131	245	27	--	--	--
24...	0310	6.5	--	554	54	81	22	--	--	--
30...	0750	6.0	--	546	32	47	28	--	--	--
JULY										
03...	1110	13.0	--	59	4	.64	50	--	--	--
AUG.										
07...	1340	19.5	--	20	4	.22	61	--	--	--
29...	1425	19.5	--	16	3	.13	100	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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.							
21...	1040	0.0	7	21	1	2	9
DEC.							
26...	1135	.0	6	85	--	1	9
JULY							
03...	0950	13.0	5	64	--	2	10
AUG.							
29...	1425	19.5	4	16	--	2	11

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.						
21...	21	31	46	71	94	100
DEC.						
26...	27	42	58	76	94	100
JULY						
03...	26	41	57	75	95	100
AUG.						
29...	42	57	71	86	97	100

PYRAMID AND WINNEMUCCA LAKES BASIN

53

10336630 EAGLE CREEK NEAR CAMP RICHARDSON, CALIF.

LOCATION.--Lat 38°57'05", long 120°06'38", in SW1SW1 sec.21, T.13 N., R.17 E., El Dorado County, Eldorado National Forest, at gaging station at downstream edge of culvert on State Highway 89, 0.7 mile northwest of Bay View Guard Station, and 4.0 miles northwest of Camp Richardson.

DRAINAGE AREA.--6.38 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1973.  
Sediment records: October 1971 to September 1973.

EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 12 mg/l Dec. 17; minimum daily, 0 mg/l on many days.  
Sediment discharge: Maximum daily, 3.5 tons Dec. 17; minimum daily, 0 tons on many days.

Period of record:

Sediment concentrations: Maximum daily, 20 mg/l Mar. 3, 1972; minimum daily, 0 mg/l on many days each year.  
Sediment discharge: Maximum daily, 3.5 tons Dec. 17, 1972; minimum daily, 0 tons on many days each year.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	---	---	0.0	0.0	1.0	---	---	7.0	---	18.0	---
2	11.0	---	---	---	---	1.0	1.0	2.0	---	14.0	---	---
3	10.0	5.5	---	---	---	---	---	---	---	---	---	---
4	---	5.0	---	0.0	---	---	---	2.0	8.5	---	---	---
5	---	5.0	0.0	---	0.0	2.0	---	---	---	17.5	---	---
6	10.0	5.0	---	---	---	---	3.0	---	8.5	15.5	---	---
7	---	---	---	---	---	---	---	5.0	9.5	---	18.0	14.0
8	---	---	---	0.0	0.0	1.0	---	---	9.0	---	---	---
9	10.0	---	---	---	---	---	2.0	6.0	---	18.0	---	---
10	9.5	3.5	---	---	---	---	---	---	---	---	---	---
11	---	---	0.0	0.0	---	---	---	3.5	11.5	---	---	13.0
12	---	---	---	---	---	0.5	---	---	---	---	17.5	---
13	---	2.5	---	1.5	---	---	1.0	---	---	16.0	---	---
14	---	---	---	---	---	---	---	7.0	11.5	---	---	---
15	---	---	0.0	1.0	0.0	---	---	---	---	---	18.0	---
16	7.5	---	---	0.0	---	2.0	2.5	5.0	---	---	---	---
17	---	2.5	---	0.0	---	---	---	---	---	---	15.0	---
18	7.5	---	2.5	---	---	---	1.5	5.0	9.0	15.5	---	---
19	---	---	3.0	---	---	1.0	---	---	---	---	---	10.5
20	8.0	1.0	2.0	---	0.0	---	2.5	---	---	---	---	---
21	---	---	2.0	---	---	---	---	---	---	---	---	---
22	---	---	1.0	0.0	---	---	---	---	---	---	14.5	---
23	7.0	---	---	---	0.0	1.5	4.5	6.5	---	16.0	---	---
24	---	0.5	---	---	---	---	---	---	---	---	---	9.5
25	---	---	---	0.0	---	---	2.5	4.0	13.5	---	---	---
26	---	---	---	0.0	1.0	1.5	3.0	---	---	---	---	---
27	6.0	---	0.0	---	---	1.5	3.5	---	---	15.5	---	8.0
28	---	---	---	---	---	---	---	7.0	15.5	---	14.0	---
29	---	1.0	0.0	0.0	---	---	---	---	---	---	---	---
30	---	2.5	---	---	---	0.5	2.5	7.5	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	14.0	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS- SEC. SIFVE DIAM. % FINER .062 MM
APR. 25...	0940	2.5	43	8	.93	100
MAY 02...	1915	2.0	61	2	.33	100
09...	1905	2.5	81	2	.44	100
23...	2255	6.0	137	5	1.8	100
30...	2305	6.5	130	7	2.5	19
JUNE 07...	1115	9.5	83	0	.00	100
JULY 06...	1130	15.5	18	2	.10	64
AUG. 15...	1145	18.0	1.2	2	.01	100

## PYRAMID AND WINNEMUCCA LAKES BASIN

10336630 EAGLE CREEK NEAR CAMP RICHARDSON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	4.8	0	0	1.1	1	0	5.6	0	0
2	4.0	0	0	1.1	1	0	5.4	0	0
3	4.6	0	0	1.2	1	0	5.6	1	.02
4	4.8	0	0	1.8	2	.10	5.4	1	.01
5	4.6	0	0	2.0	1	.05	5.2	1	.01
6	4.2	0	0	1.4	2	.08	5.1	1	.01
7	3.4	0	0	1.0	2	.05	5.0	1	.01
8	2.8	0	0	8.9	2	.05	4.9	1	.01
9	2.4	0	0	7.7	2	.04	4.8	1	.01
10	2.2	0	0	6.7	2	.04	4.7	0	0
11	2.8	0	0	6.7	2	.04	4.7	0	0
12	3.4	0	0	6.4	1	.02	4.8	1	.01
13	3.4	1	.01	6.0	1	.02	4.8	1	.01
14	3.0	1	.01	7.5	1	.02	4.9	2	.03
15	2.8	1	.01	7.7	1	.02	5.0	2	.03
16	2.6	1	.01	7.7	1	.02	5.0	2	.03
17	3.6	1	.01	7.3	1	.02	84	12	3.5
18	6.9	2	.04	6.7	1	.02	95	4	1.2
19	9.6	2	.05	6.4	0	0	118	8	2.7
20	9.9	2	.05	5.8	0	0	64	4	.69
21	9.2	2	.05	5.6	0	0	39	5	.53
22	7.5	1	.02	5.8	0	0	35	4	.38
23	6.4	1	.02	5.4	0	0	24	2	.13
24	5.6	1	.02	5.0	0	0	19	1	.05
25	4.6	1	.01	5.0	0	0	15	0	0
26	3.6	1	.01	5.6	0	0	12	0	0
27	3.2	1	.01	6.4	1	.02	11	0	0
28	2.2	1	.01	6.2	1	.02	9.9	0	0
29	1.5	1	0	6.0	1	.02	8.6	0	0
30	1.3	1	0	5.8	0	0	8.4	0	0
31	1.2	1	0	--	--	--	7.5	0	0
TOTAL	132.1	--	.34	213.7	--	.65	631.3	--	9.37

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	6.7	0	0	5.4	0	0	5.8	1	.02
2	6.4	0	0	5.2	0	0	5.6	1	.02
3	6.2	0	0	5.0	0	0	5.4	1	.01
4	6.2	0	0	5.4	0	0	5.6	1	.02
5	5.8	0	0	5.2	0	0	5.4	1	.01
6	5.6	0	0	5.2	0	0	5.4	1	.01
7	5.0	0	0	5.2	0	0	5.4	0	0
8	5.2	0	0	5.2	0	0	5.2	0	0
9	6.4	0	0	5.0	0	0	4.8	0	0
10	7.1	0	0	4.9	0	0	5.0	1	.01
11	14	1	.07	4.8	0	0	6.2	1	.02
12	52	7	.98	4.7	0	0	5.6	1	.02
13	38	2	.23	4.7	0	0	5.4	1	.01
14	20	0	0	4.8	0	0	5.2	1	.01
15	15	0	0	4.8	0	0	4.8	1	.01
16	16	0	0	4.8	0	0	4.8	1	.01
17	15	0	0	5.0	0	0	5.2	1	.01
18	15	0	0	5.0	0	0	5.2	1	.01
19	15	0	0	5.0	0	0	5.0	1	.01
20	14	0	0	4.8	0	0	5.0	1	.01
21	11	0	0	4.8	0	0	5.0	1	.01
22	8.9	0	0	5.0	1	.01	5.4	0	0
23	7.7	0	0	4.8	1	.01	5.0	0	0
24	6.9	0	0	4.8	1	.01	5.0	0	0
25	6.7	0	0	5.0	1	.01	5.4	0	0
26	5.8	0	0	5.0	1	.01	6.4	0	0
27	5.8	0	0	5.8	1	.02	7.3	0	0
28	5.4	0	0	6.0	1	.02	6.9	0	0
29	5.4	0	0	--	--	--	6.0	0	0
30	5.8	0	0	--	--	--	5.4	0	0
31	5.8	0	0	--	--	--	5.4	0	0
TOTAL	349.8	--	1.28	141.3	--	.09	169.2	--	.23



10336630 EAGLE CREEK NEAR CAMP RICHARDSON, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	5.8	0	0	44	2	.24	115	3	.93
2	5.4	0	0	52	2	.28	99	2	.53
3	5.4	0	0	62	3	.50	85	3	.69
4	5.2	1	.01	55	2	.30	82	2	.44
5	5.8	1	.02	35	1	.09	85	2	.46
6	10	1	.03	30	2	.16	90	2	.49
7	16	1	.04	44	5	.59	85	1	.23
8	15	1	.04	62	4	.67	84	0	0
9	19	1	.05	72	2	.39	90	0	0
10	21	1	.06	92	3	.75	84	1	.23
11	26	1	.07	115	3	.93	75	2	.41
12	30	1	.08	132	3	1.1	68	2	.37
13	26	1	.07	136	3	1.1	62	2	.33
14	18	1	.05	139	2	.75	50	1	.14
15	15	2	.08	145	3	1.2	39	1	.11
16	13	2	.07	162	6	2.6	34	1	.09
17	13	2	.07	164	6	2.7	29	0	0
18	13	2	.07	170	4	1.8	26	0	0
19	13	2	.07	164	3	1.3	27	1	.07
20	12	2	.06	130	3	1.1	31	1	.08
21	12	2	.06	108	2	.58	36	2	.19
22	15	2	.08	105	3	.85	39	2	.21
23	30	3	.24	105	3	.85	41	2	.22
24	43	7	.81	118	3	.96	33	1	.09
25	49	9	1.2	113	3	.92	31	0	0
26	61	7	1.2	79	2	.43	34	1	.09
27	75	7	1.4	76	2	.41	40	2	.22
28	79	5	1.1	94	3	.76	38	2	.21
29	65	3	.53	122	4	1.3	37	2	.20
30	60	1	.16	136	4	1.5	33	1	.09
31	--	--	--	113	3	.92	--	--	--
TOTAL	776.6	--	7.72	3174	--	28.03	1702	--	7.12

DAY	JULY			AUGUST			SEPTEMBER		
	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	26	1	.07	4.0	2	.02	1.4	2	.01
2	20	0	0	4.0	2	.02	1.3	2	.01
3	18	0	0	4.0	2	.02	1.0	2	.01
4	18	0	0	3.8	1	.01	.88	2	0
5	18	0	0	3.6	1	.01	.88	1	0
6	18	2	.10	3.0	1	.01	.78	1	0
7	18	2	.10	2.6	1	.01	.68	1	0
8	15	2	.08	2.4	1	.01	.65	1	0
9	14	2	.08	2.0	1	.01	.56	2	0
10	14	2	.08	2.4	2	.01	.53	2	0
11	14	1	.04	3.2	2	.02	.50	2	0
12	14	1	.04	2.4	2	.01	.50	2	0
13	13	0	0	1.8	2	.01	.50	2	0
14	12	0	0	1.4	2	.01	.50	2	0
15	11	0	0	1.2	2	.01	.47	2	0
16	9.6	1	.03	.94	2	.01	.39	2	0
17	9.4	1	.03	.83	2	0	.39	2	0
18	8.9	2	.05	.71	2	0	.37	2	0
19	8.2	2	.04	.62	2	0	.35	2	0
20	7.3	2	.04	.56	2	0	.44	2	0
21	6.7	2	.04	.53	2	0	.50	2	0
22	5.8	2	.03	.50	2	0	.39	2	0
23	5.0	2	.03	.47	2	0	.27	2	0
24	4.4	2	.02	.44	2	0	.41	2	0
25	4.2	2	.02	.41	2	0	.41	2	0
26	4.0	2	.02	.53	2	0	.39	3	0
27	3.8	2	.02	.88	2	0	.39	4	0
28	3.6	2	.02	1.4	2	.01	.39	4	0
29	3.6	2	.02	2.0	2	.01	.39	3	0
30	3.8	2	.02	2.2	2	.01	.41	3	0
31	3.8	2	.02	1.4	2	.01	--	--	--
TOTAL	335.1	--	1.04	56.22	--	.24	17.02	--	.03

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)  
 TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

7698.34  
 56.14

## PYRAMID AND WINNEMUCCA LAKES BASIN

10336640 MEEKS CREEK AT MEEKS BAY, CALIF.

LOCATION.--Lat 39°02'09", long 120°07'23", in NE1/4 sec. 29, T.14 N., R.17 E., El Dorado County, Eldorado National Forest, at gaging station on upstream side of State Highway 89 culvert, and 0.1 mile north of Meeks Bay Fire Department.

DRAINAGE AREA.--8.08 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1973.

Sediment records: October 1971 to September 1973.

EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 28 mg/l Dec. 19; minimum daily, 0 mg/l on many days.

Sediment discharge: Maximum daily, 4.4 tons Dec. 19; minimum daily, 0 tons on many days.

Period of record:

Sediment concentrations: Maximum daily, 31 mg/l Sept. 1, 1972; minimum daily, 0 mg/l on many days each year.

Sediment discharge: Maximum daily, 4.4 tons Dec. 19, 1972; minimum daily, 0 tons on many days each year.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.0	---	---	0.0	0.0	---	---	---	10.0	---	17.0	---
2	8.5	---	---	---	---	1.5	2.0	5.5	---	14.0	---	---
3	9.0	4.0	---	---	---	---	---	4.5	---	---	---	---
4	---	3.5	---	2.0	---	---	---	3.5	10.0	---	---	---
5	---	4.0	0.5	---	0.0	---	---	---	---	---	---	---
6	8.0	2.0	---	---	---	---	---	---	11.0	17.5	---	---
7	---	---	---	---	---	---	---	5.5	13.5	---	---	19.0
8	---	---	0.0	0.0	0.0	1.0	---	---	17.0	---	---	---
9	8.5	---	---	---	---	---	1.5	5.0	---	19.0	18.5	---
10	9.0	2.5	---	---	---	---	---	---	---	---	---	---
11	---	---	0.0	0.0	---	---	---	5.0	14.0	---	---	11.0
12	---	---	---	0.0	0.0	---	---	---	---	---	---	---
13	---	1.0	---	0.0	---	1.0	0.5	---	---	18.0	---	---
14	---	---	---	---	---	---	---	9.0	14.0	---	---	---
15	---	---	0.0	0.0	2.0	---	---	---	---	---	20.0	---
16	5.5	---	---	0.0	---	1.0	2.0	7.0	---	---	---	---
17	---	1.0	---	0.0	---	---	---	---	---	---	11.5	---
18	---	---	0.0	---	---	---	1.0	5.5	10.0	15.5	---	20.0
19	---	---	0.0	---	---	1.0	---	---	---	---	---	---
20	5.5	1.0	0.0	---	0.0	---	2.0	---	---	---	---	---
21	---	---	0.0	---	---	0.0	---	---	15.0	---	---	---
22	---	---	0.5	0.0	---	---	---	---	---	---	13.5	---
23	4.5	---	---	---	0.0	1.0	4.5	11.5	---	14.5	---	---
24	---	0.5	---	---	---	---	---	7.0	---	---	---	11.5
25	---	---	---	0.0	---	---	2.0	5.0	14.5	---	---	---
26	---	---	---	---	---	2.0	6.5	---	---	---	---	---
27	5.0	0.0	0.0	---	1.0	---	3.0	---	---	12.5	---	9.0
28	---	---	---	---	0.0	---	---	11.0	17.5	---	15.0	---
29	---	---	0.0	0.0	---	---	---	---	---	---	---	---
30	---	0.5	---	---	---	0.5	3.5	12.5	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	15.0	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS. SED. SIFVE DIAM. % FINER THAN .062 MM
APR. 25...	0940	2.0	47	2	.25	100
MAY 03...	0040	4.5	59	3	.48	100
09...	2220	9.0	62	2	.33	100
17...	0310	--	194	11	5.8	100
18...	1100	5.5	136	3	1.1	100
24...	0410	7.0	98	3	.79	100
30...	0650	9.0	107	14	4.0	16
JUNE 07...	1215	13.5	46	1	.12	100
JULY 06...	1345	17.5	3.0	2	.02	88
AUG. 15...	1440	20.0	.10	6	.00	48

10336640 MEEKS CREEK AT MEEKS BAY, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.50	2	0	.96	1	0	2.1	1	.01
2	.88	7	.02	.96	0	0	2.4	1	.01
3	.50	1	0	1.3	2	.01	2.4	1	.01
4	.47	1	0	8.8	4	.10	2.3	1	.01
5	.51	1	0	6.7	1	.02	2.2	1	.01
6	.58	1	0	4.3	0	0	2.1	1	.01
7	.73	1	0	3.4	0	0	2.1	1	.01
8	1.2	1	0	3.4	1	.01	2.0	1	.01
9	.96	1	0	2.7	1	.01	2.0	1	.01
10	.96	1	0	2.4	1	.01	2.0	1	.01
11	1.2	1	0	2.4	1	.01	2.0	1	.01
12	.96	1	0	2.4	2	.01	2.0	1	.01
13	.96	1	0	2.4	2	.01	2.0	1	.01
14	.96	2	.01	3.0	2	.02	2.1	0	0
15	1.2	2	.01	3.0	2	.02	2.2	0	0
16	1.2	2	.01	2.7	2	.01	2.3	0	0
17	1.5	2	.01	2.4	2	.01	11	3	.09
18	2.4	1	.01	2.1	2	.01	25	6	.47
19	2.4	1	.01	2.1	1	.01	55	28	4.4
20	2.7	1	.01	2.1	1	.01	56	12	1.8
21	2.7	1	.01	2.1	1	.01	33	4	.41
22	2.4	1	.01	2.1	1	.01	35	3	.28
23	2.1	1	.01	1.8	1	0	24	3	.19
24	1.8	1	0	1.8	1	0	18	2	.10
25	1.5	1	0	1.8	1	0	15	2	.08
26	1.2	1	0	1.8	1	0	12	1	.03
27	1.2	1	0	1.8	1	0	11	1	.03
28	.96	1	0	2.1	1	.01	10	1	.03
29	.96	1	0	2.1	1	.01	9.2	1	.02
30	.96	1	0	2.1	1	.01	9.2	1	.02
31	.96	1	0	--	--	--	8.2	1	.02
TOTAL	39.51	--	.12	79.02	--	.33	365.8	--	8.10
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	7.7	1	.02	7.2	1	.02	8.7	1	.02
2	7.2	1	.02	7.2	1	.02	8.2	1	.02
3	7.2	0	0	7.2	0	0	8.2	1	.02
4	6.7	0	0	7.2	0	0	8.2	1	.02
5	6.2	0	0	7.2	0	0	7.7	1	.02
6	5.7	0	0	7.2	0	0	7.7	1	.02
7	5.2	0	0	7.2	0	0	7.7	1	.02
8	5.2	0	0	7.2	0	0	7.7	1	.02
9	6.2	0	0	6.7	0	0	7.2	1	.02
10	6.7	0	0	6.6	0	0	7.7	2	.04
11	9.2	0	0	6.6	0	0	8.2	2	.04
12	51	16	2.9	6.6	0	0	8.2	3	.07
13	62	15	2.7	6.6	0	0	7.7	3	.06
14	32	8	.77	6.8	0	0	7.2	3	.06
15	22	3	.18	7.2	0	0	6.7	2	.04
16	31	11	1.0	7.2	0	0	6.7	1	.02
17	30	4	.35	7.2	0	0	7.2	3	.06
18	18	1	.05	7.2	0	0	6.7	5	.09
19	18	1	.05	7.2	0	0	7.2	10	.19
20	16	1	.04	7.2	0	0	6.7	12	.22
21	14	1	.04	7.2	0	0	6.7	13	.24
22	12	1	.03	7.2	1	.02	7.2	8	.16
23	11	1	.03	7.2	1	.02	6.7	1	.02
24	10	0	0	6.7	1	.02	7.2	0	0
25	9.7	0	0	7.2	1	.02	7.7	0	0
26	9.7	0	0	7.2	1	.02	8.2	0	0
27	9.2	1	.02	8.2	1	.02	9.2	0	0
28	8.7	1	.02	9.2	1	.02	9.2	0	0
29	8.7	1	.02	--	--	--	7.7	1	.02
30	9.2	1	.02	--	--	--	7.7	1	.02
31	8.2	1	.02	--	--	--	8.2	1	.02
TOTAL	463.6	--	8.28	200.8	--	.18	237.2	--	1.55

## 10336640 MEEKS CREEK AT MREKS BAY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	8.2	1	.02	48	2	.26	72	3	.58
2	8.2	0	0	52	2	.28	76	4	.82
3	8.2	0	0	61	5	.82	53	1	.14
4	8.7	1	.02	64	3	.52	46	1	.12
5	11	1	.03	46	2	.25	44	1	.12
6	14	1	.04	35	2	.19	46	2	.25
7	19	1	.05	40	2	.22	44	1	.12
8	18	1	.05	56	2	.30	40	2	.22
9	22	1	.06	65	4	.70	41	2	.22
10	25	1	.07	75	6	1.2	38	2	.21
11	29	1	.08	95	9	2.3	32	2	.17
12	33	1	.09	112	7	2.1	30	2	.16
13	32	1	.09	130	8	2.8	27	1	.07
14	27	1	.07	134	7	2.5	23	1	.06
15	24	1	.06	132	10	3.6	19	1	.05
16	23	1	.06	145	10	3.9	17	1	.05
17	25	1	.07	149	8	3.2	15	1	.04
18	22	1	.06	147	7	2.8	14	1	.04
19	22	1	.06	138	6	2.2	13	1	.04
20	20	1	.05	112	5	1.5	13	1	.04
21	21	1	.06	86	4	.93	13	1	.04
22	24	1	.06	80	4	.86	14	1	.04
23	33	2	.18	82	3	.66	12	0	0
24	44	3	.36	82	2	.44	11	0	0
25	48	3	.39	70	2	.38	9.7	0	0
26	64	5	.86	56	1	.15	10	1	.03
27	77	8	1.7	50	1	.14	11	1	.03
28	82	9	2.0	59	2	.32	10	2	.05
29	71	7	1.3	75	7	1.4	9.2	1	.02
30	57	2	.31	86	8	1.9	7.7	1	.02
31	--	--	--	70	3	.57	--	--	--
TOTAL	920.3	--	8.25	2632	--	39.39	810.6	--	3.75

DAY	JULY			AUGUST			SEPTEMBER		
	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	6.7	0	0	.43	4	0	.20	4	0
2	4.8	0	0	.30	4	0	.20	4	0
3	3.8	0	0	.20	4	0	.20	5	0
4	3.8	1	.01	.30	3	0	.20	5	0
5	3.4	2	.02	.58	3	0	.20	5	0
6	3.0	2	.02	.58	3	0	.20	5	0
7	2.7	2	.01	.30	2	0	.10	15	0
8	2.4	1	.01	.30	2	0	.05	15	0
9	2.1	1	.01	.30	2	0	.05	16	0
10	2.1	2	.01	.30	3	0	.05	16	0
11	1.8	3	.01	.30	4	0	.05	17	0
12	1.8	4	.02	.20	4	0	.04	14	0
13	1.5	5	.02	.20	5	0	.04	12	0
14	1.2	4	.01	.20	5	0	.03	16	0
15	1.2	3	.01	.10	6	0	.03	8	0
16	.96	2	.01	.10	4	0	.03	8	0
17	.96	1	0	.10	3	0	.03	10	0
18	.96	1	0	.10	5	0	.03	12	0
19	.73	1	0	.10	6	0	.03	8	0
20	.73	2	0	.10	7	0	.03	6	0
21	.73	2	0	.10	9	0	.03	8	0
22	.73	3	.01	.10	10	0	.03	8	0
23	.58	3	0	.20	7	0	.03	8	0
24	.43	3	0	.30	7	.01	.03	10	0
25	.30	4	0	.43	6	.01	.03	8	0
26	.30	5	0	.30	5	0	.03	6	0
27	.30	6	0	.20	4	0	.02	8	0
28	.30	6	0	.20	3	0	.02	6	0
29	.30	5	0	.30	3	0	.02	6	0
30	.30	5	0	.30	4	0	.02	6	0
31	.43	4	0	.20	4	0	--	--	--
TOTAL	51.34	--	.18	7.72	--	.02	2.05	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

5809.94

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

70.15

## PYRAMID AND WINNEMUCCA LAKES BASIN

59

10336650 QUAIL LAKE CREEK NEAR HOMEWOOD, CALIF.

LOCATION.--Lat 39°04'34", long 120°09'06", in SW¼NW¼ sec.7, T.14 N., R.17 E., Placer County, Tahoe National Forest, at gaging station 93 ft upstream from Highway 89, and 0.5 mile southeast of Homewood.

DRAINAGE AREA.--0.95 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1973.

Sediment records: October 1971 to September 1973.

## EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 12 mg/l May 14, 15; minimum daily, 0 mg/l on many days.

Sediment discharge: Maximum daily, 0.71 ton May 14, 15; minimum daily, 0 tons on many days.

## Period of record:

Sediment concentrations: Maximum daily, 12 mg/l May 14, 15, 1973; minimum daily, 0 mg/l on many days each year.

Sediment discharge: Maximum daily, 0.71 ton May 14, 15, 1973; minimum daily, 0 tons on many days each year.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.0	---	---	0.0	1.0	---	---	---	10.0	---	16.0	---
2	10.5	---	---	---	---	1.5	5.0	3.0	---	13.0	---	---
3	8.0	5.5	---	---	---	---	---	---	---	12.5	---	---
4	---	5.0	---	2.0	---	---	---	3.5	12.0	---	---	---
5	---	5.0	1.0	---	1.0	4.0	---	---	---	---	---	---
6	8.5	4.5	---	---	---	---	---	---	---	12.0	---	---
7	---	---	---	---	---	---	---	5.0	---	---	9.5	14.0
8	---	---	1.0	0.0	1.0	1.5	---	---	15.0	---	---	---
9	9.0	---	---	---	---	---	5.5	4.0	---	14.0	---	---
10	---	4.5	---	---	---	---	---	---	---	---	---	---
11	---	---	0.0	1.0	---	---	---	5.5	12.5	---	---	9.5
12	---	---	---	2.0	0.0	---	---	---	---	---	---	---
13	---	4.5	---	3.0	---	2.0	2.5	---	---	14.0	---	---
14	---	---	---	---	---	---	---	9.0	13.0	---	17.0	12.0
15	---	---	1.0	2.0	2.0	---	---	---	---	---	---	---
16	5.5	---	---	1.0	---	3.0	3.0	6.0	---	---	---	---
17	---	4.0	---	2.0	---	---	---	---	---	---	11.5	---
18	---	---	3.0	---	---	---	1.5	8.0	5.0	12.5	---	---
19	---	---	2.0	0.0	---	1.5	---	---	---	---	---	---
20	6.0	4.0	3.0	---	1.0	---	3.0	---	---	---	---	---
21	---	---	3.0	---	---	1.5	---	---	13.0	---	---	---
22	---	---	2.0	1.0	---	---	---	---	---	---	14.0	---
23	5.0	---	---	---	2.0	2.5	5.0	10.5	---	13.0	---	---
24	---	2.5	---	---	---	---	3.0	7.5	14.5	---	---	10.0
25	---	---	---	1.0	---	---	---	---	---	---	---	---
26	---	---	---	---	---	6.5	---	---	---	---	---	---
27	6.5	2.0	2.0	---	3.0	---	4.0	---	---	10.5	---	12.0
28	---	---	---	---	4.0	---	---	12.5	15.0	---	15.5	---
29	---	---	1.0	0.0	---	---	---	---	---	---	---	---
30	---	2.5	---	---	---	2.0	3.5	12.0	---	---	15.5	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE D SEDI- MENT (MG/L)	SUS- PENDE D SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVF DIAM. % FINER THAN .062 MM
MAY						
09...	1800	--	10	4	.11	67
16...	1750	7.5	22	7	.42	33
18...	1250	8.0	17	2	.09	100
JUNE						
12...	1510	--	3.4	2	.02	100
JULY						
03...	0920	12.5	1.4	2	.01	54
AUG.						
14...	1530	17.0	.37	3	.00	100

PYRAMID AND WINNEMUCCA LAKES BASIN  
10336650 QUAIL LAKE CREEK NEAR HOMEWOOD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.33	1	0	.29	1	0	.33	0	0
2	.33	1	0	.29	1	0	.33	0	0
3	.33	1	0	.40	2	0	.33	1	0
4	.33	1	0	1.7	7	.04	.33	1	0
5	.29	0	0	.88	1	0	.33	1	0
6	.29	0	0	.70	1	0	.33	1	0
7	.29	0	0	.64	1	0	.33	0	0
8	.29	0	0	.58	1	0	.33	0	0
9	.29	0	0	.47	0	0	.37	0	0
10	.33	0	0	.47	0	0	.37	0	0
11	.33	1	0	.42	0	0	.37	1	0
12	.33	1	0	.42	0	0	.37	1	0
13	.33	1	0	.42	0	0	.37	1	0
14	.29	1	0	.42	0	0	.37	1	0
15	.29	1	0	.42	1	0	.37	1	0
16	.29	1	0	.42	1	0	.42	2	0
17	.37	1	0	.42	1	0	3.0	8	.07
18	.47	1	0	.42	1	0	3.8	6	.08
19	.33	1	0	.42	1	0	7.6	8	.18
20	.33	1	0	.42	1	0	4.9	3	.04
21	.33	1	0	.42	1	0	3.4	1	.01
22	.29	1	0	.42	1	0	4.0	2	.02
23	.29	1	0	.42	1	0	2.7	1	.01
24	.29	1	0	.42	1	0	2.1	1	.01
25	.29	1	0	.42	1	0	1.6	1	0
26	.29	1	0	.37	0	0	1.5	1	0
27	.29	1	0	.37	0	0	1.2	1	0
28	.29	1	0	.37	0	0	1.1	0	0
29	.29	1	0	.37	0	0	1.0	0	0
30	.29	1	0	.33	0	0	.96	0	0
31	.29	1	0	--	--	--	.88	1	0
TOTAL	9.59	--	0	14.53	--	.04	45.49	--	.42

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	.76	1	0	.96	1	0	.64	1	0
2	.76	1	0	.96	1	0	.64	0	0
3	.76	0	0	.96	1	0	.64	1	0
4	.70	0	0	.96	1	0	.64	1	0
5	.70	0	0	.96	1	0	.64	1	0
6	.70	0	0	.96	1	0	.64	1	0
7	.70	0	0	.96	1	0	.64	1	0
8	.70	0	0	.96	1	0	.64	1	0
9	.82	0	0	.96	1	0	.64	1	0
10	.96	0	0	.96	1	0	.64	1	0
11	3.0	7	.11	.96	1	0	.70	1	0
12	14	11	.47	.96	1	0	.70	1	0
13	5.6	2	.05	.88	1	0	.64	1	0
14	3.6	1	.01	.76	0	0	.64	1	0
15	2.8	0	0	.70	0	0	.64	1	0
16	4.1	3	.03	.64	0	0	.58	1	0
17	3.4	1	.01	.64	0	0	.58	1	0
18	3.1	1	.01	.58	1	0	.58	1	0
19	2.7	1	.01	.58	1	0	.58	1	0
20	2.1	1	.01	.52	1	0	.58	1	0
21	1.9	1	.01	.52	1	0	.58	1	0
22	1.6	1	0	.52	1	0	.58	1	0
23	1.5	1	0	.52	1	0	.58	1	0
24	1.4	1	0	.52	1	0	.58	1	0
25	1.1	1	0	.58	1	0	.58	1	0
26	1.0	1	0	.64	1	0	.64	2	0
27	1.0	1	0	.64	1	0	.70	2	0
28	1.0	1	0	.70	1	0	.70	1	0
29	1.0	1	0	--	--	--	.70	1	0
30	1.0	1	0	--	--	--	.70	1	0
31	1.0	1	0	--	--	--	.70	1	0
TOTAL	65.46	--	.72	21.46	--	0	19.66	--	0

PYRAMID AND WINNEMUCCA LAKES BASIN  
10336650 QUAIL LAKE CREEK NEAR HOMEWOOD, CALIF.--Continued

61

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	.70	1	0	6.9	1	.02	9.9	2	.05
2	.70	1	0	7.5	2	.04	8.7	2	.05
3	.76	1	0	8.3	3	.07	7.5	2	.04
4	.82	1	0	7.7	2	.04	6.6	2	.04
5	1.0	1	0	6.1	2	.03	4.5	2	.03
6	1.2	1	0	5.2	2	.03	2.1	2	.01
7	1.4	2	.01	5.9	2	.03	1.9	2	.01
8	1.4	2	.01	7.5	3	.06	1.6	3	.01
9	1.6	3	.01	8.0	3	.06	1.5	2	.01
10	2.1	3	.02	9.9	3	.08	2.0	2	.01
11	2.7	3	.02	12	3	.10	3.1	2	.02
12	3.0	2	.02	14	4	.15	3.2	2	.02
13	3.2	2	.02	17	5	.23	3.1	2	.02
14	3.0	1	.01	22	12	.71	2.8	2	.02
15	2.7	1	.01	22	12	.71	3.1	2	.02
16	2.7	1	.01	22	5	.30	3.0	2	.02
17	3.0	1	.01	21	4	.23	2.8	1	.01
18	2.7	1	.01	20	4	.22	2.6	1	.01
19	2.7	1	.01	18	3	.15	2.6	1	.01
20	2.6	1	.01	15	2	.08	2.4	2	.01
21	2.4	1	.01	12	2	.06	2.3	2	.01
22	3.0	1	.01	11	2	.06	2.4	2	.01
23	3.5	1	.01	11	3	.09	2.3	2	.01
24	4.4	2	.02	11	2	.06	2.2	2	.01
25	4.6	2	.02	12	1	.03	1.9	2	.01
26	6.4	2	.03	9.5	1	.03	2.0	2	.01
27	8.0	2	.04	8.3	1	.02	1.8	2	.01
28	9.1	2	.05	8.3	2	.04	1.6	2	.01
29	8.3	2	.04	9.1	1	.02	1.5	2	.01
30	7.7	2	.04	9.9	1	.03	1.3	2	.01
31	--	--	--	10	1	.03	--	--	--
TOTAL	97.38	--	.45	368.1	--	3.81	94.7	--	.52

DAY	JULY			AUGUST			SEPTEMBER		
	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	1.1	2	.01	.37	2	0	.33	1	0
2	1.4	2	.01	.82	2	0	.33	1	0
3	1.2	2	.01	.47	2	0	.33	1	0
4	1.1	2	.01	.37	2	0	.29	2	0
5	.96	2	.01	.37	2	0	.29	2	0
6	.76	2	0	.37	2	0	.29	2	0
7	.76	2	0	.37	2	0	.29	2	0
8	.70	3	.01	.37	2	0	.29	2	0
9	.64	3	.01	.33	2	0	.29	1	0
10	.58	2	0	.33	2	0	.29	1	0
11	.52	2	0	.37	2	0	.29	1	0
12	.42	1	0	.37	2	0	.26	1	0
13	.37	1	0	.37	3	0	.26	1	0
14	.37	1	0	.37	1	0	.26	1	0
15	.33	1	0	.37	3	0	.26	1	0
16	.38	2	0	.37	2	0	.26	1	0
17	.37	2	0	.37	2	0	.29	1	0
18	.42	2	0	.37	2	0	.29	1	0
19	.42	2	0	.37	2	0	.29	1	0
20	.33	2	0	.37	2	0	.33	1	0
21	.29	2	0	.37	2	0	.33	2	0
22	.29	1	0	.37	2	0	.33	2	0
23	.29	1	0	.37	2	0	.37	2	0
24	.29	1	0	.42	1	0	.37	3	0
25	.33	2	0	.42	1	0	.37	2	0
26	.33	3	0	.47	1	0	.37	1	0
27	.33	3	0	.47	1	0	.33	1	0
28	.33	2	0	.42	1	0	.33	1	0
29	.29	2	0	.37	1	0	.29	1	0
30	.29	2	0	.37	1	0	.29	2	0
31	.29	2	0	.33	1	0	--	--	--
TOTAL	16.48	--	.07	12.25	--	0	9.19	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)  
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

774.29  
6.03

## PYRAMID AND WINNEMUCCA LAKES BASIN

10336655 MADDEN CREEK NEAR HOMEWOOD, CALIF.

LOCATION.--Lat 39°05'14", long 120°10'24", in NE¼SE¼ sec.2, T.14 N., R.16 E., Placer County, Tahoe National Forest, at gaging station on right bank 1.0 mile northwest of Homewood Post Office.

DRAINAGE AREA.--1.40 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1973.  
Sediment records: October 1971 to September 1973.

## EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 10 mg/l May 16; minimum daily, 0 mg/l on many days.  
Sediment discharge: Maximum daily, 0.86 ton May 16; minimum daily, 0 tons on many days.

## Period of record:

Sediment concentrations: Maximum daily, 434 mg/l Sept. 26, 1972; minimum daily, 0 mg/l on many days each year.  
Sediment discharge: Maximum daily, 5.0 tons Sept. 26, 1972; minimum daily, 0 tons on many days each year.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	5.0	---	15.5	---
2	7.0	---	---	0.0	---	1.0	---	3.0	---	10.5	---	---
3	6.5	2.0	---	---	---	---	2.5	3.5	---	---	---	---
4	---	---	---	---	---	---	---	3.0	7.5	---	---	---
5	---	---	---	---	---	1.5	---	---	---	13.0	---	---
6	6.0	0.5	---	---	---	---	---	---	7.0	---	14.0	---
7	---	---	---	---	1.0	---	---	4.0	---	---	---	---
8	---	---	---	---	---	---	---	---	11.5	---	---	---
9	6.5	---	---	---	---	---	---	2.5	---	12.5	12.0	---
10	---	---	---	---	---	---	2.5	---	---	---	---	---
11	---	---	---	0.0	---	---	---	3.5	8.5	---	---	---
12	---	---	---	---	---	---	---	---	---	---	13.0	---
13	---	---	---	---	---	0.0	2.0	---	---	12.5	---	8.5
14	---	---	---	2.5	---	---	---	---	10.0	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	0.0	---	1.5	---	---	---	---	---	---
17	---	---	---	1.0	---	---	2.5	---	---	---	11.5	---
18	---	---	---	---	---	---	---	---	13.0	12.0	---	---
19	---	1.0	2.0	---	---	1.0	---	---	---	---	---	---
20	4.5	---	---	---	1.0	---	---	---	---	---	---	---
21	---	---	3.0	---	---	---	---	---	12.0	---	---	---
22	---	---	---	1.0	---	---	---	---	---	---	12.5	---
23	5.0	---	---	---	---	---	3.5	---	---	11.0	---	---
24	---	---	---	---	1.0	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	9.0	---	---	8.0
26	---	1.0	2.0	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	11.0	---	8.0
28	---	---	---	1.0	---	0.5	2.5	11.5	13.0	---	12.0	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	0.0	---	---	---	---	3.0	5.5	---	---	---	---
31	---	---	---	1.0	---	2.5	---	---	---	---	12.5	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
DEC. 19...	1000	2.0	--	17	1	.05	77	100
APR. 28...	1010	2.5	--	13	2	.07	100	--
MAY 02...	1830	2.0	--	16	4	.17	100	--
09...	1910	--	17	--	7	.32	24	--
16...	1110	--	--	29	10	.78	59	--
JUNE 05...	1200	--	--	20	1	.05	33	--
JULY 05...	1445	13.0	--	3.5	5	.05	58	--
AUG. 09...	1125	12.0	--	.86	2	.00	100	--



10356655 MADDEN CREEK NEAR HOMEWOOD, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	1.0	2	.01	.74	0	0	.74	2	0
2	.76	2	0	.74	0	0	.70	2	0
3	.78	1	0	1.1	1	0	.66	2	0
4	.74	1	0	2.9	5	.05	.60	2	0
5	.70	0	0	1.3	4	.01	.58	2	0
6	.70	0	0	1.0	4	.01	.57	2	0
7	.94	2	0	1.0	3	.01	.57	2	0
8	.90	0	0	.95	2	.01	.57	2	0
9	.90	1	0	.90	1	0	.58	1	0
10	1.4	2	.01	.86	1	0	.60	1	0
11	1.4	3	0	.86	1	0	.62	1	0
12	1.8	2	.01	.82	1	0	.66	1	0
13	1.0	0	0	.86	1	0	.68	1	0
14	.86	0	0	.90	0	0	.70	1	0
15	.86	0	0	.86	0	0	.70	1	0
16	.90	0	0	.86	0	0	.94	1	0
17	.90	0	0	.82	0	0	19	5	.28
18	1.1	0	0	.82	0	0	13	4	.14
19	1.0	0	0	.82	0	0	19	4	.21
20	1.0	0	0	.78	0	0	10	2	.05
21	.90	0	0	.78	0	0	8.6	1	.02
22	.86	0	0	.78	0	0	9.4	1	.03
23	.82	0	0	.78	0	0	6.5	1	.02
24	.82	0	0	.78	0	0	5.5	0	0
25	.78	0	0	.78	0	0	4.9	0	0
26	.78	0	0	.74	0	0	4.5	0	0
27	.78	0	0	.74	1	0	4.3	0	0
28	.78	0	0	.74	1	0	3.9	0	0
29	.70	0	0	.74	2	0	3.7	0	0
30	.70	0	0	.74	2	0	3.5	0	0
31	.66	0	0	--	--	--	3.3	0	0
TOTAL	28.22	--	.03	27.49	--	.09	129.57	--	.75

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	2.9	0	0	2.0	1	.01	1.2	3	.01
2	2.8	0	0	2.0	1	.01	1.1	3	.01
3	2.8	0	0	1.8	1	0	1.1	4	.01
4	2.8	0	0	1.7	1	0	1.2	5	.02
5	2.4	0	0	1.6	2	.01	1.2	6	.02
6	2.4	0	0	1.6	2	.01	1.2	5	.02
7	2.3	0	0	1.6	2	.01	1.2	4	.01
8	2.3	0	0	1.5	2	.01	1.2	3	.01
9	2.4	0	0	1.5	1	0	1.1	3	.01
10	2.2	0	0	1.6	1	0	1.2	3	.01
11	3.1	2	.02	1.6	1	0	1.2	2	.01
12	11	4	.09	1.6	1	0	1.1	2	.01
13	7.2	1	.02	1.6	0	0	1.1	2	.01
14	5.3	1	.01	1.5	0	0	1.1	2	.01
15	4.5	1	.01	1.5	0	0	1.0	1	0
16	4.7	1	.01	1.5	0	0	1.0	1	0
17	3.7	0	0	1.5	0	0	1.1	2	.01
18	3.9	0	0	1.4	0	0	1.0	3	.01
19	3.3	0	0	1.4	0	0	1.0	4	.01
20	2.9	0	0	1.3	0	0	1.0	3	.01
21	2.8	0	0	1.3	0	0	1.0	3	.01
22	2.6	0	0	1.3	1	0	1.0	2	.01
23	2.6	0	0	1.3	1	0	1.0	2	.01
24	2.6	0	0	1.3	2	.01	1.0	2	.01
25	2.4	1	.01	1.3	2	.01	1.0	2	.01
26	2.4	1	.01	1.2	2	.01	1.0	2	.01
27	2.4	1	.01	1.2	2	.01	1.1	1	0
28	2.3	1	.01	1.2	3	.01	1.1	1	0
29	2.2	1	.01	--	--	--	1.0	1	0
30	2.2	1	.01	--	--	--	1.0	2	.01
31	2.0	1	.01	--	--	--	1.1	2	.01
TOTAL	101.4	--	.23	41.9	--	.11	33.6	--	.29

## PYRAMID AND WINNEMUCCA LAKES BASIN

10336655 MADDEN CREEK NEAR HOMEWOOD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	1.0	2	.01	12	4	.13	21	1	.06
2	1.0	1	0	13	3	.11	20	1	.05
3	1.0	1	0	14	2	.08	20	1	.05
4	1.0	1	0	14	1	.04	20	2	.11
5	1.3	2	.01	11	1	.03	20	1	.05
6	1.7	3	.01	11	2	.06	20	1	.05
7	2.0	3	.02	12	2	.06	20	2	.11
8	2.2	2	.01	14	3	.11	20	3	.16
9	2.6	2	.01	15	4	.16	20	3	.16
10	3.1	2	.02	16	4	.17	19	2	.10
11	3.9	1	.01	17	3	.14	18	2	.10
12	4.5	1	.01	23	4	.25	17	2	.09
13	4.3	1	.01	29	5	.39	16	2	.09
14	3.9	1	.01	32	6	.52	13	2	.07
15	3.7	1	.01	30	8	.65	11	2	.06
16	3.5	1	.01	32	10	.86	9.8	2	.05
17	3.5	1	.01	33	9	.80	8.6	2	.05
18	3.5	1	.01	32	7	.60	7.8	2	.04
19	3.5	1	.01	29	5	.39	6.5	2	.04
20	3.5	1	.01	25	3	.20	6.0	2	.03
21	3.7	2	.02	23	2	.12	7.8	2	.04
22	4.7	3	.04	22	2	.12	8.2	2	.04
23	6.0	3	.05	21	2	.11	7.8	2	.04
24	7.0	3	.06	22	2	.12	7.0	3	.06
25	7.8	3	.06	23	1	.06	6.8	3	.06
26	9.4	4	.10	21	1	.06	7.0	3	.06
27	14	4	.15	19	1	.05	6.8	4	.07
28	15	4	.16	17	1	.05	6.8	5	.09
29	14	5	.19	18	1	.05	6.2	4	.07
30	13	5	.18	22	1	.06	5.8	3	.05
31	--	--	--	22	1	.06	--	--	--
TOTAL	149.3	--	1.20	644	--	6.61	383.9	--	2.10
DAY	JULY			AUGUST			SEPTEMBER		
	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	5.1	2	.03	.95	2	.01	.55	0	0
2	4.7	2	.03	.95	2	.01	.55	0	0
3	4.3	3	.03	.95	3	.01	.55	0	0
4	3.9	4	.04	.95	3	.01	.52	0	0
5	3.7	5	.05	.90	4	.01	.52	0	0
6	3.5	4	.04	.86	4	.01	.52	1	0
7	3.1	3	.03	.86	3	.01	.52	1	0
8	2.9	2	.02	.86	3	.01	.52	1	0
9	2.8	1	.01	.86	2	0	.52	1	0
10	2.6	1	.01	1.2	2	.01	.52	1	0
11	2.3	1	.01	.95	1	0	.49	1	0
12	2.2	2	.01	.82	1	0	.49	1	0
13	2.2	2	.01	.82	1	0	.49	1	0
14	2.2	2	.01	.78	1	0	.49	1	0
15	2.0	2	.01	.74	1	0	.49	1	0
16	1.8	2	.01	.74	1	0	.49	1	0
17	1.7	2	.01	.78	1	0	.49	1	0
18	1.7	2	.01	.90	1	0	.49	1	0
19	1.5	2	.01	.70	1	0	.49	1	0
20	1.4	2	.01	.66	1	0	.62	3	.01
21	1.4	2	.01	.66	1	0	.55	1	0
22	1.3	2	.01	.62	1	0	.52	1	0
23	1.3	2	.01	.62	2	0	.55	1	0
24	1.2	2	.01	.62	1	0	.55	1	0
25	1.1	3	.01	.62	1	0	.52	1	0
26	1.1	3	.01	.74	2	0	.52	2	0
27	1.1	4	.01	.70	1	0	.52	2	0
28	1.0	4	.01	.62	0	0	.52	2	0
29	1.0	3	.01	.62	0	0	.52	2	0
30	.95	3	.01	.55	0	0	.52	2	0
31	.95	2	.01	.55	0	0	--	--	--
TOTAL	68.00	--	.50	24.15	--	.09	15.61	--	.01

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

1647.14

12.01

## PYRAMID AND WINNEMUCCA LAKES BASIN

65

10336658 MADDEN CREEK AT HOMEWOOD, CALIF.

LOCATION.--Lat 39°05'27", long 120°09'42", in SE¼NW¼ sec.1, T.14 N., R.16 E., Placer County, Tahoe National Forest, at gaging station on left bank downstream from culvert on State Highway 89, and 0.7 mile north of Homewood Post Office.

DRAINAGE AREA.--2.06 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1973.

Sediment records: October 1971 to September 1973.

EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 54 mg/l May 14; minimum daily, 0 mg/l on many days.

Sediment discharge: Maximum daily, 8.1 tons May 15; minimum daily, 0 tons on many days.

Period of record:

Sediment concentrations: Maximum daily, 54 mg/l May 14, 1973; minimum daily, 0 mg/l on many days each year.

Sediment discharge: Maximum daily, 8.1 tons May 15, 1973; minimum daily, 0 tons on many days each year.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	0.0	0.0	---	---	---	5.5	---	15.5	---
2	7.5	---	---	---	---	1.0	1.0	4.0	---	11.0	---	---
3	8.5	2.0	---	---	---	---	---	---	---	14.0	---	---
4	---	2.0	---	0.0	---	---	---	2.5	5.5	---	---	---
5	---	1.5	0.0	---	0.0	1.0	---	---	---	---	---	---
6	7.0	1.0	---	---	---	---	---	---	9.0	11.5	14.5	---
7	---	---	---	---	---	---	---	3.5	11.0	---	---	---
8	---	---	0.0	0.0	---	1.5	---	---	10.5	---	---	---
9	7.0	---	---	---	---	---	3.0	4.0	---	13.0	16.0	---
10	6.5	0.0	---	---	---	---	---	---	---	---	---	---
11	---	---	0.0	0.0	---	---	---	4.0	10.0	---	---	---
12	---	---	---	0.0	0.0	---	---	---	---	---	14.0	---
13	---	0.5	---	2.0	---	0.0	2.0	---	---	14.0	---	13.0
14	---	---	---	2.0	---	---	---	9.0	9.5	---	---	---
15	---	---	0.0	1.0	1.0	---	---	---	---	---	---	---
16	---	---	---	0.0	---	1.0	3.0	4.5	---	---	---	---
17	---	0.5	---	0.0	---	---	---	---	---	---	14.5	---
18	---	---	2.0	---	---	---	1.0	3.5	7.0	13.5	---	---
19	---	---	2.0	0.0	---	0.5	---	---	---	---	---	---
20	5.0	0.5	2.5	---	0.0	---	2.5	---	---	---	---	---
21	---	---	3.5	---	---	---	---	5.5	11.0	---	---	---
22	---	---	1.0	0.0	---	1.0	---	9.0	---	---	12.0	---
23	3.5	---	---	---	0.0	1.0	3.5	7.0	---	11.5	---	---
24	---	0.0	---	---	---	---	---	---	---	---	---	---
25	---	---	---	0.0	---	---	2.5	4.0	9.0	---	---	8.0
26	---	---	---	---	---	1.5	---	---	---	---	---	---
27	4.0	0.0	1.0	---	2.0	---	4.0	---	---	13.5	---	8.0
28	---	---	---	---	---	---	---	6.0	14.0	---	12.5	---
29	---	0.0	0.0	0.0	---	---	---	---	---	---	---	---
30	---	0.0	---	---	---	0.5	3.0	6.0	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	13.5	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SFD. SIEVE DIAM. % FINER THAN .062 MM
APR. 26...	1700	--	13	21	.74	34
MAY 09...	1810	--	23	9	.56	24
16...	1800	4.5	76	58	12	23
23...	1530	7.0	42	7	.79	38
30...	1900	5.0	41	3	.33	100
JUNE 07...	--	11.0	24	30	1.9	100
JULY 03...	1420	14.0	4.1	3	.03	31
AUG. 09...	1410	16.0	.16	2	.00	100
SEP. 13...	1140	13.0	.04	4	.00	100

## PYRAMID AND WINNEMUCCA LAKES BASIN

10336658 MADDEN CREEK AT HOMEWOOD, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.30	1	0	.32	0	0	.52	1	0
2	.41	1	0	.32	0	0	.52	1	0
3	.35	0	0	.61	4	.02	.48	1	0
4	.30	0	0	2.6	11	.09	.43	1	0
5	.28	0	0	1.2	1	0	.40	1	0
6	.26	0	0	.83	1	0	.37	1	0
7	.38	1	0	.77	1	0	.36	2	0
8	.32	2	0	.66	1	0	.37	2	0
9	.30	1	0	.66	1	0	.37	2	0
10	.59	3	0	.66	1	0	.38	3	0
11	.62	3	0	.66	1	0	.40	3	0
12	1.2	2	.01	.61	1	0	.42	2	0
13	.56	1	0	.61	1	0	.44	1	0
14	.35	0	0	.71	1	0	.44	1	0
15	.30	0	0	.71	1	0	.44	1	0
16	.32	0	0	.66	1	0	.60	3	0
17	.44	0	0	.56	1	0	14	14	.57
18	.56	0	0	.56	1	0	9.5	5	.15
19	.61	0	0	.56	1	0	16	8	.35
20	.61	0	0	.52	1	0	9.3	2	.05
21	.48	0	0	.48	1	0	9.0	2	.05
22	.44	0	0	.48	1	0	7.8	2	.04
23	.38	0	0	.48	1	0	6.0	2	.03
24	.35	0	0	.52	1	0	5.3	2	.03
25	.32	0	0	.52	1	0	4.5	1	.01
26	.32	0	0	.52	1	0	3.9	1	.01
27	.32	0	0	.52	1	0	3.7	1	.01
28	.30	0	0	.52	1	0	3.3	1	.01
29	.28	0	0	.52	2	0	2.8	1	.01
30	.27	1	0	.48	1	0	2.8	1	.01
31	.28	1	0	--	--	--	2.8	1	.01
TOTAL	12.80	--	.01	19.83	--	.11	107.64	--	1.34
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	2.5	2	.01	1.8	1	0	.90	0	0
2	2.4	2	.01	1.8	1	0	.90	0	0
3	2.4	2	.01	1.6	1	0	.90	0	0
4	2.4	2	.01	1.6	0	0	.97	0	0
5	2.0	2	.01	1.4	0	0	.90	0	0
6	1.9	2	.01	1.4	0	0	.90	1	0
7	1.8	2	.01	1.3	0	0	.90	1	0
8	1.9	3	.02	1.2	0	0	.90	1	0
9	2.0	2	.01	1.2	0	0	.83	1	0
10	1.9	1	.01	1.2	0	0	.90	1	0
11	3.4	2	.02	1.2	0	0	.90	1	0
12	17	8	.42	1.0	0	0	.90	1	0
13	7.8	2	.04	.97	0	0	.90	1	0
14	5.5	1	.01	.97	0	0	.83	1	0
15	4.7	1	.01	.97	0	0	.83	1	0
16	4.9	1	.01	.90	0	0	.83	1	0
17	3.9	1	.01	.90	0	0	.90	1	0
18	3.6	1	.01	.90	0	0	.90	1	0
19	3.3	1	.01	.90	0	0	.90	1	0
20	3.0	1	.01	.90	0	0	.90	1	0
21	3.1	0	0	.90	0	0	.90	1	0
22	2.8	0	0	.90	1	0	.77	1	0
23	2.8	0	0	.90	1	0	.77	0	0
24	2.5	0	0	.90	1	0	.77	1	0
25	2.5	0	0	.90	1	0	.83	1	0
26	2.4	0	0	.90	1	0	.90	1	0
27	2.2	0	0	.97	1	0	.90	1	0
28	2.0	1	.01	.90	1	0	.83	0	0
29	1.9	1	.01	--	--	--	.83	0	0
30	1.9	1	.01	--	--	--	.83	0	0
31	1.8	1	0	--	--	--	.83	0	0
TOTAL	104.2	--	.69	31.38	--	0	26.95	--	0

## 10336658 MADDEN CREEK AT HOMEWOOD, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	.83	0	0	14	4	.15	34	5	.46
2	.83	0	0	14	4	.15	30	4	.32
3	.83	0	0	16	5	.22	28	3	.23
4	.97	1	0	16	3	.13	26	3	.21
5	1.4	2	.01	13	2	.07	26	4	.28
6	2.0	2	.01	12	2	.06	27	3	.22
7	2.5	2	.01	13	4	.14	26	3	.21
8	2.5	2	.01	15	5	.20	26	3	.21
9	3.0	2	.02	18	5	.24	25	3	.20
10	3.4	2	.02	23	10	.62	24	2	.13
11	4.1	2	.02	31	16	1.3	21	1	.06
12	4.9	1	.01	38	35	3.6	18	2	.10
13	4.9	1	.01	48	47	6.1	16	2	.09
14	4.3	1	.01	55	54	8.0	14	2	.08
15	4.1	1	.01	58	52	8.1	12	2	.06
16	3.7	2	.02	63	39	6.6	11	3	.09
17	3.7	1	.01	65	28	4.9	9.2	4	.10
18	3.7	1	.01	63	28	4.8	8.7	5	.12
19	3.7	2	.02	57	25	3.8	6.8	4	.07
20	3.7	3	.03	49	21	2.8	5.8	3	.05
21	4.1	3	.03	41	17	1.9	7.8	2	.04
22	4.9	3	.04	38	10	1.0	8.4	2	.05
23	6.0	3	.05	38	8	.82	8.1	3	.07
24	7.2	4	.08	39	4	.42	7.2	3	.06
25	8.4	4	.09	40	3	.32	7.0	4	.08
26	9.6	12	.31	34	2	.18	7.0	4	.08
27	14	14	.53	30	3	.24	6.8	3	.06
28	15	13	.53	31	4	.33	6.5	3	.05
29	15	8	.32	35	3	.28	6.0	3	.05
30	14	5	.19	37	2	.20	5.5	2	.03
31	--	--	--	35	2	.19	--	--	--
TOTAL	157.26	--	2.40	1079	--	57.86	464.9	--	3.86

DAY	JULY			AUGUST			SEPTEMBER		
	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	4.9	1	.01	.35	1	0	.09	2	0
2	4.5	1	.01	.30	1	0	.10	2	0
3	4.1	2	.02	.28	1	0	.08	2	0
4	3.9	2	.02	.30	1	0	.08	3	0
5	3.4	2	.02	.30	1	0	.08	3	0
6	3.2	2	.02	.26	1	0	.06	3	0
7	3.0	2	.02	.24	1	0	.08	1	0
8	2.6	2	.01	.22	2	0	.04	3	0
9	2.5	2	.01	.20	2	0	.01	3	0
10	2.2	2	.01	.56	2	0	0	4	0
11	1.9	1	.01	.32	2	0	.06	4	0
12	1.6	1	0	.24	2	0	.04	4	0
13	1.6	1	0	.22	2	0	.01	4	0
14	1.6	1	0	.16	2	0	0	4	0
15	1.4	1	0	.15	2	0	0	4	0
16	1.4	1	0	.13	2	0	0	4	0
17	1.2	1	0	.09	2	0	0	4	0
18	1.2	1	0	.35	2	0	0	4	0
19	.90	1	0	.15	2	0	.02	4	0
20	.90	1	0	.12	2	0	.14	4	0
21	.77	2	0	.13	3	0	.10	3	0
22	.71	2	0	.11	2	0	.09	3	0
23	.66	2	0	.11	2	0	.12	3	0
24	.56	2	0	.12	1	0	.10	2	0
25	.52	1	0	.13	1	0	.10	2	0
26	.52	1	0	.26	1	0	.09	2	0
27	.48	1	0	.26	0	0	.07	2	0
28	.44	1	0	.18	0	0	.05	2	0
29	.44	1	0	.16	1	0	0	2	0
30	.38	1	0	.14	2	0	.05	2	0
31	.35	1	0	.13	2	0	--	--	--
TOTAL	53.83	--	.16	6.67	--	0	1.66	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

2066.12

66.43

## PYRAMID AND WINNEMUCCA LAKES BASIN

10336670 WARD CREEK NEAR TAHOE PINES, CALIF.

LOCATION.--Lat 39°08'09", long 120°13'11", in SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec.21, T.15 N., R.16 E., Placer County, Tahoe National Forest, at gaging station 0.5 mile upstream from confluence with tributary, 3.9 miles northwest of Tahoe Pines, and 4.8 miles southwest of Tahoe City.

DRAINAGE AREA.--2.00 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1972 to September 1973.

Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 215 mg/l May 14, 16; minimum daily, 0 mg/l on several days.

Sediment discharge: Maximum daily, 41 tons May 16; minimum daily, 0 tons on many days.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	1.0	---	---	---	8.0	---	20.5	---
2	11.0	---	---	0.0	---	---	---	3.0	---	6.5	---	---
3	11.5	1.0	---	---	---	---	2.0	---	---	---	---	---
4	---	0.0	---	---	---	---	---	---	8.0	---	---	---
5	---	0.0	---	---	1.0	0.0	---	3.5	---	---	---	---
6	4.5	0.0	---	---	---	---	---	---	4.5	16.0	17.5	---
7	---	---	---	0.5	---	---	---	2.0	---	---	---	7.0
8	---	---	---	---	---	---	---	---	10.0	---	---	---
9	6.0	---	---	---	---	---	2.0	---	---	17.5	---	---
10	---	---	---	---	---	---	---	---	---	---	14.5	---
11	---	1.0	---	---	---	---	---	---	6.0	---	---	---
12	---	---	0.0	---	---	---	---	---	11.0	---	14.0	---
13	5.0	---	---	---	---	0.5	---	---	---	9.0	---	15.5
14	---	---	---	2.0	1.0	---	2.0	3.5	5.5	---	---	---
15	---	1.0	---	---	---	---	---	---	6.5	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	0.0	0.5	0.0	---	---	2.0	---	---	---	14.5	---
18	---	---	---	---	---	---	---	---	---	10.0	---	---
19	4.5	---	---	---	0.5	---	---	---	8.0	---	---	---
20	---	---	2.0	---	---	0.5	4.0	---	---	18.0	---	---
21	---	---	3.0	---	---	---	---	---	7.0	---	---	---
22	---	0.5	---	---	2.0	---	---	---	---	---	17.5	---
23	6.0	---	---	---	---	---	3.0	---	---	9.0	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	7.0	---	---	7.0
26	---	0.5	---	---	---	---	---	---	---	---	---	---
27	1.5	---	2.0	---	2.0	2.0	---	---	---	14.0	---	11.0
28	---	1.0	---	1.5	---	---	1.5	6.0	7.0	---	16.0	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	11.5	---	---	---
31	0.5	---	---	---	---	---	---	---	---	---	16.0	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (°C)	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT (T/DAY)	SUS- PENDED SEDIM- ENT (% FINE THAN 0.062 MM)
APP.							
23...	1130	3.0	--	5.8	3	.05	100
MAY							
02...	--	3.0	--	22	114	6.8	13
14...	1340	--	--	62	290	49	18
14...	1710	--	--	71	370	71	25
16...	1955	--	90	--	303	74	5
17...	2200	--	--	84	166	38	8
18...	1050	--	--	62	55	9.2	22
18...	1800	--	--	108	253	74	10
JUNE							
12...	1150	11.0	--	26	7	.49	44
JULY							
06...	1430	16.0	4.9	--	3	.04	53
AUG.							
06...	1300	17.5	--	.81	1	.00	100
SEP.							
13...	1540	15.5	--	.34	1	.00	100

10336670 WARD CREEK NEAR TAHOE PINES, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.63	4	.01	.58	1	0	.84	3	.01
2	.87	3	.01	.53	1	0	.80	3	.01
3	.63	2	0	.99	4	.03	.76	3	.01
4	.58	2	0	3.1	25	.22	.73	3	.01
5	.58	1	0	1.5	7	.03	.71	3	.01
6	.53	0	0	1.2	6	.02	.71	3	.01
7	1.4	8	.06	1.1	8	.02	.70	3	.01
8	.75	8	.02	1.0	5	.01	.69	3	.01
9	.81	6	.01	.95	2	.01	.69	3	.01
10	1.4	5	.02	.93	2	.01	.69	3	.01
11	1.2	3	.01	.87	2	0	.69	3	.01
12	.81	2	0	.87	2	0	.69	3	.01
13	.69	2	0	.88	2	0	.69	3	.01
14	.69	2	0	1.0	2	.01	.69	2	0
15	.63	1	0	1.2	2	.01	.69	1	0
16	.75	3	.01	1.1	2	.01	.84	2	0
17	.81	2	0	.87	2	0	18	69	4.4
18	1.2	13	.04	.87	2	0	13	35	1.7
19	.93	11	.03	.85	2	0	27	71	5.5
20	1.1	6	.02	.85	2	0	12	24	.78
21	.81	2	0	.83	2	0	8.5	12	.28
22	.75	2	0	.81	2	0	8.5	10	.23
23	.63	2	0	.81	3	.01	5.8	5	.08
24	.63	2	0	.82	4	.01	4.9	3	.04
25	.58	4	.01	.82	4	.01	4.6	3	.04
26	.58	5	.01	.83	5	.01	4.0	3	.03
27	.58	6	.01	.87	3	.01	3.8	3	.03
28	.58	6	.01	.93	3	.01	3.5	3	.03
29	.58	5	.01	.93	3	.01	3.2	3	.03
30	.58	5	.01	.90	3	.01	3.0	3	.02
31	.58	4	.01	--	--	--	2.8	3	.02
TOTAL	23.87	--	.31	29.79	--	.46	134.21	--	13.34
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	2.6	2	.01	2.4	2	.01	1.6	0	0
2	2.4	2	.01	2.4	2	.01	1.6	0	0
3	2.3	2	.01	2.4	2	.01	1.6	1	0
4	2.1	2	.01	2.3	1	.01	1.6	1	0
5	2.0	2	.01	2.3	1	.01	1.4	2	.01
6	2.0	1	.01	2.3	1	.01	1.4	2	.01
7	2.4	1	.01	2.3	1	.01	1.4	1	0
8	2.0	1	.01	2.1	1	.01	1.4	1	0
9	1.8	1	0	2.1	1	.01	1.4	1	0
10	1.8	1	0	1.9	2	.01	1.4	1	0
11	3.2	2	.02	1.8	2	.01	1.4	1	0
12	26	18	1.4	1.8	2	.01	1.4	1	0
13	11	15	.45	1.8	2	.01	1.4	1	0
14	6.2	6	.10	1.8	2	.01	1.4	1	0
15	5.2	4	.06	1.8	2	.01	1.4	0	0
16	4.7	3	.04	1.8	2	.01	1.4	0	0
17	4.5	3	.04	1.8	1	0	1.4	0	0
18	4.1	5	.06	1.8	1	0	1.4	1	0
19	3.9	5	.05	1.7	1	0	1.4	1	0
20	3.7	5	.05	1.7	1	0	1.4	1	0
21	3.5	4	.04	1.7	0	0	1.4	2	.01
22	3.3	4	.04	1.7	0	0	1.4	3	.01
23	3.2	4	.03	1.7	0	0	1.4	4	.02
24	3.2	4	.03	1.7	0	0	1.4	3	.01
25	3.0	3	.02	1.7	1	0	1.4	3	.01
26	3.0	3	.02	1.7	1	0	1.4	2	.01
27	3.0	2	.02	1.7	1	0	1.4	1	0
28	2.8	2	.02	1.6	1	0	1.4	1	0
29	2.7	2	.01	--	--	--	1.4	1	0
30	2.4	2	.01	--	--	--	1.4	1	0
31	2.4	2	.01	--	--	--	1.4	1	0
TOTAL	126.4	--	2.60	53.8	--	.16	44.2	--	.09

## PYRAMID AND WINNEMUCCA LAKES BASIN

10336670 WARD CREEK NEAR TAHOE PINES, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	1.2	1	0	13	35	1.2	52	75	11
2	1.2	1	0	15	50	2.0	46	25	3.1
3	1.2	1	0	17	60	2.8	40	25	2.7
4	1.4	1	0	13	30	1.1	37	17	1.7
5	1.8	1	0	9.4	10	.25	38	20	2.1
6	2.8	2	.02	9.4	17	.43	40	20	2.2
7	3.2	1	.01	14	35	1.3	38	23	2.4
8	3.5	2	.02	19	45	2.3	38	23	2.4
9	4.9	3	.04	20	70	3.8	38	22	2.3
10	5.5	4	.06	24	130	8.4	33	16	1.4
11	6.6	3	.05	31	115	9.6	30	15	1.2
12	6.9	3	.06	40	140	15	27	8	.58
13	5.5	4	.06	52	170	24	24	8	.52
14	4.3	3	.03	62	215	36	21	7	.40
15	4.0	2	.02	66	195	35	18	5	.24
16	3.8	2	.02	71	215	41	16	5	.22
17	3.8	1	.01	75	180	36	14	4	.15
18	3.5	1	.01	77	170	35	13	4	.14
19	3.5	1	.01	71	130	25	13	3	.11
20	3.5	1	.01	62	77	13	13	4	.14
21	4.0	2	.02	52	25	3.5	14	6	.23
22	5.8	5	.08	53	30	4.3	14	4	.15
23	8.5	8	.18	53	40	5.7	12	3	.10
24	10	14	.38	53	30	4.3	12	2	.06
25	12	25	.81	50	20	2.7	11	2	.06
26	14	35	1.3	40	20	2.2	12	3	.10
27	17	50	2.3	40	25	2.7	13	3	.11
28	17	55	2.5	52	30	4.2	12	4	.13
29	14	32	1.2	64	35	6.0	11	3	.09
30	13	20	.70	64	40	6.9	9.0	2	.05
31	--	--	--	58	35	5.5	--	--	--
TOTAL	187.4	--	9.90	1339.8	--	341.18	709.0	--	36.08

DAY	JULY			AUGUST			SEPTEMBER		
	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	8.1	2	.04	1.0	2	.01	.43	1	0
2	6.9	3	.06	.93	2	.01	.43	1	0
3	6.6	3	.05	.93	2	.01	.43	1	0
4	5.8	3	.05	.93	1	0	.38	1	0
5	5.2	3	.04	.87	1	0	.38	1	0
6	5.2	3	.04	.81	1	0	.38	1	0
7	4.6	2	.02	.81	1	0	.34	1	0
8	4.3	2	.02	.75	1	0	.34	1	0
9	4.0	2	.02	.75	0	0	.34	1	0
10	3.5	2	.02	.75	0	0	.34	1	0
11	3.2	2	.02	.75	1	0	.34	1	0
12	3.0	2	.02	.69	1	0	.34	1	0
13	2.8	2	.02	.69	1	0	.34	1	0
14	2.6	2	.01	.69	1	0	.34	0	0
15	2.4	2	.01	.63	1	0	.34	0	0
16	2.3	2	.01	.63	1	0	.34	1	0
17	2.1	2	.01	.58	1	0	.34	1	0
18	2.1	2	.01	.58	1	0	.34	1	0
19	2.0	2	.01	.58	1	0	.34	1	0
20	1.8	1	0	.58	1	0	.95	34	.13
21	1.7	2	.01	.58	2	0	.38	2	0
22	1.6	4	.02	.58	2	0	.38	2	0
23	1.6	6	.03	.58	2	0	.58	5	.01
24	1.4	5	.02	.58	2	0	.48	2	0
25	1.4	4	.02	.63	2	0	.43	2	0
26	1.2	3	.01	1.6	8	.06	.38	1	0
27	1.2	1	0	.69	3	.01	.34	1	0
28	1.2	1	0	.53	3	0	.34	1	0
29	1.2	1	0	.48	2	0	.34	1	0
30	1.1	2	.01	.43	1	0	.34	1	0
31	1.0	2	.01	.43	1	0	--	--	--
TOTAL	93.1	--	.61	22.04	--	.10	11.79	--	.14

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

2775.40  
404.97



## PYRAMID AND WINNEMUCCA LAKES BASIN

71

## 10336672 WARD CREEK TRIBUTARY NEAR TAHOE PINES, CALIF.

LOCATION.--Lat 39°08'29", long 120°13'06", in SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec.16, T.15 N., R.16 E., Placer County, at gaging station 0.3 mile upstream from confluence with Ward Creek, 4.0 miles northwest of Tahoe Pines, and 4.5 miles southwest of Tahoe City.

DRAINAGE AREA.--0.89 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1972 to September 1973.

Sediment records: October 1972 to September 1973.

## EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 129 mg/l May 14; minimum daily, 0 mg/l on many days.

Sediment discharge: Maximum daily, 14 tons May 14; minimum daily, 0 tons on many days.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	5.5	---	20.5	---
2	---	---	---	0.0	---	---	---	3.5	---	9.0	---	---
3	---	2.0	---	---	---	---	2.0	---	---	---	---	---
4	---	1.0	---	---	---	---	---	---	8.0	---	---	---
5	---	0.0	---	---	0.5	0.0	---	4.0	---	---	---	---
6	---	0.0	---	---	---	---	---	---	5.5	12.0	17.5	---
7	---	---	---	0.5	---	---	---	2.0	---	---	---	---
8	---	---	---	---	---	---	---	---	10.0	---	---	---
9	---	---	---	---	---	---	2.0	---	---	19.0	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	0.5	---	---	---	---	---	---	7.0	---	---	---
12	---	---	---	---	---	---	---	---	10.0	---	---	---
13	5.0	1.0	---	---	---	0.5	---	---	---	---	---	---
14	---	---	---	10.5	1.0	---	1.0	3.5	6.0	---	---	---
15	---	---	---	---	---	---	---	---	7.0	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	0.0	---	0.0	---	---	2.0	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	13.0	---	---
19	5.0	---	---	---	1.0	---	---	---	7.5	---	---	---
20	---	---	---	---	---	1.0	3.5	---	---	20.0	---	---
21	---	---	3.0	---	---	---	---	---	8.5	---	---	---
22	---	1.0	---	---	1.0	---	---	---	---	---	---	---
23	6.0	---	---	---	---	---	2.5	---	---	12.5	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	9.5	---	---	---
26	---	0.5	---	---	---	---	3.5	---	---	---	---	---
27	3.0	---	1.5	---	1.5	2.0	---	---	---	16.5	---	---
28	---	---	---	1.5	---	---	2.0	7.0	10.5	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	3.0	---	---	---	---	---
31	0.5	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT (T/DAY)	SUS. SFD. SIFVE DIAM. % FINER THAN .062 MM
APR. 23...	1100	2.5	4.0	2	.02	100
MAY 02...	1840	3.5	15	9	.36	44
14...	1510	2.5	42	147	17	47
14...	1810	--	48	305	40	56
17...	2000	--	45	53	6.4	31
18...	0200	--	30	25	2.0	37
18...	1830	--	39	150	16	7
JULY 06...	1050	12.0	.98	4	.01	44
AUG. 06...	1415	17.5	.08	1	.00	100

## PYRAMID AND WINNEMUCCA LAKES BASIN

10336672 WARD CREEK TRIBUTARY NEAR TAHOE PINES, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	0	0	0	.15	1	0	.77	1	0
2	0	0	0	.19	1	0	.77	0	0
3	0	0	0	.45	2	.01	.70	1	0
4	0	0	0	1.3	4	.02	.58	1	0
5	0	0	0	.56	1	0	.56	1	0
6	0	0	0	.38	1	0	.56	1	0
7	0	0	0	.35	1	0	.56	1	0
8	0	0	0	.33	1	0	.56	1	0
9	0	0	0	.28	1	0	.56	1	0
10	.19	0	0	.23	1	0	.56	1	0
11	.63	0	0	.23	1	0	.56	1	0
12	.23	0	0	.23	1	0	.56	1	0
13	.15	0	0	.28	1	0	.56	1	0
14	.08	0	0	.31	4	0	.50	1	0
15	.08	0	0	.38	5	.01	.50	1	0
16	.11	0	0	.38	6	.01	.55	3	.01
17	.28	0	0	.33	6	.01	6.7	54	1.3
18	.63	1	0	.28	5	0	9.4	30	.86
19	.77	3	.01	.33	4	0	17	62	3.1
20	.84	2	0	.38	4	0	7.7	7	.16
21	.63	0	0	.33	3	0	6.8	2	.04
22	.38	0	0	.33	1	0	6.1	2	.03
23	.33	0	0	.33	1	0	4.2	2	.02
24	.28	1	0	.33	1	0	3.4	2	.02
25	.23	2	0	.44	1	0	3.0	2	.02
26	.23	3	0	.50	1	0	2.7	1	.01
27	.19	3	0	.56	1	0	2.6	1	.01
28	.19	3	0	.56	1	0	2.5	1	.01
29	.15	2	0	.56	1	0	2.2	1	.01
30	.15	2	0	.70	1	0	1.9	1	.01
31	.11	1	0	--	--	--	1.8	0	0
TOTAL	6.86	--	.01	11.99	--	.06	87.41	--	5.61
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	1.7	1	0	1.0	1	0	.84	0	0
2	1.6	2	.01	1.0	1	0	.84	0	0
3	1.6	2	.01	.98	1	0	.84	0	0
4	1.6	1	0	.98	1	0	.77	0	0
5	1.6	1	0	.91	1	0	.77	0	0
6	1.5	1	0	.91	1	0	.70	0	0
7	1.4	0	0	.98	1	0	.70	0	0
8	1.4	0	0	.98	1	0	.70	0	0
9	1.3	0	0	.98	1	0	.70	0	0
10	1.3	0	0	.98	1	0	.70	0	0
11	1.5	2	.01	.94	1	0	.70	0	0
12	7.3	12	.26	.91	1	0	.70	0	0
13	4.3	4	.07	.91	1	0	.70	0	0
14	2.7	1	.01	.91	1	0	.70	0	0
15	2.3	1	.01	.91	1	0	.70	0	0
16	2.3	2	.01	.91	1	0	.70	0	0
17	1.9	3	.02	.91	1	0	.77	0	0
18	1.8	4	.02	.91	0	0	.70	0	0
19	1.7	3	.01	.91	0	0	.70	0	0
20	1.6	2	.01	.91	1	0	.70	0	0
21	1.6	2	.01	.91	1	0	.70	0	0
22	1.5	1	0	.84	1	0	.70	1	0
23	1.4	1	0	.84	1	0	.70	1	0
24	1.4	1	0	.84	1	0	.77	1	0
25	1.3	1	0	.84	1	0	.77	1	0
26	1.3	1	0	.84	1	0	.84	1	0
27	1.2	1	0	.84	0	0	.84	1	0
28	1.2	1	0	.84	0	0	.77	1	0
29	1.1	1	0	--	--	--	.77	1	0
30	1.1	1	0	--	--	--	.77	1	0
31	1.0	1	0	--	--	--	.77	1	0
TOTAL	56.5	--	.46	25.62	--	0	23.03	--	0



## PYRAMID AND WINNEMUCCA LAKES BASIN

## 10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CALIF.

LOCATION.--Lat 39°07'56", long 120°09'24", in NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec.24, T.15 N., R.16 E., Placer County, Tahoe National Forest, at gaging station 165 ft downstream from State Highway 89 bridge, 2.1 miles north of Tahoe Pines, and 2.6 miles southwest of Tahoe City.

DRAINAGE AREA.--9.7 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1972 to September 1973.

Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 170 mg/l May 14; minimum daily, 0 mg/l on many days.

Sediment discharge: Maximum daily, 98 tons May 14; minimum daily, 0 tons on many days.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	0.0	0.0	---	---	---	6.0	---	21.5	---
2	12.0	---	---	---	---	0.5	4.0	6.0	---	6.5	---	---
3	11.0	2.0	---	0.0	---	---	---	---	---	---	---	---
4	---	3.5	---	0.0	---	---	---	2.0	5.5	---	---	---
5	---	2.5	0.5	---	0.0	2.0	---	---	---	---	---	---
6	10.5	1.0	---	---	---	---	---	---	6.5	18.5	20.5	---
7	---	---	---	---	---	---	---	3.0	---	---	---	16.5
8	---	---	0.0	0.0	1.0	0.5	---	---	14.0	---	---	---
9	8.0	---	---	---	---	---	4.0	6.0	---	20.5	---	---
10	8.0	---	---	---	---	---	---	---	---	---	---	---
11	---	1.0	0.0	0.0	---	---	---	4.0	8.5	---	---	---
12	---	---	---	0.0	0.0	---	---	---	---	---	19.0	---
13	---	1.0	---	0.0	---	1.5	3.0	---	---	16.0	---	---
14	---	---	---	1.0	---	---	---	5.0	6.5	---	---	14.0
15	---	---	0.0	1.0	1.0	---	---	---	---	---	---	---
16	---	---	---	0.0	---	1.0	6.0	4.0	---	---	---	---
17	---	0.0	0.0	0.0	---	---	---	---	---	---	19.0	---
18	---	---	0.0	---	---	---	1.0	5.0	5.5	13.5	---	---
19	---	---	1.0	---	---	0.0	---	---	---	---	---	---
20	---	0.0	2.0	---	0.0	---	7.0	---	---	---	---	---
21	---	---	4.5	---	---	---	---	4.0	8.5	---	---	---
22	---	---	0.5	0.0	---	---	---	---	---	---	---	---
23	3.0	---	---	---	1.0	0.5	4.5	6.5	---	14.0	---	---
24	---	0.0	---	---	---	---	---	---	---	---	17.0	---
25	---	---	---	0.0	---	---	2.5	3.5	9.5	---	---	11.0
26	---	---	---	---	0.0	3.5	---	---	---	---	---	---
27	5.5	0.0	1.5	---	2.0	---	4.0	---	---	16.0	---	12.0
28	---	---	---	---	---	3.0	---	10.5	10.5	---	17.0	---
29	---	---	0.0	0.0	---	---	---	---	---	---	---	---
30	---	0.0	---	---	---	1.0	1.5	7.5	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	17.5	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC.										
20...	1040	2.0	46	21	2.6	49	--	--	--	--
APR.										
20...	1630	7.0	21	7	.40	46	--	--	--	--
25...	0840	2.5	47	6	.76	100	--	--	--	--
26...	1710	--	101	145	40	52	--	--	--	--
MAY										
09...	1930	--	129	66	23	50	--	--	--	--
16...	1810	5.0	298	207	167	43	58	75	89	100
17...	2200	--	241	165	107	27	--	--	--	--
18...	0200	--	217	56	33	27	--	--	--	--
18...	1000	5.0	170	33	15	25	--	--	--	--
18...	1410	8.0	217	96	56	24	--	--	--	--
18...	1540	--	247	323	215	33	--	--	--	--
18...	1800	3.5	284	360	276	31	--	--	--	--
31...	1800	--	155	40	17	29	--	--	--	--
JUN.										
24...	1350	17.0	1.2	2	.01	100	--	--	--	--
SEP.										
14...	1115	14.0	1.0	1	.00	100	--	--	--	--

## 10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	3.6	1	.01	4.0	2	.02	7.4	1	.02
2	4.2	1	.01	4.0	1	.01	7.3	1	.02
3	3.8	0	0	5.5	3	.09	7.0	1	.02
4	3.8	0	0	17	11	.54	6.6	1	.02
5	3.2	0	0	10	2	.05	6.3	1	.02
6	3.2	0	0	7.8	2	.04	6.0	1	.02
7	4.0	3	.03	7.6	2	.04	5.8	1	.02
8	4.8	3	.04	7.0	2	.04	5.7	1	.02
9	4.0	1	.01	6.6	1	.02	5.6	1	.02
10	6.0	1	.02	6.3	1	.02	5.6	1	.02
11	6.3	1	.02	6.0	1	.02	5.6	1	.02
12	5.0	1	.01	5.8	1	.02	5.7	1	.02
13	4.8	1	.01	6.3	2	.03	5.8	1	.02
14	4.2	1	.01	6.5	2	.04	5.9	1	.02
15	4.0	1	.01	6.6	2	.04	6.0	1	.02
16	4.0	1	.01	6.0	1	.02	6.0	1	.02
17	4.8	1	.01	5.9	1	.02	34	100	13
18	6.6	2	.04	5.8	1	.02	26	117	9.4
19	6.3	3	.05	5.8	2	.03	94	109	30
20	6.3	3	.05	5.8	3	.05	47	20	2.5
21	5.8	2	.03	5.8	3	.05	37	14	1.4
22	4.8	2	.03	5.8	2	.03	43	10	1.2
23	4.4	2	.02	5.8	2	.03	28	6	.45
24	4.2	2	.02	5.9	2	.03	22	4	.24
25	4.2	3	.03	6.0	2	.03	20	3	.16
26	4.2	3	.03	6.6	1	.02	18	2	.10
27	4.0	4	.04	6.8	1	.02	17	1	.05
28	4.0	4	.04	6.9	1	.02	16	1	.04
29	3.8	3	.03	7.0	2	.04	16	0	0
30	3.6	3	.03	7.5	2	.04	15	1	.04
31	3.8	2	.02	--	--	--	14	1	.04
TOTAL	139.7	--	.66	200.4	--	1.47	545.3	--	58.94
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	14	2	.08	11	4	.12	8.0	0	0
2	13	2	.07	9.3	1	.03	8.0	0	0
3	13	3	.11	9.3	1	.03	8.3	0	0
4	12	2	.06	9.3	1	.03	8.0	1	.02
5	12	2	.06	9.0	1	.02	8.3	1	.02
6	11	2	.06	9.0	1	.02	8.0	1	.02
7	11	1	.03	8.8	0	0	7.8	1	.02
8	11	1	.03	8.6	0	0	7.6	1	.02
9	11	1	.03	8.3	0	0	7.6	1	.02
10	11	1	.03	8.0	1	.02	7.8	1	.02
11	14	2	.09	7.8	1	.02	8.3	1	.02
12	76	23	5.3	7.8	2	.04	8.0	1	.02
13	51	17	2.5	7.8	1	.02	7.6	1	.02
14	25	8	.54	7.8	1	.02	7.8	1	.02
15	20	5	.27	7.8	0	0	7.8	1	.02
16	20	5	.27	7.8	0	0	7.8	1	.02
17	19	7	.36	7.8	1	.02	7.8	1	.02
18	17	4	.18	7.8	1	.02	8.3	1	.02
19	16	2	.09	7.8	2	.04	7.8	0	0
20	15	2	.08	7.8	2	.04	7.8	1	.02
21	14	1	.04	7.9	2	.04	7.8	1	.02
22	13	1	.04	8.0	1	.02	7.8	2	.04
23	12	1	.03	8.3	1	.02	8.0	2	.04
24	12	1	.03	8.3	1	.02	7.8	2	.04
25	11	1	.03	8.0	1	.02	8.0	1	.02
26	11	1	.03	7.8	1	.02	8.3	1	.02
27	11	2	.06	7.6	0	0	8.6	1	.02
28	10	2	.05	8.0	0	0	8.6	1	.02
29	10	3	.08	--	--	--	8.0	1	.02
30	10	3	.08	--	--	--	7.8	1	.02
31	10	3	.08	--	--	--	7.8	1	.02
TOTAL	516	--	10.79	232.5	--	.63	246.9	--	.60

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

APRIL				MAY				JUNE			
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)		
1	8.3	1	.02	70	14	2.6	125	20	6.8		
2	8.0	1	.02	77	20	4.2	111	14	4.2		
3	8.3	1	.02	85	22	5.0	101	12	3.3		
4	9.0	2	.05	73	8	1.6	91	11	2.7		
5	11	4	.12	51	3	.41	102	12	3.3		
6	15	8	.32	47	6	.76	102	9	2.5		
7	17	9	.41	68	16	2.9	94	9	2.3		
8	18	10	.49	87	24	5.6	94	7	1.8		
9	22	10	.59	94	34	8.6	96	6	1.6		
10	26	13	.91	114	50	15	83	6	1.3		
11	34	13	1.2	131	75	27	80	5	1.1		
12	37	10	1.0	153	90	37	70	4	.76		
13	30	5	.41	178	130	62	61	3	.49		
14	24	4	.26	214	170	98	49	3	.40		
15	23	4	.25	214	145	84	36	2	.19		
16	23	4	.25	223	130	78	33	2	.18		
17	26	3	.21	220	125	74	28	1	.08		
18	22	2	.12	223	145	87	26	1	.07		
19	20	3	.16	211	110	63	25	1	.07		
20	20	6	.32	180	105	51	23	0	0		
21	23	7	.43	151	85	35	23	0	0		
22	32	8	.69	149	55	22	24	0	0		
23	49	10	1.3	145	25	9.8	22	0	0		
24	55	12	1.8	145	30	12	20	1	.05		
25	63	18	3.1	141	30	11	19	1	.05		
26	74	55	11	111	14	4.2	20	1	.05		
27	88	70	17	107	16	4.6	19	2	.10		
28	93	34	8.5	118	22	7.0	18	2	.10		
29	83	30	6.7	133	24	8.6	18	2	.10		
30	72	12	2.3	137	22	8.1	16	1	.04		
31	--	--	--	135	26	9.5	--	--	--		
TOTAL	1033.6	--	59.95	4185	--	839.47	1629	--	33.63		
JULY				AUGUST				SEPTEMBER			
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)		
1	14	1	.04	2.4	2	.01	1.2	1	0		
2	13	0	0	2.4	2	.01	1.2	1	0		
3	12	0	0	2.2	2	.01	1.2	1	0		
4	11	1	.03	2.4	2	.01	1.0	1	0		
5	10	1	.03	2.4	2	.01	1.0	1	0		
6	9.6	1	.03	2.2	2	.01	1.0	1	0		
7	9.3	1	.03	2.0	2	.01	1.0	1	0		
8	8.8	0	0	1.9	2	.01	1.0	1	0		
9	8.3	0	0	1.8	2	.01	1.0	1	0		
10	8.0	0	0	1.8	2	.01	1.0	1	0		
11	7.0	1	.02	1.6	2	.01	1.0	1	0		
12	6.6	1	.02	1.4	2	.01	1.0	1	0		
13	6.3	1	.02	1.4	2	.01	1.0	1	0		
14	6.3	1	.02	1.4	2	.01	1.0	1	0		
15	6.0	1	.02	1.2	1	0	1.0	1	0		
16	5.8	1	.02	1.2	1	0	1.0	1	0		
17	5.3	1	.01	1.2	1	0	1.0	1	0		
18	5.3	1	.01	1.2	1	0	1.0	1	0		
19	5.0	1	.01	1.0	1	0	1.0	1	0		
20	4.8	1	.01	1.0	1	0	3.0	3	.02		
21	4.6	2	.02	1.0	2	.01	2.8	3	.02		
22	4.4	2	.02	1.2	2	.01	2.2	3	.02		
23	4.2	2	.02	1.2	2	.01	2.2	3	.02		
24	4.0	2	.02	1.2	2	.01	2.4	3	.02		
25	3.6	3	.03	1.4	2	.01	2.4	3	.02		
26	3.4	3	.03	2.4	5	.03	2.2	2	.01		
27	3.2	4	.03	2.8	4	.03	1.9	1	.01		
28	3.0	4	.03	2.2	1	.01	1.8	1	0		
29	2.8	3	.02	2.0	1	.01	1.4	1	0		
30	2.6	3	.02	1.8	1	0	1.4	1	0		
31	2.6	2	.01	1.4	1	0	--	--	--		
TOTAL	200.8	--	.57	52.7	--	.27	43.3	--	.14		
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									9028.2		
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)									1007.12		

PYRAMID AND WINNEMUCCA LAKES BASIN

77

10336684 DOLLAR CREEK NEAR TAHOE CITY, CALIF.

LOCATION.--Lat 39°11'55", long 120°05'50", in SE1SW4 sec.28, T.16 N., R.17 E., Placer County, Tahoe National Forest, at gaging station on right bank 30 ft upstream from culvert on State Highway 28, 1,000 ft upstream from Lake Tahoe, and 2.8 miles northeast of Tahoe City.

DRAINAGE AREA.--1.07 sq mi.

PERIOD OF RECORD.--Water temperatures: June 1972 to September 1973.  
Sediment records: June 1972 to September 1973.

EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 17 mg/l Apr. 27; minimum daily, 0 mg/l on many days.  
Sediment discharge: Maximum daily, 0.86 ton Apr. 28; minimum daily, 0 tons on many days.

Period of record:

Sediment concentrations: Maximum daily, 17 mg/l Apr. 27, 1973; minimum daily, 0 mg/l on many days each year.  
Sediment discharge: Maximum daily, 0.86 ton Apr. 28, 1973; minimum daily, 0 tons on many days each year.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	0.0	0.0	---	---	3.0	10.0	---	13.5	---
2	9.0	---	---	---	---	2.0	1.5	3.0	---	10.5	---	---
3	9.5	5.5	---	---	---	---	---	---	---	---	---	---
4	---	4.5	---	0.0	---	---	---	---	8.5	---	---	---
5	---	4.0	0.5	---	1.0	1.5	---	---	---	---	---	---
6	9.5	4.0	---	---	---	---	---	---	---	11.5	12.5	---
7	---	---	---	---	---	---	---	4.0	---	---	---	11.0
8	---	---	0.5	0.0	1.0	2.0	---	---	11.0	---	---	---
9	9.0	---	---	---	---	---	2.0	5.0	---	12.0	---	---
10	8.5	3.0	---	---	---	---	---	---	---	---	---	---
11	---	---	0.0	0.0	---	---	---	5.0	11.5	---	---	10.0
12	---	---	---	0.0	0.0	---	2.0	---	---	---	---	---
13	---	2.5	---	2.0	---	2.0	1.5	---	12.5	12.0	---	---
14	---	---	---	---	---	---	---	9.0	8.5	---	12.5	9.5
15	---	---	0.0	1.0	1.0	---	---	---	---	---	---	---
16	6.0	---	---	0.0	---	---	2.0	9.0	---	---	---	---
17	---	3.0	---	1.0	---	---	---	---	---	---	---	---
18	6.0	---	2.0	---	---	---	2.0	---	9.5	13.0	---	---
19	---	---	2.0	1.0	---	1.5	---	---	---	---	---	---
20	6.0	1.5	2.5	---	1.0	---	4.5	---	---	---	---	---
21	---	---	2.5	---	---	---	---	7.0	10.0	---	---	---
22	---	---	---	0.0	---	1.5	---	---	---	---	12.0	---
23	5.0	---	---	---	1.0	1.5	3.0	9.0	---	10.0	---	---
24	---	1.5	---	---	---	---	---	---	---	---	---	9.0
25	---	---	---	0.0	---	---	2.5	---	11.0	---	---	---
26	---	---	1.5	---	0.5	2.0	---	---	---	---	---	---
27	6.0	1.5	---	---	2.0	---	4.0	---	---	13.5	---	9.5
28	---	2.5	---	---	---	---	---	6.5	12.5	---	11.5	---
29	---	---	0.0	0.0	---	---	---	---	---	---	---	---
30	---	1.5	---	---	---	1.0	4.0	10.0	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	11.5	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAY						
09...	1950	--	6.0	6	.10	54
23...	0935	9.0	1.6	2	.01	100
JULY						
09...	0850	12.0	.21	2	.00	49
AUG.						
14...	1050	12.5	.02	10	.00	67

PYRAMID AND WINNEMUCCA LAKES BASIN  
10336684 DOLLAR CREEK NEAR TAHOE CITY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.19	2	0	.17	0	0	.39	0	0
2	.30	3	0	.17	0	0	.39	0	0
3	.19	1	0	.21	0	0	.39	0	0
4	.17	0	0	.70	4	.01	.43	0	0
5	.17	0	0	.47	1	0	.26	0	0
6	.15	0	0	.39	1	0	.39	1	0
7	.17	0	0	.30	1	0	.43	1	0
8	.21	0	0	.30	1	0	.39	1	0
9	.21	0	0	.30	0	0	.39	1	0
10	.21	0	0	.33	0	0	.39	2	0
11	.21	0	0	.36	0	0	.39	2	0
12	.21	0	0	.33	1	0	.39	2	0
13	.19	0	0	.36	1	0	.39	1	0
14	.21	0	0	.43	1	0	.39	1	0
15	.24	0	0	.36	1	0	.39	1	0
16	.24	0	0	.36	1	0	.43	1	0
17	.24	1	0	.39	2	0	1.3	5	.02
18	.36	2	0	.36	1	0	1.2	4	.01
19	.33	1	0	.30	1	0	1.7	5	.02
20	.36	1	0	.27	0	0	1.2	4	.01
21	.27	1	0	.30	0	0	.99	2	.01
22	.24	1	0	.30	0	0	1.1	2	.01
23	.24	1	0	.30	0	0	.87	2	0
24	.21	1	0	.30	0	0	.75	2	0
25	.19	1	0	.36	0	0	.63	2	0
26	.17	1	0	.39	0	0	.59	2	0
27	.17	1	0	.43	1	0	.55	2	0
28	.21	1	0	.43	2	0	.55	1	0
29	.24	1	0	.39	1	0	.47	1	0
30	.21	0	0	.39	0	0	.43	1	0
31	.17	0	0	--	--	--	.39	1	0
TOTAL	6.88	--	0	10.45	--	.01	19.05	--	.08
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	.39	1	0	.55	1	0	.71	1	0
2	.39	1	0	.55	1	0	.67	1	0
3	.43	1	0	.55	1	0	.67	1	0
4	.43	1	0	.55	2	0	.67	1	0
5	.43	1	0	.55	2	0	.63	1	0
6	.43	1	0	.55	2	0	.63	1	0
7	.39	2	0	.55	2	0	.63	1	0
8	.39	2	0	.55	3	0	.63	1	0
9	.43	2	0	.55	3	0	.67	1	0
10	.43	2	0	.59	3	0	.71	1	0
11	.55	3	0	.55	3	0	.71	2	0
12	.87	3	.01	.51	3	0	.71	2	0
13	.87	1	0	.51	3	0	.71	2	0
14	.79	2	0	.51	4	.01	.67	2	0
15	.63	4	.01	.47	4	.01	.67	2	0
16	.75	2	0	.51	4	.01	.67	2	0
17	.69	2	0	.55	4	.01	.71	2	0
18	.64	1	0	.59	3	0	.71	1	0
19	.59	0	0	.59	3	0	.71	1	0
20	.59	0	0	.63	3	.01	.75	1	0
21	.55	0	0	.63	2	0	.71	2	0
22	.51	0	0	.63	1	0	.67	2	0
23	.51	0	0	.67	1	0	.67	1	0
24	.51	0	0	.67	1	0	.71	2	0
25	.51	0	0	.63	1	0	.83	3	.01
26	.51	0	0	.63	1	0	.99	3	.01
27	.51	0	0	.67	1	0	1.2	2	.01
28	.51	0	0	.71	1	0	1.1	2	.01
29	.51	0	0	--	--	--	1.0	1	0
30	.51	0	0	--	--	--	.95	1	0
31	.55	1	0	--	--	--	.95	1	0
TOTAL	16.80	--	.02	16.20	--	.05	23.42	--	.04



10336684 DOLLAR CREEK NEAR TAHOE CITY, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.91	1	0	7.8	6	.13	1.1	2	.01
2	.87	1	0	8.5	7	.16	1.0	2	.01
3	.95	2	.01	9.2	7	.17	.99	2	.01
4	1.2	3	.01	7.2	6	.12	.91	2	0
5	1.6	4	.02	4.6	4	.05	.91	2	0
6	2.4	6	.04	3.8	5	.05	.83	1	0
7	3.0	6	.05	4.4	6	.07	.75	1	0
8	2.8	5	.04	5.0	6	.08	.36	1	0
9	3.1	4	.03	5.2	4	.06	.19	1	0
10	3.8	5	.05	5.6	5	.08	.19	1	0
11	5.0	6	.08	6.0	5	.08	.21	1	0
12	6.4	6	.10	6.8	6	.11	.30	1	0
13	5.2	4	.06	7.8	6	.13	.43	2	0
14	3.4	3	.03	6.8	5	.09	.43	2	0
15	3.4	2	.02	5.2	5	.07	.39	2	0
16	3.3	2	.02	4.6	5	.06	.43	1	0
17	3.6	2	.02	3.8	4	.04	.43	1	0
18	3.4	2	.02	3.4	3	.03	.39	1	0
19	3.0	2	.02	2.8	3	.02	.36	1	0
20	3.0	2	.02	2.2	3	.02	.30	2	0
21	3.3	3	.03	1.9	3	.02	.27	2	0
22	4.4	4	.05	1.7	2	.01	.27	2	0
23	6.8	5	.09	1.4	2	.01	.30	1	0
24	9.2	6	.15	1.4	4	.02	.30	1	0
25	11	7	.21	1.2	3	.01	.27	1	0
26	14	11	.42	1.2	2	.01	.24	1	0
27	18	17	.83	1.1	2	.01	.27	1	0
28	20	16	.86	.99	1	0	.30	1	0
29	14	12	.45	.95	2	.01	.27	1	0
30	9.2	8	.20	.83	3	.01	.27	1	0
31	--	--	--	1.1	4	.01	--	--	--
TOTAL	170.23	--	3.93	124.47	--	1.74	13.66	--	.03

DAY	JULY			AUGUST			SEPTEMBER		
	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	.19	1	0	0	12	0	.02	1	0
2	.19	1	0	0	10	0	.02	1	0
3	.19	1	0	.01	9	0	.02	1	0
4	.19	1	0	.02	8	0	.02	1	0
5	.17	1	0	.02	7	0	.02	1	0
6	.13	1	0	.01	6	0	.02	1	0
7	.15	1	0	.01	6	0	.02	1	0
8	.17	2	0	.01	7	0	.03	1	0
9	.13	2	0	.02	7	0	.04	1	0
10	.15	2	0	.02	8	0	.04	1	0
11	.13	1	0	.01	8	0	.05	1	0
12	.11	1	0	.01	9	0	.05	1	0
13	.13	1	0	.01	9	0	.05	1	0
14	.13	1	0	.01	10	0	.04	1	0
15	.11	2	0	.01	9	0	.05	1	0
16	.11	2	0	.01	8	0	.05	1	0
17	.11	3	0	.02	6	0	.06	1	0
18	.09	4	0	.01	4	0	.05	1	0
19	.05	4	0	0	2	0	.03	1	0
20	.06	4	0	0	2	0	.04	1	0
21	.05	3	0	0	2	0	.05	1	0
22	.07	3	0	0	2	0	.09	1	0
23	.05	3	0	.01	2	0	.15	1	0
24	.03	3	0	.01	2	0	.17	1	0
25	.02	4	0	.02	1	0	.15	1	0
26	.02	4	0	.04	3	0	.11	1	0
27	.02	4	0	.04	1	0	.09	1	0
28	.01	5	0	.02	1	0	.09	1	0
29	.01	6	0	.02	1	0	.07	2	0
30	.01	8	0	.02	1	0	.09	2	0
31	.01	10	0	.02	1	0	--	--	--
TOTAL	2.99	--	0	.41	--	0	1.78	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)  
 TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

406.34  
 5.90



## 10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	15	17	.69	16	5	.22	15	26	1.1
2	24	24	1.6	17	4	.18	15	20	.81
3	20	19	1.0	17	4	.18	14	15	.57
4	15	5	.20	30	40	3.3	13	31	1.1
5	16	6	.26	20	10	.54	12	36	1.2
6	16	5	.22	18	10	.49	11	13	.39
7	16	5	.22	18	12	.58	11	7	.21
8	17	6	.28	18	12	.58	11	6	.18
9	16	6	.26	18	14	.68	11	6	.18
10	16	10	.43	18	15	.73	11	6	.18
11	16	10	.43	18	13	.63	12	5	.16
12	16	9	.39	18	14	.68	12	5	.16
13	16	9	.39	17	15	.69	12	6	.19
14	15	10	.41	18	13	.63	13	8	.28
15	15	8	.32	18	11	.53	15	8	.32
16	16	5	.22	18	10	.49	22	15	.89
17	17	7	.32	17	7	.32	48	58	8.5
18	21	13	.74	17	8	.37	64	36	6.3
19	20	13	.70	17	8	.37	73	48	9.5
20	22	16	.95	16	8	.35	41	41	4.3
21	20	12	.65	16	9	.39	29	35	2.8
22	17	8	.37	15	9	.36	27	54	3.9
23	20	5	.27	15	11	.45	26	35	2.5
24	17	6	.28	15	22	.89	25	31	2.1
25	17	6	.28	15	13	.53	24	35	2.3
26	17	6	.28	15	13	.53	23	39	2.4
27	17	6	.28	15	15	.61	22	34	2.0
28	17	5	.23	15	12	.49	21	33	1.9
29	16	5	.22	15	14	.57	20	34	1.8
30	15	5	.20	15	25	1.0	19	34	1.7
31	15	5	.20	--	--	--	19	35	1.8
TOTAL	533	--	13.29	515	--	18.36	691	--	61.72
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	19	30	1.5	21	36	2.0	21	22	1.2
2	19	26	1.3	21	32	1.8	21	14	.79
3	19	25	1.3	21	20	1.1	22	13	.77
4	19	18	.92	21	13	.74	22	14	.83
5	18	14	.68	21	10	.57	22	20	1.2
6	18	9	.44	20	12	.65	20	18	.97
7	17	8	.37	20	17	.92	20	12	.65
8	17	5	.23	20	27	1.5	20	10	.54
9	17	7	.32	20	26	1.4	20	12	.65
10	20	7	.38	20	20	1.1	20	12	.65
11	29	86	7.6	20	13	.70	21	14	.79
12	103	136	39	20	10	.54	20	14	.76
13	63	90	16	20	13	.70	20	14	.76
14	42	65	7.5	20	14	.76	22	14	.83
15	34	56	5.1	20	19	1.0	22	23	1.4
16	34	79	7.3	20	21	1.1	22	24	1.4
17	33	101	9.0	20	23	1.2	20	22	1.2
18	33	58	5.2	20	28	1.5	22	23	1.4
19	33	40	3.6	20	30	1.6	21	24	1.4
20	33	43	3.8	20	38	2.1	20	22	1.2
21	32	37	3.2	20	39	2.1	21	23	1.3
22	32	31	2.7	20	41	2.2	24	23	1.5
23	31	31	2.6	20	38	2.1	23	23	1.4
24	31	18	1.5	18	39	1.9	23	22	1.4
25	28	12	.91	18	40	1.9	23	21	1.3
26	23	13	.81	20	43	2.3	25	20	1.4
27	22	13	.77	22	38	2.3	26	18	1.3
28	22	11	.65	21	31	1.8	24	18	1.2
29	22	8	.48	--	--	--	24	19	1.2
30	22	10	.59	--	--	--	23	18	1.1
31	22	13	.77	--	--	--	23	19	1.2
TOTAL	907	--	126.52	564	--	39.58	677	--	33.69

10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

APRIL				MAY			JUNE		
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)
1	26	19	1.3	66	44	7.8	167	47	21
2	24	23	1.5	69	44	8.2	150	39	16
3	23	21	1.3	76	68	14	144	35	14
4	26	23	1.6	77	45	9.4	137	27	10
5	30	22	1.8	67	27	4.9	135	22	8.0
6	36	23	2.2	62	25	4.2	136	29	11
7	38	24	2.5	65	34	6.0	135	35	13
8	38	26	2.7	71	41	7.9	132	50	18
9	41	31	3.4	76	35	7.2	135	56	20
10	43	36	4.2	85	38	8.7	136	55	20
11	47	40	5.1	96	74	19	135	52	19
12	49	43	5.7	101	79	22	125	46	16
13	47	38	4.8	108	83	24	115	38	12
14	42	35	4.0	116	81	25	109	34	10
15	41	30	3.3	122	87	29	101	30	8.2
16	41	20	2.2	129	86	30	96	25	6.5
17	43	23	2.7	139	103	39	92	23	5.7
18	42	26	2.9	143	95	37	86	24	5.6
19	41	19	2.1	142	87	33	81	21	4.6
20	39	12	1.3	142	79	30	76	21	4.3
21	39	13	1.4	137	68	25	74	23	4.6
22	44	19	2.3	132	55	20	71	21	4.0
23	51	30	4.1	130	54	19	72	18	3.5
24	57	44	6.8	133	41	15	70	18	3.4
25	62	60	10	128	43	15	66	17	3.0
26	68	67	12	118	40	13	64	19	3.3
27	74	58	12	119	41	13	64	21	3.6
28	80	57	12	125	42	14	62	19	3.2
29	76	55	11	134	47	17	58	17	2.7
30	70	45	8.5	145	54	21	55	16	2.4
31	--	--	--	160	56	24	--	--	--
TOTAL	1378	--	136.7	3413	--	562.3	3079	--	276.6
JULY				AUGUST			SEPTEMBER		
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)
1	54	16	2.3	27	16	1.2	16	7	.30
2	52	15	2.1	26	15	1.1	16	7	.30
3	51	15	2.1	23	15	.93	16	9	.39
4	49	16	2.1	29	28	2.4	16	10	.43
5	48	14	1.8	26	20	1.5	16	12	.52
6	45	16	1.9	23	12	.75	15	10	.41
7	44	20	2.4	22	12	.71	14	9	.34
8	42	21	2.4	21	13	.74	14	6	.23
9	40	20	2.2	20	14	.76	14	6	.23
10	38	20	2.1	20	14	.76	15	8	.32
11	37	16	1.6	20	16	.86	14	4	.15
12	36	14	1.4	20	16	.86	15	4	.16
13	36	13	1.3	19	17	.87	15	5	.20
14	36	12	1.2	18	16	.78	15	4	.16
15	36	10	.97	18	13	.63	15	4	.16
16	35	10	.95	17	14	.64	15	4	.16
17	38	10	1.0	16	14	.60	15	3	.12
18	34	6	.55	16	14	.60	15	4	.16
19	33	7	.62	16	13	.56	15	4	.16
20	32	8	.69	17	13	.60	16	4	.17
21	31	8	.67	16	15	.65	16	4	.17
22	32	10	.86	18	19	.92	15	5	.20
23	30	10	.81	19	19	.97	16	6	.26
24	29	11	.86	20	20	1.1	16	8	.35
25	29	14	1.1	18	20	.97	16	8	.35
26	28	17	1.3	19	22	1.1	16	8	.35
27	29	18	1.4	25	28	1.9	16	8	.35
28	28	18	1.4	19	14	.72	16	8	.35
29	28	19	1.4	17	8	.37	16	8	.35
30	26	19	1.3	16	8	.35	15	9	.36
31	26	20	1.4	16	7	.30	--	--	--
TOTAL	1132	--	44.18	617	--	27.20	460	--	8.16
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									13966
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)									1348.30

## PYRAMID AND WINNEMUCCA LAKES BASIN

83

10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
NOV.									
04...	0940	2.5	--	36	66	6.4	41	--	--
05...	1335	7.0	--	19	7	.36	22	--	--
20...	1440	2.0	16	17	6	.26	42	46	100
DEC.									
20...	1520	.0	41	36	60	6.6	83	83	100
JAN.									
13...	1315	.0	63	60	91	15	51	--	--
APR.									
25...	1120	6.5	--	57	51	7.8	35	--	--
MAY									
01...	0955	3.0	--	64	46	7.9	28	--	--
09...	2345	8.5	--	91	32	7.9	43	--	--
14...	1400	10.5	--	106	65	19	20	--	--
17...	0020	--	--	147	122	48	30	--	--
24...	0250	7.0	--	140	40	15	31	--	--
30...	2400	8.0	--	153	57	24	35	--	--
JUNE									
11...	1345	12.5	--	136	50	18	13	--	--
JULY									
03...	1300	14.0	--	54	16	2.3	74	--	--
AUG.									
07...	1325	17.0	--	23	13	.81	49	--	--
29...	1215	13.0	--	18	9	.44	55	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (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.								
21...	0950	.0	5	16	--	1	4	15
DEC.								
26...	1205	.0	6	23	--	--	2	12
JULY								
03...	1030	14.0	3	--	54	--	--	3
03...	1300	14.0	5	--	54	--	--	3
AUG.								
29...	1220	13.0	4	--	18	--	1	5

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
NOV.							
21...	32	49	62	82	100	--	--
DEC.							
26...	31	47	64	87	100	--	--
JULY							
03...	31	69	89	97	100	--	--
03...	21	42	60	75	83	89	100
AUG.							
29...	18	40	62	78	88	92	100

## PYRAMID AND WINNEMUCCA LAKES BASIN

10343500 SAGEHEN CREEK NEAR TRUCKEE, CALIF.

LOCATION.--Lat 39°25'54", long 120°14'07", in NE¼NE¼ sec.7, T.18 N., R.16 E., Nevada County, at gaging station on left bank, 2.2 miles upstream from bridge on State Highway 89 and 7.5 miles north of Truckee.

DRAINAGE AREA.--10.8 sq mi.

PERIOD OF RECORD.--Chemical analyses: May 1968 to September 1972.

Water temperatures: October 1969 to September 1973.

Sediment records: Water years 1968-73 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 20.5°C June 28, 30; minimum, freezing point on many days during November to January.

Period of record:

Water temperatures: Maximum, 20.5°C June 28, 30, 1973; minimum, freezing point on many days during winter period each year.

REMARKS.--Temperature records for 1951-69 are in files at University of California, Berkeley, Calif. Water temperature recorder at site 1,000 ft upstream. Temperature graph furnished by University of California.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	7.0	5.0	3.5	2.0	0.5	1.0	0.5	1.5	0.5	3.5	2.0
2	11.0	7.0	5.5	3.0	3.0	0.5	1.0	0.0	3.0	1.0	3.5	1.0
3	11.0	6.0	5.5	3.0	2.0	0.5	1.0	0.5	3.0	1.5	3.0	1.0
4	11.0	6.5	5.0	2.0	1.0	0.0	0.5	0.0	3.0	1.5	3.5	1.0
5	10.5	6.0	4.5	2.0	0.5	0.0	0.5	0.0	3.0	1.5	3.5	0.5
6	9.5	5.0	4.0	1.0	0.0	0.0	0.5	0.0	3.0	2.0	3.0	1.0
7	8.5	5.0	3.5	2.0	0.0	0.0	0.5	0.0	3.5	1.5	4.0	1.0
8	9.0	5.0	3.5	1.0	0.0	0.0	1.0	0.0	3.5	2.0	3.5	1.5
9	9.5	6.0	3.5	0.5	0.0	0.0	1.0	0.5	3.5	1.5	4.5	0.5
10	8.0	6.0	4.0	2.0	0.0	0.0	2.0	1.0	2.0	0.5	4.5	1.5
11	8.0	6.0	3.0	1.0	0.0	0.0	2.0	0.5	2.0	0.5	3.5	0.5
12	8.0	4.0	3.0	0.5	0.5	0.0	1.0	0.5	3.0	1.5	3.5	1.5
13	8.5	4.5	3.0	1.5	0.5	0.0	2.0	1.0	3.0	1.5	3.0	1.5
14	8.0	4.0	3.0	1.5	0.5	0.0	2.0	0.5	3.5	2.0	3.5	0.5
15	7.0	5.0	3.5	1.0	2.0	0.5	3.0	1.0	3.5	2.0	5.5	0.5
16	7.0	4.5	3.5	1.5	2.0	1.0	1.5	0.5	3.5	1.0	6.5	4.0
17	7.0	4.5	4.0	1.5	2.0	0.5	1.0	0.5	3.0	0.5	5.0	4.0
18	6.5	4.0	3.5	0.5	2.0	1.0	0.5	0.0	3.0	0.5	5.5	3.0
19	6.0	3.5	3.5	1.5	2.0	0.5	0.5	0.0	2.0	0.5	5.5	4.0
20	8.0	5.0	2.0	0.5	3.0	1.5	0.5	0.0	3.0	0.5	5.5	4.0
21	7.0	3.5	3.0	0.5	3.5	1.5	1.5	0.0	3.0	0.5	5.0	3.5
22	7.0	3.5	3.0	1.0	2.0	1.0	0.5	0.0	4.0	1.0	6.0	3.0
23	7.0	3.5	1.0	0.5	3.0	0.5	0.5	0.0	3.5	1.0	6.5	3.0
24	5.5	3.5	2.0	0.5	2.0	1.0	1.0	0.5	3.0	1.5	7.0	3.0
25	6.0	3.0	3.0	0.5	1.5	0.5	2.0	1.0	4.0	1.5	7.0	4.0
26	6.0	3.5	3.0	0.5	2.0	0.5	2.0	0.5	3.0	1.0	7.0	4.0
27	6.0	3.0	3.0	0.5	2.0	0.5	1.5	0.0	3.5	1.5	6.5	4.0
28	5.5	3.0	3.0	1.0	1.0	0.5	2.0	0.0	4.0	1.5	5.5	3.5
29	3.5	1.0	2.0	0.5	0.5	0.0	1.5	1.0	---	---	5.5	3.0
30	3.5	1.0	1.5	0.0	1.0	0.5	1.5	0.5	---	---	7.0	4.0
31	4.5	1.0	---	---	1.0	0.0	2.0	1.0	---	---	7.0	3.5
MONTH	11.0	1.0	5.5	0.0	3.5	0.0	3.0	0.0	4.0	0.5	7.0	0.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	3.0	10.5	3.0	14.0	8.0	18.0	7.0	18.5	11.0	14.0	7.0
2	6.5	3.0	11.0	3.5	14.5	7.0	18.5	8.5	18.5	11.0	14.0	5.5
3	7.0	3.5	11.0	4.0	15.0	7.0	19.0	8.5	16.0	10.5	15.0	6.5
4	8.0	4.0	6.0	4.0	16.5	7.0	19.5	8.5	16.0	10.0	15.0	7.0
5	8.0	3.5	6.5	4.0	18.0	8.5	19.5	9.0	16.5	10.0	15.0	7.0
6	8.0	4.0	11.5	3.5	18.5	8.5	19.0	9.5	18.0	10.0	15.0	7.0
7	7.0	4.0	12.0	3.5	18.5	8.5	19.0	8.5	17.0	9.5	14.0	7.0
8	7.0	3.5	13.0	4.5	19.5	10.0	19.0	8.5	18.0	9.5	13.0	6.0
9	7.0	4.0	13.0	4.0	19.0	9.5	20.0	10.0	17.0	10.0	14.0	7.0
10	7.0	4.0	14.0	4.5	18.0	10.0	19.5	10.5	17.0	8.5	14.5	7.0
11	7.0	3.5	14.5	5.0	17.0	11.0	20.0	10.5	18.0	9.5	14.5	8.0
12	6.5	4.0	14.5	5.5	18.0	9.5	19.0	9.0	17.0	9.5	14.0	8.0
13	6.0	4.0	14.0	5.5	14.5	10.5	17.0	11.5	18.5	9.0	14.5	8.0
14	6.5	4.0	14.5	6.0	15.0	7.0	18.0	10.0	18.5	9.5	14.0	8.5
15	6.5	4.0	13.5	6.0	15.5	7.0	18.0	10.0	18.5	9.5	13.0	6.0
16	6.5	4.0	14.0	5.5	14.5	8.0	16.5	10.5	17.0	9.0	13.0	5.5
17	6.5	4.0	13.0	6.0	15.5	7.0	18.0	10.0	17.0	9.5	12.0	6.0
18	6.5	3.0	14.5	6.5	16.5	6.5	19.0	10.0	17.0	10.0	12.0	6.5
19	6.5	3.5	13.5	6.0	18.5	8.0	18.5	9.5	16.5	10.0	12.0	8.0
20	7.0	4.0	14.0	6.0	19.0	9.0	18.5	9.0	16.5	8.5	11.5	8.5
21	8.0	3.5	14.5	5.5	19.5	10.0	16.5	9.0	16.0	9.0	11.5	5.5
22	8.5	3.5	15.0	6.0	16.0	11.0	17.0	8.5	15.5	8.5	10.5	6.5
23	8.5	3.5	15.0	6.0	14.0	10.5	17.0	8.0	14.5	8.0	10.5	6.5
24	8.5	3.5	11.0	7.0	18.5	9.5	18.0	8.0	14.0	9.0	10.5	7.0
25	10.0	4.0	12.0	6.5	15.5	10.0	18.5	9.5	14.5	9.0	10.5	5.5
26	9.5	3.5	14.5	5.0	19.0	10.5	18.0	10.5	13.0	8.0	11.0	5.0
27	9.5	3.5	16.0	6.0	19.5	10.5	16.5	10.0	14.5	7.0	11.5	5.0
28	9.0	3.5	17.0	7.0	20.5	11.0	16.0	10.0	15.5	7.0	12.0	6.0
29	8.5	3.5	18.0	5.0	19.5	12.0	18.0	10.5	16.0	8.0	11.5	6.0
30	9.5	3.5	14.0	9.0	20.5	8.5	18.0	10.5	15.5	8.0	11.5	6.0
31	---	---	10.5	9.0	---	---	18.0	10.5	15.5	9.5	---	---
MONTH	10.0	3.0	18.0	3.0	20.5	6.5	20.0	7.0	18.5	7.0	15.0	5.0

## PYRAMID AND WINNEMUCCA LAKES BASIN

85

10343500 SAGEHEN CREEK NEAR TRUCKEE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDFD SEDI- MENT (MG/L)	SUS- PENDFD SEDI- MENT DIS- CHARGE (T/DAY)
OCT.					
02...	1314	11.0	2.1	2	.01
04...	1300	10.5	3.1	3	.03
09...	1025	8.0	4.0	2	.02
16...	1230	7.0	4.3	2	.02
23...	1520	7.0	4.8	2	.03
30...	1110	2.0	3.5	1	.01
NOV.					
06...	0940	2.0	6.1	5	.08
06...	1200	3.5	6.1	2	.03
13...	0930	2.0	4.1	2	.02
27...	1030	2.0	3.7	2	.02
DEC.					
12...	1030	1.0	2.8	0	.00
19...	1030	2.0	5.9	4	.64
27...	1030	.5	7.5	1	.02
JAN.					
02...	0830	1.0	5.4	7	.10
FEB.					
06...	1045	2.0	5.7	3	.05
20...	1345	2.0	5.5	3	.04
26...	1125	2.5	5.5	5	.07
27...	1320	4.0	5.5	3	.04
MAR.					
05...	0810	1.0	5.5	2	.03
13...	0820	2.0	5.7	2	.03
26...	0915	4.0	6.3	1	.02
29...	0825	3.0	5.5	3	.04
APR.					
02...	0945	3.0	6.5	2	.04
09...	0925	4.0	12	3	.10
16...	0835	4.0	25	4	.27
23...	1035	4.0	29	4	.31
24...	1005	3.5	34	4	.37
25...	1650	6.5	68	41	7.5
27...	1625	5.0	99	43	11
MAY					
01...	1335	8.0	69	7	1.3
02...	0700	4.0	52	3	.42
02...	1205	10.0	56	6	.91
02...	1545	10.0	82	17	3.8
07...	0805	5.5	46	2	.25
08...	1620	11.5	70	8	1.5
09...	1540	13.0	71	10	1.9
10...	1615	13.0	82	9	2.0
13...	1515	13.0	91	11	2.7
14...	1615	13.0	89	23	5.5
15...	1635	10.0	89	8	1.9
17...	1615	12.0	86	12	2.8
19...	1525	13.0	75	6	1.2
20...	0840	9.0	39	4	.42
JUNE					
04...	1515	17.0	28	3	.23
17...	1330	13.0	13	2	.07
20...	0905	9.0	13	3	.11
25...	1500	15.5	8.7	2	.05
JULY					
09...	1230	17.0	5.2	4	.06
21...	1530	17.0	3.8	2	.02
AUG.					
06...	1535	--	2.8	2	.02
22...	1545	15.0	2.7	1	.01
27...	1545	13.0	3.8	2	.02
SEP.					
13...	0740	8.0	3.1	1	.01
17...	0950	7.0	3.1	1	.01
24...	1230	10.0	3.3	1	.01

## PYRAMID AND WINNEMUCCA LAKES BASIN

10346000 TRUCKEE RIVER AT FARAD, CALIF.  
(Irrigation network station)

LOCATION.--Lat 39°25'41", long 120°01'59", in NE¼ sec.12, T.18 N., R.17 E., Nevada County, at gaging station 0.7 mile downstream from Farad hydroelectric powerplant, 2.5 miles north of Floriston, and 3.5 miles upstream from California-Nevada State line.

DRAINAGE AREA.--932 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1964 to September 1973.

Water temperatures: January 1964 to September 1973.

Published as sta 10345900 Truckee River at Floriston, Calif. for period January 1964 to September 1971.

EXTREMES.--1972-73:

Specific conductance: Maximum daily, 130 micromhos Mar. 1; minimum daily, 58 micromhos May 30.

Water temperatures: Maximum, 20.0°C Aug. 5, 8; minimum recorded, 0.5°C Dec. 12.

Period of record:

Specific conductance (1964-66, 1967-73): Maximum daily, 141 micromhos Feb. 3, 1964; minimum daily, 39 micromhos Dec. 23, 1964.

Water temperatures: Maximum, 21.0°C Aug. 2, 6, 1971; minimum, freezing point on several days during winter period of most years.

REMARKS.--Water-quality at this site is considered comparable with that of sta 10345900 Truckee River at Floriston, which was operated 2.5 miles upstream. Daily specific conductance and temperature data are collected at Farad powerplant, 0.7 mile upstream from gage.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	RICAR- PONATE (HCO3) (MG/L)
OCT.								
18...	1325	442	14	9.0	2.8	5.9	1.6	46
NOV.								
21...	1500	387	16	11	3.1	7.4	2.0	56
DEC.								
18...	1210	817	14	8.0	2.5	4.9	1.6	44
JAN.								
26...	1400	500	18	11	3.2	6.1	1.4	52
FEB.								
21...	1330	426	17	10	3.3	6.4	1.4	57
MAR.								
22...	1040	520	17	12	3.5	10	2.3	59
APR.								
20...	1115	693	19	9.6	3.0	6.4	1.5	50
MAY								
22...	1115	1220	17	6.8	1.7	6.0	1.4	34
JUNE								
25...	1140	695	18	8.3	2.4	6.9	2.0	46
JULY								
23...	1130	782	16	8.9	2.9	6.3	1.7	51
AUG.								
23...	1200	791	15	9.1	2.8	5.0	1.7	48
SEP.								
24...	1400	745	14	8.9	2.4	5.6	1.6	49

DATE	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)
OCT.									
18...	0	5.2	6.0	--	--	--	.05	--	--
NOV.									
21...	0	5.5	4.2	.0	.03	.00	.03	.03	.04
DEC.									
18...	0	2.7	4.0	--	--	--	.13	--	--
JAN.									
26...	0	4.1	6.2	--	--	--	.13	--	--
FEB.									
21...	0	5.0	6.3	.0	.05	.00	.05	.03	.13
MAR.									
22...	0	6.2	10	--	--	--	.03	--	--
APR.									
20...	0	5.5	7.6	--	--	--	.10	--	--
MAY									
22...	0	2.7	2.8	.1	.03	.01	.04	.03	.30
JUNE									
25...	0	2.4	2.7	--	--	--	.01	--	--
JULY									
23...	0	4.9	--	--	--	--	.03	--	--
AUG.									
23...	0	3.3	2.2	.1	.03	.00	.03	.01	.20
SEP.									
24...	0	3.4	2.7	--	--	--	.02	--	--



PYRAMID AND WINNEMUCCA LAKES BASIN

87

10346000 TRUCKEE RIVER AT FARAD, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT. 18...	--	.01	67	80.0	34	.4	105	11.0
NOV. 21...	.03	.00	77	80.5	40	.5	107	4.0
DEC. 18...	--	.01	60	132	30	.4	87	4.0
JAN. 26...	--	.00	76	103	41	.4	107	3.0
FEB. 21...	.05	.01	78	89.7	39	.4	112	4.0
MAR. 22...	--	.01	90	126	44	.7	137	2.5
APR. 20...	--	.01	78	146	36	.5	118	5.5
MAY 22...	.06	.01	55	181	24	.5	67	8.0
JUNE 25...	--	.00	65	122	31	.6	84	--
JULY 23...	--	.00	E70	E150	34	.5	93	16.0
AUG. 23...	.31	.00	63	135	34	.4	92	14.0
SEP. 24...	--	.03	63	127	32	.4	94	14.0

E ESTIMATED.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	102	103	---	105	130	110	---	60	81	92	90
2	105	102	102	99	100	120	112	---	61	---	92	89
3	92	102	101	97	100	119	107	76	63	85	92	86
4	98	95	101	---	103	121	---	75	63	86	94	87
5	91	102	99	98	106	123	109	80	63	88	92	86
6	89	103	98	96	---	115	---	83	61	87	92	84
7	91	100	---	---	---	121	---	81	61	---	93	84
8	90	102	---	---	115	108	---	75	63	88	93	86
9	91	101	---	95	106	107	---	73	71	88	93	88
10	90	102	---	97	107	110	---	74	72	87	94	---
11	91	102	---	101	102	114	---	69	71	87	93	84
12	90	101	98	---	104	113	---	66	69	86	94	85
13	---	102	---	91	112	113	92	62	70	89	94	85
14	96	104	---	---	112	113	94	61	72	87	96	84
15	96	104	---	---	108	110	92	62	74	86	95	84
16	97	103	91	106	107	111	---	60	75	86	94	85
17	98	105	97	100	110	112	95	60	77	86	94	85
18	98	106	83	100	111	109	95	---	79	88	92	85
19	98	106	80	97	110	109	---	---	78	88	92	86
20	98	111	85	---	110	113	97	62	78	89	---	86
21	96	104	---	97	---	110	92	---	80	89	---	86
22	95	104	92	105	---	110	91	67	77	90	91	---
23	96	106	---	101	114	110	91	63	77	---	---	---
24	96	105	93	---	---	112	85	62	77	90	91	85
25	97	102	94	---	123	110	85	60	78	90	90	85
26	99	104	93	104	116	110	84	64	78	90	90	87
27	97	102	98	107	122	111	---	66	81	92	91	88
28	102	101	97	100	---	113	---	65	77	91	93	90
29	102	100	---	103	---	117	78	62	77	91	96	90
30	100	101	---	98	---	114	---	58	77	91	93	91
31	100	---	---	100	---	111	---	59	---	91	94	---
MONTH	96	103	---	---	109	114	---	67	72	88	93	86
YEAR	MAX	130	MIN	58	MEAN	93						

## PYRAMID AND WINNEMUCCA LAKES BASIN

10346000 TRUCKEE RIVER AT FARAD, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.5	7.0	3.0	---	1.5	4.0	4.5	---	10.0	14.5	18.0	14.5
2	12.5	7.5	3.5	2.0	4.0	3.5	3.5	---	9.5	---	17.5	10.5
3	10.5	8.0	4.5	2.0	3.5	3.0	4.5	---	10.0	15.0	17.0	14.5
4	13.0	8.0	4.5	---	3.5	2.5	---	6.0	11.0	17.0	17.5	14.5
5	12.0	7.0	1.0	1.0	3.5	2.5	8.0	5.0	12.0	15.0	20.0	12.0
6	13.0	6.0	1.0	2.0	---	4.0	---	8.0	12.0	14.0	16.5	12.0
7	11.0	7.5	---	---	---	4.0	---	9.0	11.5	---	19.5	11.0
8	11.0	7.0	---	---	3.5	4.0	---	7.0	15.0	17.0	20.0	11.0
9	12.0	6.0	---	1.5	5.0	4.0	---	8.0	12.0	15.5	17.5	11.0
10	11.0	6.0	---	3.0	4.0	4.5	---	9.0	12.0	15.5	15.0	---
11	11.0	6.0	---	3.5	2.5	4.0	---	10.0	12.5	15.5	17.0	14.0
12	11.5	5.5	0.5	---	3.0	5.0	---	9.0	12.0	15.0	18.0	14.0
13	---	5.5	---	4.0	3.0	4.0	5.0	7.0	12.0	16.0	17.0	11.5
14	9.0	4.5	---	---	3.0	3.0	5.0	7.0	11.0	15.0	19.5	12.5
15	9.0	5.5	---	---	3.5	2.5	5.0	9.5	10.5	15.5	18.0	11.0
16	9.5	7.0	3.0	4.0	3.0	5.0	---	8.0	9.0	17.5	18.0	11.0
17	9.5	7.0	5.0	2.5	2.5	3.0	7.0	7.5	11.0	17.0	18.0	14.5
18	9.0	5.5	4.5	2.0	2.0	5.5	5.0	---	8.5	17.0	18.0	12.0
19	9.0	5.5	4.5	2.0	2.0	5.5	---	---	12.0	17.0	15.0	13.0
20	9.0	4.0	4.0	---	2.5	5.5	5.0	8.0	15.0	18.0	---	14.0
21	8.5	3.5	---	2.0	---	4.0	8.0	---	11.5	15.5	---	12.0
22	9.5	5.0	3.0	1.5	---	3.0	6.0	11.0	12.0	15.5	15.0	13.0
23	8.5	2.0	---	2.0	4.5	5.0	10.0	9.5	10.5	---	---	---
24	8.0	3.0	4.0	---	---	4.0	7.5	9.0	10.5	18.0	13.0	---
25	7.0	5.0	2.0	---	3.5	5.0	9.0	8.0	11.0	16.0	14.0	13.0
26	7.5	5.5	3.0	3.0	4.0	6.0	7.5	8.0	14.0	16.5	13.5	13.0
27	8.0	6.0	2.5	1.0	3.0	6.5	---	9.5	13.5	18.5	13.0	14.5
28	7.5	4.5	2.0	2.0	---	3.5	---	11.5	14.0	19.0	13.5	12.0
29	6.0	5.0	---	2.0	---	4.0	5.5	13.0	14.0	18.5	13.0	15.0
30	4.0	5.0	---	3.5	---	5.5	---	11.0	13.5	17.5	15.0	11.5
31	5.0	---	---	3.5	---	6.5	---	11.0	---	17.0	14.0	---
MONTH	9.5	5.5	---	---	3.0	4.5	---	8.5	12.0	16.5	16.5	12.5

## HONEY LAKE BASIN

89

10356500 SUSAN RIVER AT SUSANVILLE, CALIF.

LOCATION.--Lat 40°25'03", long 120°40'15", in SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.31, T.30 N., R.12 E., Lassen County, at gaging station 0.5 mile west of Susanville, and 1.1 miles upstream from Piute Creek.

DRAINAGE AREA.--184 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-58 (partial-record station), October 1958 to September 1973.

REMARKS.--Records furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANECUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCC3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
DEC. 07...	1030	20	--	--	5.5	95	0	78	.0
MAR. 15...	0805	82	680	20	4.8	69	0	57	1.6

DATE	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOC. PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PORON (B) (UG/L)
DEC. 07...	--	--	--	--	68	0	.3	0
MAR. 15...	.03	.10	.03	.02	48	0	.3	0

DATE	TIME	INSTAN- TANECUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT. 11...	1215	21	159	7.9	9.5	3	9.8
NOV. 01...	1345	17	169	7.6	6.0	1	11.0
DEC. 07...	1030	20	149	7.4	.5	--	12.4
JAN. 14...	1245	14	167	7.4	.0	1	--
FEB. 22...	1530	54	123	7.3	.0	5	12.3
MAR. 21	1130	47	133	7.6	1.5	5	12.4
APR. 15...	0805	82	117	7.4	.0	5	11.6
MAY 12...	1245	215	85	7.6	6.0	10	10.1
JUNE 14...	1340	147	89	8.0	13.5	5	8.8
JULY 13...	0905	112	68	7.5	15.5	10	8.3
AUG. 18...	1505	112	69	8.4	23.5	4	7.7
SEP. 09...	1115	4.4	179	8.1	23.0	1	9.6
SEP. 06...	0700	6.5	180	8.0	12.5	1	10.2

## TIJUANA RIVER BASIN

11013500 TIJUANA RIVER NEAR NESTOR, CALIF.

LOCATION.--Lat 32°33'06", long 117°05'00", on line between secs.3 and 4, T.19 S., R.2 W., San Diego County, at gaging station at county highway bridge, 1.7 miles south of Nestor, and 2.9 miles upstream from mouth.

DRAINAGE AREA.--1,695 sq mi, of which 1,236 sq mi are in Mexico.

PERIOD OF RECORD.--Water temperatures: October 1969 to September 1972.  
Sediment records: October 1969 to September 1973.

## EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 3,800 mg/l Feb. 13; minimum daily, no flow for many days.

Sediment discharge: Maximum daily, 191 tons Feb. 13; minimum daily, 0 tons on many days.

## Period of record:

Sediment concentrations: Maximum daily, 4,190 mg/l Dec. 21, 1970; minimum daily, no flow for many days each year.

Sediment discharge: Maximum daily, 202 tons Feb. 13, 1973; minimum daily, 0 tons on many days each year.

REMARKS.--No flow Oct. 1 to Dec. 3, 6, 7, Dec. 10 to Jan. 18, Jan. 21 to Feb. 10, 15-23, Feb. 25 to Mar. 7, 10, 14-19, Mar. 22 to Sept. 30. Sediment table omitted for no flow period April to September.

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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							0	0	0
2							0	0	0
3							0	0	0
4							.43	180	3.4
5							2.2	1020	16
6							0	0	0
7							0	0	0
8							1.2	510	19
9							3.4	1590	26
10							0	0	0
11							0	0	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16									
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							0	0	0
22							0	0	0
23							0	0	0
24							0	0	0
25							0	0	0
26									
27							0	0	0
28							0	0	0
29							0	0	0
30							0	0	0
31							0	0	0
TOTAL	0	--	0	0	--	0	7.23	--	55.4

## TIJUANA RIVER BASIN

91

11013500 TIJUANA RIVER NEAR NESTOR, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	.05	35	.21
9	0	0	0	0	0	0	1.0	750	4.1
10	0	0	0	0	0	0	0	0	0
11	0	0	0	4.4	1910	55	1.2	430	12
12	0	0	0	1.5	840	5.6	6.4	1520	43
13	0	0	0	11	3800	191	.11	80	.05
14	0	0	0	.59	1850	4.6	0	0	0
15	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0
19	4.0	1750	32	0	0	0	0	0	0
20	.01	20	0	0	0	0	1.8	740	16
21	0	0	0	0	0	0	1.4	800	8.7
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	.01	35	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0
29	0	0	0	--	--	--	0	0	0
30	0	0	0	--	--	--	0	0	0
31	0	0	0	--	--	--	0	0	0
TOTAL	4.01	--	32	17.50	--	256.2	11.96	--	84.06

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

40.70

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

427.66

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
FEB.								
12...	0900	12.0	1.6	938	4.1	85	86	87
13...	0945	12.0	34	7120	654	87	97	99
13...	1415	18.0	15	5590	226	82	97	98
						SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
						SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
						SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
FEB.								
12...		88	93	93	--	95	99	100
13...		99	100	--	--	--	--	--
13...		98	99	--	100	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
NOV.										
02...	1400	3	.00	3	10	35	74	95	99	100
AUG.										
16...	0900	3	.00	2	5	22	65	88	97	100

LOCATION.--Lat 32°49'29", long 117°03'17", in Ex Mission San Diego Grant, San Diego County, at gaging station in Mission Gorge, 0.2 mile upstream from left tributary, and 6 miles west of Santee.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1973.  
Sediment records: October 1969 to September 1973.

Sediment concentrations: Maximum daily, 430 mg/l Feb. 13; minimum daily, 10 mg/l on many days.  
Sediment discharge: Maximum daily, 350 tons Feb. 13; minimum daily, 0.10 ton June 13, 14, Sept. 7.

Sediment concentrations: Maximum daily, 512 mg/l Mar. 1, 1970; minimum daily, 10 mg/l on many days in 1971-73.  
Sediment discharge: Maximum daily, 350 tons Feb. 13, 1973; minimum daily, 0 tons on many days in 1969 and 1970.

[illegible]

11022500 SAN DIEGO RIVER NEAR SANTEE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	3.1	35	.29	5.2	10	.14	8.1	10	.22
2	3.3	30	.27	5.2	10	.14	8.0	10	.22
3	3.1	25	.21	5.2	10	.14	8.2	10	.22
4	3.1	20	.17	5.2	10	.14	39	75	48
5	2.8	15	.11	6.2	15	.25	108	215	119
6	2.7	15	.11	7.4	15	.30	17	40	1.8
7	2.9	20	.16	7.6	15	.31	35	50	8.1
8	3.7	25	.25	8.2	15	.33	48	75	15
9	4.1	35	.39	7.9	15	.32	52	85	16
10	4.1	35	.39	7.1	10	.19	19	40	2.1
11	4.2	35	.40	46	80	18	16	35	1.5
12	4.4	35	.42	29	40	4.3	13	30	1.1
13	5.2	40	.56	12	25	.81	12	25	.81
14	5.0	35	.47	13	20	1.0	11	20	.59
15	4.8	35	.45	29	55	5.0	11	15	.45
16	4.6	35	.43	55	100	52	10	15	.41
17	4.4	40	.48	110	205	68	9.5	15	.38
18	12	25	.81	26	40	3.4	9.3	15	.38
19	14	30	1.1	13	20	.70	9.1	15	.37
20	30	60	5.6	11	15	.45	9.0	10	.24
21	16	30	1.3	10	10	.27	8.8	10	.24
22	8.0	15	.32	9.5	10	.26	8.7	10	.23
23	7.0	10	.19	9.1	10	.25	8.7	10	.23
24	6.4	15	.26	9.0	10	.24	8.9	10	.24
25	5.7	20	.31	9.2	10	.25	9.1	15	.37
26	5.2	30	.42	9.1	10	.25	9.0	15	.36
27	5.6	35	.53	9.0	10	.24	8.9	10	.24
28	5.4	30	.44	8.8	10	.24	9.0	10	.24
29	5.2	25	.35	8.3	10	.22	9.1	15	.37
30	5.2	20	.28	8.2	10	.22	9.1	15	.37
31	5.2	15	.21	--	--	--	9.3	15	.38
TOTAL	196.4	--	17.68	499.4	--	158.36	550.8	--	220.16

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	9.3	15	.38	10	135	3.6	19	150	7.7
2	9.2	15	.37	9.9	100	2.7	16	110	4.8
3	9.3	15	.38	9.7	70	1.8	15	70	2.8
4	20	30	3.3	14	50	1.9	16	40	1.7
5	34	55	6.8	11	30	.89	19	50	2.6
6	11	25	.74	26	45	4.0	21	60	3.4
7	9.7	20	.52	16	30	1.4	60	210	37
8	9.1	15	.37	12	25	.81	57	190	43
9	9.1	15	.37	11	20	.59	56	185	32
10	26	45	4.3	11	15	.45	30	95	7.7
11	12	25	.81	157	345	291	96	255	124
12	9.4	20	.51	74	135	30	133	340	129
13	8.8	15	.36	187	430	350	65	200	35
14	8.6	15	.35	64	200	35	56	160	24
15	8.4	10	.23	92	260	83	33	150	13
16	8.7	10	.23	55	150	22	26	120	8.4
17	74	160	59	30	90	7.3	22	90	5.3
18	14	35	1.3	24	40	2.6	20	60	3.2
19	52	90	18	24	30	1.9	21	50	2.8
20	16	40	1.7	20	25	1.4	101	280	125
21	12	30	.97	17	25	1.1	57	200	34
22	11	25	.74	16	20	.86	59	205	36
23	10	20	.54	17	20	.92	30	100	8.1
24	9.8	15	.40	16	20	.86	21	70	4.0
25	9.6	15	.39	15	15	.61	19	50	2.6
26	9.7	15	.39	14	15	.57	24	70	4.5
27	8.9	10	.24	15	15	.61	42	190	22
28	8.7	10	.23	36	140	16	29	180	14
29	8.7	10	.23	--	--	--	30	170	14
30	9.5	15	.38	--	--	--	18	160	7.8
31	14	150	5.7	--	--	--	16	150	6.5
TOTAL	470.5	--	110.23	1003.6	--	863.87	1227	--	765.9

## SAN DIEGO RIVER BASIN

11022500 SAN DIEGO RIVER NEAR SANTEE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	15	160	6.5	10	65	1.8	5.3	45	.64
2	16	160	6.9	9.6	60	1.6	5.5	45	.67
3	15	155	6.3	9.1	60	1.5	5.6	50	.76
4	14	155	5.9	8.2	55	1.2	5.4	45	.66
5	14	150	5.7	8.2	55	1.2	4.9	45	.60
6	14	150	5.7	8.1	55	1.2	4.3	40	.46
7	14	145	5.5	7.8	55	1.2	3.6	40	.39
8	15	145	5.9	7.3	55	1.1	3.1	35	.29
9	14	145	5.5	7.0	55	1.0	2.5	35	.24
10	14	140	5.3	6.6	50	.89	2.1	30	.17
11	13	140	4.9	6.3	50	.85	2.0	30	.16
12	13	140	4.9	6.4	55	.95	1.7	25	.11
13	11	140	4.2	6.2	50	.84	1.5	25	.10
14	12	155	5.0	6.4	55	.95	1.5	25	.10
15	12	150	4.9	6.4	55	.95	2.1	30	.17
16	12	90	2.9	6.2	55	.92	2.9	35	.27
17	10	40	1.1	6.0	50	.81	3.8	40	.41
18	10	40	1.1	5.8	50	.78	4.5	45	.55
19	10	35	.95	5.6	45	.68	4.2	40	.45
20	10	35	.95	5.9	45	.72	4.0	35	.38
21	12	45	1.5	6.1	50	.82	3.8	30	.31
22	9.2	40	.99	5.8	50	.78	4.0	35	.38
23	8.3	40	.90	5.5	45	.67	4.2	35	.40
24	7.6	35	.72	5.4	45	.66	4.7	40	.51
25	7.0	35	.66	5.4	40	.58	4.6	40	.50
26	6.8	35	.64	5.4	40	.58	3.9	35	.37
27	7.0	35	.66	5.5	40	.59	3.4	30	.28
28	7.1	40	.77	5.7	45	.69	3.0	30	.24
29	7.4	45	.90	5.5	45	.67	2.6	25	.18
30	8.9	55	1.3	5.0	40	.54	2.8	30	.23
31	--	--	--	5.1	40	.55	--	--	--
TOTAL	339.3	--	99.14	203.5	--	28.27	107.5	--	10.98

DAY	JULY			AUGUST			SEPTEMBER		
	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	3.8	35	.36	4.4	30	.36	3.3	25	.22
2	3.5	30	.28	4.1	30	.33	3.6	30	.29
3	3.2	30	.26	4.0	30	.32	3.4	25	.23
4	2.9	25	.20	4.0	30	.32	3.4	25	.23
5	3.1	25	.21	5.2	40	.56	2.8	20	.15
6	2.9	25	.20	5.2	40	.56	2.3	20	.12
7	3.2	30	.26	4.5	35	.43	1.9	20	.10
8	4.1	40	.44	4.2	35	.40	2.1	25	.14
9	3.6	40	.39	4.1	35	.39	2.4	30	.19
10	4.0	45	.49	4.3	40	.46	3.3	35	.31
11	4.5	40	.49	4.2	40	.45	3.8	40	.41
12	4.2	35	.40	5.1	45	.62	3.7	35	.35
13	4.0	30	.32	4.9	45	.60	3.4	35	.32
14	3.9	30	.32	4.2	40	.45	3.5	30	.28
15	4.5	35	.43	4.5	40	.49	3.5	25	.24
16	4.3	35	.41	4.4	40	.48	3.9	25	.26
17	4.1	30	.33	4.0	35	.38	4.0	30	.32
18	3.6	30	.29	4.0	35	.38	3.4	25	.23
19	3.5	25	.24	4.7	40	.51	3.3	20	.18
20	3.5	25	.24	5.0	40	.54	4.2	15	.17
21	3.7	25	.25	5.3	40	.57	4.5	15	.18
22	4.2	30	.34	4.7	40	.52	5.2	20	.28
23	3.8	30	.31	4.2	35	.40	5.7	20	.31
24	3.2	25	.22	3.5	35	.33	5.8	25	.39
25	3.2	20	.17	3.0	30	.24	5.6	20	.30
26	3.5	25	.24	3.3	30	.27	5.8	25	.39
27	3.8	25	.26	3.2	30	.26	5.5	20	.30
28	4.3	30	.35	2.5	25	.17	5.0	15	.20
29	5.4	40	.58	2.1	25	.14	5.2	15	.21
30	5.2	35	.49	2.8	30	.23	5.2	15	.21
31	4.7	35	.44	3.3	30	.27	--	--	--
TOTAL	119.4	--	10.21	126.9	--	12.42	118.7	--	7.51

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

4963.0

2304.73



11022500 SAN DIEGO RIVER NEAR SANTEE, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDEO SEDIM- ENT CHARGE (MG/L)	SUS- PENDEO SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM
FEB. 06...	1110	14.0	48	75	9.7	--	--	--	--	--	98	100
12...	1130	14.0	62	98	16	--	--	--	--	--	100	--
13...	1200	13.0	287	601	466	80	91	96	99	100	--	--
MAR. 07...	1350	15.0	77	257	53	--	84	96	98	100	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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. 02...	1330	14.0	3	5.0	1	2	7	19
AUG. 21...	1130	19.5	3	5.3	--	--	3	10

DATE	RED 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. 02...	37	54	61	69	92	100	--
AUG. 21...	16	22	24	29	60	79	100

## SAN LUIS REY RIVER BASIN

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CALIF.

LOCATION.--Lat 33°12'48", long 117°22'33", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec.14, T.11 S., R.5 W., San Diego County, at gaging station 0.7 mile upstream from bridge on Interstate Highway 5, 1.1 miles upstream from mouth, and 1.2 miles north of Oceanside.

DRAINAGE AREA.--558 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1973.  
Sediment records: October 1968 to September 1973.

## EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 260 mg/l June 13; minimum daily, 6 mg/l Mar. 3-6.

Sediment discharge: Maximum daily, 8.9 tons Mar. 13; minimum daily, 0.12 ton Oct. 8, 9.

## Period of record:

Sediment concentrations (1969-73): Maximum daily, 1,220 mg/l Mar. 2, 1970; minimum daily, 2 mg/l on several days in 1972.

Sediment discharge (1969-73): Maximum daily, 943 tons Mar. 2, 1970; minimum daily, 0.01 ton Nov. 4, 1969.

REMARKS.--High sediment concentrations after June 11, due to channel work.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	19.5	12.5	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	19.5	---	---	---	---
5	18.0	---	---	8.0	12.5	14.0	---	---	---	20.0	---	---
6	---	14.5	---	---	---	---	15.5	---	---	---	20.5	---
7	---	---	11.0	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	14.0	13.0	---	---	18.5	---	---	---
14	---	11.0	---	---	13.5	---	---	---	---	---	---	18.5
15	15.0	---	---	---	---	---	---	---	---	---	---	---
16	---	13.0	---	---	13.5	---	---	---	---	---	21.0	---
17	---	---	---	14.0	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	14.0	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	14.5	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	9.0	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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. 02...	1300	12.5	3	5.9	3	26	75	95
AUG. 16...	1200	21.0	3	5.3	2	6	13	27
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
NOV. 02...		98	98	99	99	100	--	--
AUG. 16...		35	39	43	49	69	89	100

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	4.6	30	.37	5.7	15	.23	7.1	10	.19
2	4.6	30	.37	5.9	15	.24	7.2	15	.29
3	4.7	25	.32	6.1	10	.16	7.1	15	.29
4	4.9	20	.26	6.1	10	.16	7.4	15	.30
5	4.6	15	.19	5.9	10	.16	8.7	20	.47
6	4.6	15	.19	5.7	10	.15	9.0	20	.49
7	4.6	15	.19	5.5	10	.15	8.8	15	.36
8	4.4	10	.12	5.8	10	.16	8.7	15	.35
9	4.5	10	.12	6.1	10	.16	8.7	15	.35
10	4.6	15	.19	6.1	10	.16	8.4	15	.34
11	4.6	15	.19	6.6	15	.27	8.0	15	.32
12	4.8	20	.26	6.7	15	.27	7.4	15	.30
13	4.9	25	.33	6.5	15	.26	7.4	10	.20
14	4.9	30	.40	7.1	15	.29	7.5	10	.20
15	4.9	30	.40	8.8	20	.48	7.5	10	.20
16	4.7	25	.32	9.5	25	.64	7.5	10	.20
17	4.9	25	.33	11	30	.89	7.5	10	.20
18	5.5	30	.45	11	30	.89	7.2	10	.19
19	6.0	30	.49	10	25	.68	7.0	10	.19
20	6.1	30	.49	9.0	25	.61	7.1	10	.19
21	6.0	25	.41	8.4	25	.57	7.1	10	.19
22	5.7	25	.38	8.1	20	.44	7.1	10	.19
23	5.4	25	.36	8.1	20	.44	7.1	10	.19
24	5.4	20	.29	8.1	20	.44	7.0	10	.19
25	5.5	20	.30	7.8	20	.42	6.7	10	.18
26	5.5	20	.30	7.4	15	.30	6.6	10	.18
27	5.1	15	.21	6.8	15	.28	6.6	10	.18
28	5.8	20	.31	6.6	15	.27	7.0	10	.19
29	5.8	20	.31	6.6	10	.18	7.1	10	.19
30	5.7	15	.23	7.0	10	.19	7.0	10	.19
31	5.5	15	.22	--	--	--	6.8	10	.18
TOTAL	158.8	--	9.30	220.0	--	10.54	231.3	--	7.67

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	6.6	10	.18	8.2	15	.33	22	7	.42
2	6.6	10	.18	8.1	15	.33	24	7	.45
3	6.7	15	.27	7.8	15	.32	22	6	.36
4	7.1	15	.29	7.8	15	.32	21	6	.34
5	7.4	15	.30	7.6	15	.31	22	6	.36
6	7.4	15	.30	8.0	15	.32	24	6	.39
7	7.2	15	.29	8.2	15	.33	27	8	.58
8	7.2	10	.19	8.6	15	.35	30	10	.81
9	7.2	10	.19	8.7	15	.35	44	15	1.8
10	7.6	10	.21	8.7	15	.35	96	20	5.2
11	7.8	15	.32	9.7	15	.39	62	15	2.5
12	7.8	15	.32	41	20	2.7	100	20	5.4
13	7.8	15	.32	113	10	3.1	132	25	8.9
14	7.6	10	.21	126	10	3.4	93	20	5.0
15	7.6	10	.21	91	10	2.5	64	20	3.5
16	8.2	15	.33	62	10	1.7	42	15	1.7
17	9.3	20	.50	39	10	1.1	35	15	1.4
18	11	25	.74	44	15	1.8	32	15	1.3
19	21	30	1.7	30	13	1.1	31	15	1.3
20	23	30	1.9	29	12	.94	37	15	1.5
21	27	25	1.8	25	10	.68	59	20	3.2
22	19	20	1.0	22	9	.53	88	25	5.9
23	15	15	.61	22	9	.53	79	20	4.3
24	13	10	.35	21	9	.51	67	15	2.7
25	12	10	.32	19	8	.41	42	15	1.7
26	11	10	.30	21	8	.45	38	15	1.5
27	10	15	.41	22	8	.48	35	15	1.4
28	9.5	15	.38	24	7	.45	34	15	1.4
29	8.8	15	.36	--	--	--	32	15	1.3
30	8.7	15	.35	--	--	--	31	15	1.3
31	8.2	15	.33	--	--	--	31	14	1.2
TOTAL	324.3	--	15.16	842.4	--	26.08	1496	--	69.11

## SAN LUIS REY RIVER BASIN

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	28	14	1.1	9.3	15	.38	6.6	10	.18
2	27	13	.95	9.0	15	.36	6.5	10	.18
3	26	13	.91	9.0	15	.36	6.0	10	.16
4	24	12	.78	8.6	50	1.2	5.9	10	.16
5	22	12	.71	7.8	45	.95	6.0	10	.16
6	21	11	.62	7.2	45	.87	6.1	10	.16
7	19	10	.51	7.0	45	.85	6.1	10	.16
8	19	10	.51	7.2	40	.78	6.1	10	.16
9	18	10	.49	7.4	40	.80	5.9	10	.16
10	18	10	.49	7.4	40	.80	5.8	10	.16
11	18	10	.49	7.4	35	.70	5.6	10	.15
12	17	10	.46	7.1	35	.67	5.8	140	2.2
13	16	10	.43	7.0	35	.66	5.9	260	4.1
14	15	10	.41	6.8	30	.55	6.0	250	4.1
15	16	10	.43	7.0	30	.57	5.8	240	3.8
16	16	15	.65	7.1	30	.58	5.5	230	3.4
17	15	15	.61	7.2	25	.49	5.5	225	3.3
18	16	15	.65	7.2	25	.49	5.4	220	3.2
19	15	15	.61	7.1	25	.48	5.5	215	3.2
20	14	15	.57	7.6	20	.41	5.6	210	3.2
21	13	15	.53	6.7	20	.36	5.5	205	3.0
22	12	15	.49	6.8	20	.37	5.3	200	2.9
23	12	15	.49	6.8	20	.37	5.2	195	2.7
24	12	15	.49	6.8	15	.28	5.0	190	2.6
25	12	15	.49	6.8	15	.28	5.1	185	2.5
26	11	15	.45	6.8	15	.28	5.3	180	2.6
27	10	15	.41	6.8	15	.28	5.5	175	2.6
28	9.7	15	.39	6.8	15	.28	5.6	170	2.6
29	9.5	15	.38	6.8	15	.28	5.5	165	2.5
30	9.5	15	.38	6.6	10	.18	5.6	160	2.4
31	--	--	--	6.5	10	.18	--	--	--
TOTAL	490.7	--	16.88	225.6	--	16.09	171.2	--	58.69

DAY	JULY			AUGUST			SEPTEMBER		
	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	5.4	155	2.3	5.1	70	.96	5.8	50	.78
2	5.3	150	2.1	5.2	70	.98	5.9	45	.72
3	5.3	145	2.1	5.2	70	.98	5.9	45	.72
4	5.2	140	2.0	5.2	65	.91	5.8	45	.70
5	5.2	140	2.0	5.0	65	.88	5.8	45	.70
6	5.2	135	1.9	5.1	65	.90	5.8	40	.63
7	5.2	135	1.9	5.1	65	.90	5.9	40	.64
8	5.1	130	1.8	5.2	65	.91	5.9	40	.64
9	5.4	130	1.9	5.3	65	.93	5.5	35	.52
10	5.5	125	1.9	5.4	65	.95	5.4	35	.51
11	5.4	125	1.8	5.3	65	.93	6.1	40	.66
12	5.4	120	1.7	5.3	65	.93	8.1	45	.98
13	5.6	120	1.8	5.3	60	.86	7.4	40	.80
14	6.2	115	1.9	5.3	60	.86	6.7	35	.63
15	5.4	115	1.7	5.4	60	.87	6.2	35	.59
16	5.3	110	1.6	5.5	60	.89	6.0	35	.57
17	5.4	110	1.6	5.5	60	.89	6.0	35	.57
18	5.3	105	1.5	6.5	65	1.1	6.0	35	.57
19	5.3	105	1.5	7.0	65	1.2	5.9	35	.56
20	5.3	100	1.4	6.3	65	1.1	5.9	35	.56
21	5.3	100	1.4	6.6	60	1.1	5.9	35	.56
22	5.2	95	1.3	6.2	60	1.0	6.0	30	.49
23	5.1	95	1.3	6.1	60	.99	5.9	30	.48
24	5.1	90	1.2	5.8	55	.86	5.9	30	.48
25	5.3	90	1.3	5.6	55	.83	6.0	30	.49
26	5.3	85	1.2	5.6	55	.83	5.9	30	.48
27	5.3	85	1.2	5.6	55	.83	5.8	30	.47
28	5.0	80	1.1	5.6	50	.76	5.8	30	.47
29	5.0	80	1.1	5.6	50	.76	5.6	30	.45
30	5.0	75	1.0	5.8	50	.78	5.6	30	.45
31	5.0	75	1.0	5.6	50	.76	--	--	--
TOTAL	164.0	--	49.5	173.3	--	28.43	180.4	--	17.87

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

4678.0

325.32

## SANTA MARGARITA RIVER BASIN

99

11046000 SANTA MARGARITA RIVER AT YSIDORA, CALIF.

LOCATION.--Lat 33°14'13", long 117°23'14", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.10, T.11 S., R.5 W., San Diego County, on Camp Joseph H. Pendleton Naval Reservation, at gaging station 1.7 miles upstream from mouth, and 2.0 miles southwest of Ysidora.

DRAINAGE AREA.--740 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1968 to September 1972.

Sediment records: October 1967 to September 1973.

## EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 7,350 mg/l Feb. 12; minimum daily, no flow for many days.

Sediment discharge: Maximum daily, 17,600 tons Feb. 12; minimum daily, 0 tons on many days.

## Period of record:

Sediment concentrations: Maximum daily, 13,000 mg/l Feb. 24, 1969; minimum daily, no flow for many days each year.

Sediment discharge: Maximum daily, 534,000 tons Feb. 24, 1969; minimum daily, 0 tons on many days each year.

REMARKS.--No flow Oct. 1 to Feb. 11, July 6 to Sept. 30. Sediment table omitted for period of no flow October to December.

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JANUARY			FEBRUARY			MARCH		
	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				0	0	0	3.0	30	.24
2				0	0	0	2.3	30	.19
3				0	0	0	1.9	25	.13
4				0	0	0	1.8	25	.12
5				0	0	0	1.9	25	.13
6				0	0	0	1.8	25	.12
7				0	0	0	1.8	25	.12
8				0	0	0	15	75	3.0
9				0	0	0	145	730	286
10				0	0	0	100	350	94
11				0	0	0	60	165	27
12				494	7350	17600	228	890	548
13				315	5320	5570	144	340	132
14				437	5850	12500	88	200	48
15				113	670	215	59	140	22
16				56	265	40	44	110	13
17				34	165	15	36	80	7.8
18				23	110	6.8	30	60	4.9
19				18	60	2.9	24	40	2.6
20				13	45	1.6	46	80	9.9
21				8.0	40	.86	151	360	145
22				5.2	30	.42	110	230	67
23				4.0	30	.32	122	260	84
24				3.5	30	.28	67	140	25
25				3.0	25	.20	50	100	14
26				2.5	25	.17	40	70	7.6
27				2.0	25	.14	34	55	5.0
28				2.0	25	.14	30	50	4.1
29				--	--	--	25	40	2.7
30				--	--	--	22	30	1.8
31				--	--	--	19	25	1.3
TOTAL	0	--	0	1533.2	--	35953.83	1703.5	--	1556.75

## SANTA MARGARITA RIVER BASIN

11046000 SANTA MARGARITA RIVER AT YSIDORA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	18	20	.97	1.4	35	.13	.60	70	.11
2	17	20	.92	1.4	35	.13	.60	70	.11
3	16	20	.86	1.3	40	.14	.60	70	.11
4	15	15	.61	1.3	40	.14	.53	70	.10
5	14	15	.57	1.2	40	.13	.53	75	.11
6	13	15	.53	1.2	40	.13	.53	75	.11
7	12	10	.32	1.1	40	.12	.53	75	.11
8	11	10	.30	1.1	40	.12	.53	75	.11
9	9.8	10	.26	1.0	45	.12	.53	75	.11
10	9.0	10	.24	1.0	45	.12	.53	80	.11
11	8.3	10	.22	1.0	45	.12	.53	80	.11
12	7.6	15	.31	1.0	45	.12	.53	80	.11
13	7.0	15	.28	1.0	50	.14	.53	80	.11
14	6.4	15	.26	1.0	50	.14	.46	75	.09
15	5.8	15	.23	1.0	50	.14	.46	70	.09
16	5.5	15	.22	.94	50	.13	.46	65	.08
17	5.0	15	.20	.94	50	.13	.40	65	.07
18	4.4	20	.24	.84	55	.12	.40	65	.07
19	4.0	20	.22	.75	55	.11	.40	60	.06
20	3.5	20	.19	.84	55	.12	.34	60	.06
21	3.1	20	.17	.75	55	.11	.34	60	.06
22	2.7	25	.18	.67	55	.10	.34	55	.05
23	2.4	25	.16	.67	60	.11	.29	55	.04
24	2.2	30	.18	.67	60	.11	.29	50	.04
25	2.0	30	.16	.67	60	.11	.29	50	.04
26	1.9	30	.15	.67	60	.11	.24	50	.03
27	1.8	30	.15	.67	60	.11	.24	45	.03
28	1.6	35	.15	.60	65	.11	.24	45	.03
29	1.6	35	.15	.60	65	.11	.20	40	.02
30	1.5	35	.14	.60	65	.11	.20	40	.02
31	--	--	--	.60	70	.11	--	--	--
TOTAL	213.1	--	9.54	28.48	--	3.75	12.69	--	2.30

DAY	JULY			AUGUST			SEPTEMBER		
	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	.20	35	.02						
2	.17	30	.01						
3	.17	25	.01						
4	.17	20	.01						
5	.14	15	.01						
6	.14	15	.01						
7	.11	15	0						
8	.11	15	0						
9	.11	15	0						
10	.08	20	0						
11	.08	20	0						
12	.06	20	0						
13	.06	20	0						
14	.06	20	0						
15	.04	20	0						
16	.04	20	0						
17	.03	20	0						
18	.03	20	0						
19	.03	25	0						
20	.02	25	0						
21	.02	25	0						
22	.01	25	0						
23	.01	25	0						
24	.01	25	0						
25	0	0	0						
26	0	0	0						
27	0	0	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	0	0	0						
TOTAL	1.90	--	.07	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

3492.87  
37526.24

## SANTA MARGARITA RIVER BASIN

101

11046000 SANTA MARGARITA RIVER AT YSIDORA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT CHARGE (MG/L)	SUS- PEN- DED SED- IMENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
FEB. 15...	1245	11.0	107	535	155	64	79
MAR. 13...	1200	13.0	138	281	105	73	84

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
FEB. 15...	86	89	89	100	--	--	--
MAR. 13...	86	86	87	87	89	97	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
NOV. 02...	1130	3	.00	1	5	30	93	98	99	100	--
AUG. 16...	1030	3	.00	--	--	4	38	81	96	99	100





## SAN JUAN CREEK BASIN

103

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.17	10	0	.21	10	.01	.75	40	.08
2	.23	15	.01	.23	10	.01	1.1	65	.19
3	.10	10	0	.23	10	.01	.98	50	.13
4	.14	15	.01	.31	10	.01	4.1	130	3.9
5	.23	20	.01	.35	10	.01	.82	15	.03
6	.35	25	.02	.39	10	.01	.49	10	.01
7	.27	20	.01	.39	10	.01	1.8	88	.86
8	.04	10	0	.44	10	.01	1.9	143	1.2
9	.07	10	0	.31	5	0	.49	10	.01
10	.05	10	0	.35	5	0	.36	5	0
11	.27	15	.01	3.1	180	1.5	.27	5	0
12	.49	40	.05	.54	25	.04	.25	10	.01
13	1.1	65	.19	.45	20	.02	.21	10	.01
14	1.2	80	.26	8.7	670	.46	.23	10	.01
15	.20	30	.02	1.5	40	.16	.20	10	.01
16	.20	20	.01	28	1830	.481	.20	10	.01
17	.07	15	0	1.5	50	.20	.17	10	0
18	.31	20	.02	.80	55	.12	.17	10	0
19	10	230	88	.70	50	.09	.16	10	0
20	11	390	12	.66	45	.08	.16	10	0
21	.10	30	.01	.62	40	.07	.15	10	0
22	.07	25	0	.56	35	.05	.15	10	0
23	.07	20	0	.61	35	.06	.15	10	0
24	.06	15	0	.68	40	.07	.14	10	0
25	.06	10	0	.68	40	.07	.14	10	0
26	.12	15	0	.68	35	.06	.14	10	0
27	.28	20	.02	.68	35	.06	.13	10	0
28	.22	20	.01	.68	30	.06	.13	10	0
29	.21	15	.01	.68	30	.06	.12	10	0
30	.19	15	.01	.68	30	.06	.12	10	0
31	.19	10	.01	--	--	--	.12	10	0
TOTAL	28.06	--	100.69	55.71	--	529.91	16.30	--	6.46
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	.12	10	0	.50	15	.02	10	1250	34
2	.12	10	0	.50	15	.02	7.0	1000	19
3	.12	10	0	.49	25	.03	5.0	1100	15
4	.20	15	.01	.49	15	.02	8.0	1200	26
5	.61	25	.04	.49	15	.02	6.0	620	10
6	.44	20	.02	3.7	25	.25	7.0	210	4.0
7	.39	20	.02	2.6	40	.28	77	1730	360
8	.44	25	.03	1.0	15	.04	80	1320	285
9	.90	40	.10	.80	15	.03	88	900	214
10	.44	10	.01	1.5	30	.12	59	120	19
11	.61	20	.03	146	3420	1990	61	1020	204
12	1.4	30	.11	160	1360	657	90	530	137
13	1.2	25	.08	205	1220	793	75	220	45
14	1.2	20	.06	67	110	20	65	200	35
15	1.2	20	.06	23	55	3.4	54	220	32
16	26	3230	1040	8.0	810	17	48	150	19
17	16	4020	342	6.0	100	1.6	44	100	12
18	20	2360	617	5.2	80	1.1	42	50	5.7
19	26	4580	522	4.8	65	.84	39	25	2.6
20	2.6	140	.98	4.5	50	.61	101	2020	672
21	1.0	15	.04	4.1	50	.55	88	280	67
22	.76	15	.03	3.9	45	.47	118	545	182
23	.66	15	.03	3.8	40	.41	86	100	23
24	.61	15	.02	3.7	40	.40	67	50	9.0
25	.58	15	.02	3.6	35	.34	58	30	4.7
26	.56	15	.02	3.6	320	3.1	52	25	3.5
27	.54	15	.02	3.6	250	2.4	46	20	2.5
28	.54	15	.02	35	4600	435	42	20	2.3
29	.52	15	.02	--	--	--	40	15	1.6
30	.52	15	.02	--	--	--	34	15	1.4
31	.51	15	.02	--	--	--	30	15	1.2
TOTAL	106.79	--	2522.81	702.87	--	3928.05	1627.0	--	2448.5

## SAN JUAN CREEK BASIN

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	29	15	1.2	8.5	15	.34	9.3	5	.13
2	26	15	1.1	7.7	10	.21	9.5	5	.13
3	24	20	1.3	7.0	10	.19	8.9	5	.12
4	21	20	1.1	7.1	10	.19	8.4	5	.11
5	21	20	1.1	7.4	10	.20	7.4	5	.10
6	19	25	1.3	7.2	10	.19	6.9	5	.09
7	19	25	1.3	6.4	10	.17	5.8	5	.08
8	18	25	1.2	6.3	10	.17	5.9	5	.08
9	16	30	1.3	6.2	10	.17	4.9	10	.13
10	16	30	1.3	5.9	5	.08	4.3	10	.12
11	16	30	1.3	6.2	5	.08	4.2	15	.17
12	15	30	1.2	7.4	10	.20	4.0	15	.16
13	14	30	1.1	8.0	10	.22	3.8	20	.21
14	14	30	1.1	7.1	10	.19	3.6	20	.19
15	14	25	.95	5.9	5	.08	3.5	25	.24
16	14	25	.95	5.9	5	.08	3.4	20	.18
17	14	25	.95	6.2	5	.08	3.3	20	.18
18	13	20	.70	6.2	5	.08	3.2	20	.17
19	13	20	.70	6.5	5	.09	3.1	20	.17
20	13	20	.70	8.2	5	.11	3.0	15	.12
21	12	20	.65	8.6	5	.12	2.9	15	.12
22	11	20	.59	8.0	5	.11	2.8	15	.11
23	9.7	15	.39	5.8	5	.08	2.7	15	.11
24	8.5	15	.34	6.2	5	.08	2.6	20	.14
25	8.7	15	.35	6.8	5	.09	2.5	20	.14
26	7.8	15	.32	7.8	5	.11	2.4	25	.16
27	7.5	15	.30	7.9	5	.11	2.4	25	.16
28	8.1	20	.44	8.0	5	.11	2.3	30	.19
29	9.1	25	.61	8.8	5	.12	2.3	35	.22
30	9.1	20	.49	7.2	5	.10	2.3	30	.19
31	--	--	--	8.9	5	.12	--	--	--
TOTAL	440.5	--	26.33	221.3	--	4.27	131.6	--	4.42

DAY	JULY			AUGUST			SEPTEMBER		
	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	2.2	25	.15	1.9	55	.28	1.3	80	.28
2	2.2	25	.15	1.9	55	.28	1.1	70	.21
3	2.1	20	.11	1.9	55	.28	.71	65	.12
4	2.1	20	.11	1.9	55	.28	.69	60	.11
5	2.1	20	.11	1.7	55	.25	.59	50	.08
6	2.1	20	.11	1.8	55	.27	.61	45	.07
7	2.0	20	.11	1.8	50	.24	.59	40	.06
8	2.0	20	.11	1.6	50	.22	.87	50	.12
9	2.0	25	.14	1.6	50	.22	.64	50	.09
10	2.0	25	.14	1.6	50	.22	.51	45	.06
11	2.0	30	.16	1.6	50	.22	.51	45	.06
12	2.0	35	.19	1.4	55	.21	.42	40	.05
13	2.0	35	.19	1.4	60	.23	.44	40	.05
14	2.0	40	.22	1.4	65	.25	.37	40	.04
15	2.0	45	.24	1.3	70	.25	.37	40	.04
16	2.0	50	.27	1.3	75	.26	.30	35	.03
17	2.0	55	.30	1.3	75	.26	.30	35	.03
18	2.0	60	.32	1.3	75	.26	.30	35	.03
19	2.0	65	.35	1.2	70	.23	.24	30	.02
20	2.0	65	.35	1.2	65	.21	.24	30	.02
21	1.9	65	.33	1.2	65	.21	.62	90	.15
22	1.9	60	.31	1.0	60	.16	.52	60	.08
23	1.9	60	.31	1.0	60	.16	.19	40	.02
24	1.9	60	.31	1.0	60	.16	.19	35	.02
25	1.9	55	.28	.89	60	.14	.14	30	.01
26	1.9	55	.28	.93	65	.16	.24	35	.02
27	1.9	55	.28	.90	70	.17	.37	45	.04
28	1.9	55	.28	.93	75	.19	.30	40	.03
29	1.9	55	.28	.80	80	.17	.72	80	.16
30	1.9	55	.28	.81	85	.19	.93	90	.23
31	1.9	55	.28	.86	90	.21	--	--	--
TOTAL	61.7	--	7.05	41.42	--	6.84	15.32	--	2.33

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

3448.57

9587.66

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	SUS. SED. FALL DIAM. % FINER THAN	SUS. SED. SIEVE DIAM. % FINER THAN	SUS. SED. FALL DIAM. % FINER THAN	SUS. SED. SIEVE DIAM. % FINER THAN	SUS. SED. FALL DIAM. % FINER THAN	SUS. SED. SIEVE DIAM. % FINER THAN	SUS. SED. FALL DIAM. % FINER THAN	SUS. SED. SIEVE DIAM. % FINER THAN	SUS. SED. FALL DIAM. % FINER THAN
DATE	.062 MM	.062 MM	.125 MM	.125 MM	.250 MM	.250 MM	.500 MM	.500 MM	1.00 MM
NOV.									
16...	80	--	88	--	96	--	100	--	--
16...	94	--	95	--	96	--	100	--	--
DEC.									
04...	--	98	--	99	--	100	--	--	--
JAN.									
18...	--	100	--	--	--	--	--	--	--
FEB.									
11...	94	--	94	--	96	--	99	--	100
11...	93	--	94	--	97	--	99	--	100
13...	74	--	76	--	82	--	98	--	100
MAR.									
08...	--	100	--	--	--	--	--	--	--
09...	--	99	--	99	--	100	--	--	--
20...	--	100	--	--	--	--	--	--	--
22...	--	95	--	96	--	98	--	100	--

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS OIS- CHARGE (CFS)	BED MAT.	BED MAT.	BED MAT.
					SIEVE DIAM. % FINER THAN .125 MM	SIEVE DIAM. % FINER THAN .250 MM	SIEVE DIAM. % FINER THAN .500 MM
NOV. 08...	1200	19.0	3	.20	1	5	22
		BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN
DATE	1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM	
NOV. 08...	49	65	73	78	84	100	



11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	25	1580	400
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	13	785	66
8	0	0	0	0	0	0	12	800	26
9	0	0	0	0	0	0	1.0	70	.19
10	0	0	0	0	0	0	.50	20	.03
11	0	0	0	.50	200	.27	.20	15	.01
12	0	0	0	0	0	0	.10	10	0
13	0	0	0	0	0	0	.10	8	0
14	0	0	0	118	2840	2290	.10	5	0
15	0	0	0	20	720	39	.10	4	0
16	0	0	0	161	3880	3420	.10	4	0
17	0	0	0	9.0	700	17	.10	5	0
18	0	0	0	0	0	0	.10	6	0
19	12	240	238	0	0	0	.10	7	0
20	23	1340	480	0	0	0	.10	8	0
21	0	0	0	0	0	0	.10	9	0
22	0	0	0	0	0	0	.10	10	0
23	0	0	0	0	0	0	.10	10	0
24	0	0	0	0	0	0	.10	10	0
25	0	0	0	0	0	0	.10	10	0
26	0	0	0	0	0	0	.10	10	0
27	0	0	0	0	0	0	.10	10	0
28	0	0	0	0	0	0	.10	10	0
29	0	0	0	0	0	0	.10	10	0
30	0	0	0	0	0	0	.10	10	0
31	0	0	0	--	--	--	.10	10	0
TOTAL	35	--	718	308.50	--	5766.27	53.70	--	492.23

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	.10	10	0	.30	5	0	.5.1	50	.69
2	.10	10	0	.20	5	0	.3.8	40	.41
3	.10	9	0	.50	55	.07	2.9	30	.23
4	.10	9	0	.40	30	.03	4.2	25	.28
5	.10	8	0	.20	20	.01	2.0	20	.11
6	.10	8	0	17	1080	74	32	760	186
7	.10	7	0	6.0	400	6.5	80	900	194
8	.10	7	0	1.5	15	.06	140	2410	1280
9	1.5	370	1.5	1.7	10	.05	117	350	111
10	4.2	540	6.1	5.1	300	4.1	102	65	18
11	.10	70	.02	225	8900	7820	174	760	468
12	.10	35	.01	113	2980	949	71	950	252
13	.10	30	.01	160	5120	2790	27	200	15
14	.10	25	.01	55	600	89	20	80	4.3
15	.10	20	.01	24	390	25	28	55	4.2
16	72	1900	1470	13	60	2.1	23	45	2.8
17	41	2190	445	7.4	25	.50	17	35	1.6
18	81	1730	1750	5.1	20	.28	10	25	.68
19	25	1600	239	4.2	15	.17	3.8	15	.15
20	8.3	80	1.8	3.3	10	.09	103	3260	1540
21	4.2	15	.17	2.9	10	.08	48	800	104
22	3.0	10	.08	2.9	10	.08	75	2140	874
23	2.0	9	.05	2.9	10	.08	26	100	7.0
24	.80	8	.02	2.0	10	.05	21	50	2.8
25	.70	8	.02	1.7	9	.04	21	45	2.6
26	.60	7	.01	1.5	8	.03	20	40	2.2
27	.40	7	.01	4.2	180	2.0	20	35	1.9
28	.30	6	0	24	5680	1030	18	30	1.5
29	.30	6	0	--	--	--	17	25	1.1
30	.50	6	.01	--	--	--	17	65	3.0
31	.40	5	.01	--	--	--	13	50	1.8
TOTAL	247.50	--	3913.84	685.00	--	12793.32	1261.8	--	5081.35

## SAN JUAN CREEK BASIN

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	12	45	1.5	2.0	10	.05	0	0	0
2	12	40	1.3	2.0	10	.05	.10	7	0
3	11	35	1.0	3.4	15	.14	.10	7	0
4	9.2	30	.75	3.4	15	.14	0	0	0
5	11	25	.74	3.4	15	.14	0	0	0
6	11	20	.59	3.4	10	.09	0	0	0
7	10	20	.54	3.2	10	.09	0	0	0
8	10	20	.54	2.9	5	.04	0	0	0
9	8.3	15	.34	2.4	5	.03	0	0	0
10	9.2	10	.25	2.0	5	.03	0	0	0
11	6.5	9	.16	2.9	10	.08	0	0	0
12	7.4	8	.16	3.8	15	.15	0	0	0
13	6.5	8	.14	5.1	25	.34	0	0	0
14	6.5	7	.12	5.1	20	.28	0	0	0
15	6.0	7	.11	6.5	25	.44	0	0	0
16	5.6	6	.09	5.1	30	.41	0	0	0
17	5.1	6	.08	4.7	35	.44	0	0	0
18	4.7	6	.08	4.0	30	.32	0	0	0
19	4.2	5	.06	3.0	25	.20	0	0	0
20	9.2	5	.12	2.0	20	.11	0	0	0
21	7.4	5	.10	.80	15	.03	0	0	0
22	4.2	4	.05	.70	10	.02	0	0	0
23	2.0	4	.02	.60	8	.01	0	0	0
24	6.0	7	.11	.50	6	.01	0	0	0
25	5.6	8	.12	.40	5	.01	0	0	0
26	5.6	9	.14	.30	5	0	0	0	0
27	7.4	10	.20	.20	4	0	0	0	0
28	8.3	10	.22	.10	4	0	0	0	0
29	9.2	10	.25	0	0	0	0	0	0
30	8.3	10	.22	0	0	0	0	0	0
31	--	--	--	0	0	0	--	--	--
TOTAL	229.4	--	10.10	73.90	--	3.65	.20	--	0

DAY	JULY			AUGUST			SEPTEMBER		
	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	0	0	0	0	0	0	0	0	0
2	.10	20	.01	0	0	0	0	0	0
3	.10	20	.01	0	0	0	0	0	0
4	.10	15	0	0	0	0	0	0	0
5	.10	15	0	0	0	0	.10	15	0
6	.10	15	0	0	0	0	0	0	0
7	.10	15	0	0	0	0	0	0	0
8	.10	10	0	0	0	0	0	0	0
9	.10	10	0	0	0	0	.10	15	0
10	.10	10	0	0	0	0	.10	15	0
11	.10	9	0	0	0	0	.10	10	0
12	.10	9	0	0	0	0	.10	10	0
13	.10	9	0	0	0	0	0	0	0
14	.10	8	0	0	0	0	0	0	0
15	.10	8	0	0	0	0	0	0	0
16	.10	8	0	0	0	0	0	0	0
17	.10	7	0	0	0	0	0	0	0
18	.10	7	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0
20	0	0	0	.20	20	.01	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	.10	20	.01	0	0	0
28	0	0	0	.10	15	0	0	0	0
29	0	0	0	.10	10	0	0	0	0
30	0	0	0	.10	10	0	0	0	0
31	0	0	0	0	0	0	--	--	--
TOTAL	1.70	--	.02	.60	--	.02	.50	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)  
 TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

2897.80  
 28778.80

## SAN JUAN CREEK BASIN

109

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (0°G C)	INSTAN- TANFOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
14...	1615	13.5	254	6710	4600	57	60	69	78	88	94
16...	1100	14.0	698	16200	30500	29	31	37	44	54	67
17...	1410	16.0	3.2	492	4.3	69	79	87	93	94	--
DEC.											
04...	1610	14.6	122	5750	1890	44	45	54	63	74	--
JAN.											
17...	1115	15.5	41	1010	112	68	77	86	88	88	90
18...	1300	13.0	16	8	.35	--	--	--	--	--	--
FEB.											
11...	0825	12.0	356	20000	19200	44	46	50	59	66	80
11...	1550	13.0	213	7390	4650	50	57	60	65	72	78
11...	1645	13.0	194	7170	3760	46	52	59	66	73	79
MAR.											
20...	1045	13.0	238	8200	5270	29	32	37	42	51	57

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.										
14...	--	96	--	98	--	100	--	--	--	--
16...	--	78	--	90	--	98	--	100	--	--
17...	95	--	96	--	98	--	100	--	--	--
DEC.										
04...	82	--	86	--	90	--	95	--	97	98
JAN.										
17...	--	91	--	95	--	100	--	--	--	--
18...	100	--	--	--	--	--	--	--	--	--
FEB.										
11...	--	90	--	96	--	99	--	100	--	--
11...	--	82	--	88	--	94	--	100	--	--
11...	--	87	--	95	--	100	--	--	--	--
MAR.										
20...	--	63	--	81	--	96	--	100	--	--





11048500 SAN DIEGO CREEK NEAR IRVINE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	1.2	225	.73	.98	370	.98	.53	1200	1.7
2	1.4	250	.95	1.1	370	1.1	.16	620	.27
3	1.2	220	.71	1.2	380	1.2	.17	650	.30
4	1.0	200	.54	.95	370	.95	.49	945	280
5	.87	170	.40	.79	360	.77	13	600	27
6	.44	150	.18	.81	360	.79	1.5	170	.69
7	.67	170	.31	.61	350	.58	57	2010	637
8	.55	150	.22	.87	380	.89	25	1280	150
9	.64	160	.26	.76	370	.78	10	1040	28
10	.94	200	.51	.83	370	.83	3.5	440	4.2
11	1.3	250	.88	8.9	1600	102	1.7	170	.78
12	1.3	260	.91	.69	300	.56	1.0	120	.32
13	1.4	300	1.1	.30	250	.20	.38	80	.08
14	2.2	550	3.3	69	3100	1230	1.1	150	.45
15	2.0	460	2.5	8.9	690	34	1.2	170	.55
16	2.0	500	2.7	226	3240	3510	1.7	200	.92
17	1.5	450	1.8	23	640	52	.36	150	.15
18	2.1	500	2.8	1.6	200	.86	.10	100	.03
19	2.4	520	3.4	1.0	230	.62	.50	160	.22
20	1.9	470	2.4	.94	250	.63	1.5	200	.81
21	1.9	450	2.3	.55	360	.53	.52	150	.21
22	2.6	500	3.5	.33	340	.30	.82	170	.38
23	2.5	490	3.3	.39	320	.34	.58	150	.23
24	2.2	470	2.8	.15	300	.12	.16	100	.04
25	1.1	400	1.2	.06	290	.05	0	0	0
26	1.2	400	1.3	.06	280	.05	.02	60	0
27	.99	390	1.0	.03	270	.02	.13	100	.04
28	.85	380	.87	.17	630	.29	.71	1600	3.1
29	.54	320	.47	.59	1330	2.1	.38	1600	1.6
30	.86	380	.88	.65	1370	2.4	1.0	1200	3.2
31	1.5	430	1.7	--	--	--	1.0	900	2.4
TOTAL	43.25	--	45.94	352.23	--	4945.94	174.72	--	1144.67

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	.59	600	.96	.09	80	.02	1.8	260	1.3
2	.17	150	.07	.17	90	.04	.30	100	.08
3	.38	200	.21	11	760	36	.02	50	0
4	.30	180	.15	8.0	550	12	1.2	150	.49
5	.84	250	.57	.13	100	.04	.06	60	.01
6	1.8	350	1.7	106	2190	974	.59	110	.18
7	1.8	340	1.7	33	490	48	2.4	280	1.8
8	.59	200	.32	13	140	4.9	109	2120	1460
9	10	990	57	2.7	100	.73	9.4	450	11
10	10	650	30	24	540	96	4.2	200	2.3
11	1.8	270	1.3	532	9400	22300	134	3640	2270
12	2.1	280	1.6	115	4170	1850	73	2050	794
13	.84	240	.54	242	3000	5440	4.2	120	1.4
14	.06	150	.02	25	710	87	2.1	50	.28
15	.48	250	.32	19	550	81	1.2	40	.13
16	161	5020	8370	7.5	500	10	1.0	35	.09
17	70	1660	922	5.1	430	5.9	.71	30	.06
18	175	3100	6210	2.1	250	1.4	.71	25	.05
19	92	2620	1350	.59	110	.18	.13	25	.01
20	5.6	500	7.6	.42	100	.11	197	6050	7040
21	1.2	180	.58	.80	140	.30	38	1490	774
22	.38	90	.09	.33	80	.07	94	2370	1320
23	1.2	190	.62	.48	100	.13	15	690	28
24	3.4	360	3.3	.38	90	.09	11	520	15
25	3.8	370	3.8	.30	90	.07	8.7	400	9.4
26	5.1	450	6.2	.31	80	.07	9.8	500	13
27	3.8	390	4.0	1.0	160	.43	6.5	350	6.1
28	.30	100	.08	187	5810	5970	3.8	230	2.4
29	.06	60	.01	--	--	--	2.1	180	1.0
30	6.6	1030	51	--	--	--	3.8	300	3.1
31	1.4	290	1.1	--	--	--	5.6	680	10
TOTAL	562.59	--	17026.84	1337.40	--	36918.48	741.32	--	13765.18

## PETERS CANYON WASH BASIN

11048500 SAN DIEGO CREEK NEAR IRVINE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	4.6	510	6.3	1.6	1100	4.8	2.9	1400	11
2	1.2	150	.49	1.4	1000	3.8	2.8	1350	10
3	2.1	220	1.2	1.1	1000	3.0	2.7	1300	9.5
4	2.1	160	.91	1.0	1000	2.7	2.3	1200	7.5
5	2.4	200	1.3	3.0	1400	11	2.5	1100	7.4
6	1.4	170	.64	2.4	1350	8.7	1.9	1000	5.1
7	.38	110	.11	1.4	1300	4.9	1.5	800	3.2
8	.23	100	.06	1.8	1350	6.6	2.6	1500	11
9	.13	80	.03	1.6	1300	5.6	2.4	1300	8.4
10	.30	310	.25	1.0	1280	3.5	3.3	1600	14
11	.71	600	1.2	.71	1250	2.4	4.0	1900	21
12	1.0	800	2.2	1.2	1300	4.2	4.2	2100	24
13	.71	600	1.2	3.8	1100	11	4.8	2500	32
14	1.4	850	3.2	2.1	440	2.5	.71	1300	2.5
15	1.4	800	3.0	1.4	210	.79	1.4	1400	5.3
16	.30	300	.24	1.6	330	1.4	1.8	1800	8.7
17	.71	600	1.2	1.6	370	1.6	3.0	3100	25
18	1.0	800	2.2	1.2	150	.49	2.7	2700	20
19	.48	500	.65	2.1	440	2.5	2.4	2500	16
20	.84	750	1.7	2.1	430	2.4	3.0	3100	25
21	1.4	950	3.6	2.0	410	2.2	3.4	3700	34
22	1.0	850	2.3	2.0	400	2.2	3.0	3100	25
23	.48	620	.80	2.8	790	6.0	3.0	3000	24
24	.38	580	.60	3.4	1100	10	2.4	2500	16
25	.71	730	1.4	3.1	910	7.6	2.1	2100	12
26	1.0	800	2.2	.98	980	2.6	1.8	1600	7.8
27	1.6	960	4.1	.82	540	1.2	1.6	1400	6.0
28	1.5	900	3.6	1.2	800	2.6	1.0	1000	2.7
29	1.4	850	3.2	.89	960	2.3	1.6	1400	6.0
30	2.0	1200	6.5	2.1	1200	6.8	1.6	1300	5.6
31	--	--	--	2.0	1150	6.2	--	--	--
TOTAL	34.86	--	56.38	55.40	--	133.58	74.41	--	405.7
DAY	JULY			AUGUST			SEPTEMBER		
	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	1.0	1100	3.0	2.4	1900	12	2.2	1650	9.8
2	1.0	1000	2.7	1.9	1700	8.7	.99	1200	3.2
3	1.8	1650	8.0	1.2	1400	4.5	.69	1000	1.9
4	2.4	1700	11	1.1	1300	3.9	.53	900	1.3
5	2.4	1700	11	1.0	1200	3.2	.76	1050	2.2
6	2.4	1650	11	1.1	1100	3.3	.74	900	1.8
7	2.7	1750	13	.99	1000	2.7	.68	800	1.5
8	3.4	1800	17	1.5	1200	4.9	.97	700	1.8
9	2.4	1700	11	1.6	1250	5.4	.99	650	1.7
10	3.4	1850	17	1.9	1300	6.7	1.3	560	2.0
11	3.4	1700	16	2.6	1500	11	1.6	520	2.2
12	4.2	1800	20	2.2	1400	8.3	2.1	460	2.6
13	3.0	900	7.3	1.9	1300	6.7	2.1	440	2.5
14	4.6	1800	22	1.8	1200	5.8	1.8	420	2.0
15	4.6	1700	21	1.6	1100	4.8	2.4	600	3.9
16	3.0	2500	20	1.9	1200	6.2	2.7	750	5.5
17	3.4	2800	26	1.7	1300	6.0	1.6	400	1.7
18	2.7	2200	16	1.0	1200	3.2	3.0	700	5.7
19	2.7	2100	15	.54	950	1.4	3.0	650	5.3
20	5.1	2800	39	.85	1000	2.3	1.0	300	.81
21	5.1	2800	39	1.3	1500	5.3	1.4	500	1.9
22	4.6	2700	34	1.6	2000	8.6	1.8	600	2.9
23	3.8	2500	26	1.8	2500	12	2.4	550	3.6
24	4.2	2800	32	2.1	3000	17	1.8	450	2.2
25	3.0	2000	16	2.4	3500	23	1.4	500	1.9
26	1.8	1500	7.3	.84	1300	2.9	2.1	430	2.4
27	1.8	1000	4.9	.48	700	.91	1.8	410	2.0
28	2.7	2100	15	.84	900	2.0	1.6	400	1.7
29	3.0	2200	18	.71	800	1.5	1.4	380	1.4
30	2.1	1400	7.9	1.4	1150	4.3	2.7	500	3.6
31	3.1	2000	17	2.1	1600	9.1	--	--	--
TOTAL	94.8	--	524.1	46.35	--	197.61	49.55	--	83.01

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

3566.88

75247.43

## PETERS CANYON WASH BASIN

113

11048500 SAN DIEGO CREEK NEAR IRVINE, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
15...	0820	12.5	8.2	759	17	32	36	38	41	44
16...	1255	14.0	755	6770	13800	40	41	45	50	58
17...	0840	12.0	26	812	57	42	46	51	56	60
JAN.										
18...	2040	--	805	13100	28500	31	34	38	44	51
18...	2200	--	720	1130	2200	30	31	38	44	51
FEB.										
28...	1105	15.5	70	3800	718	43	47	56	61	66
MAR.										
08...	1045	13.5	59	6810	1090	24	25	28	32	39
08...	1330	13.5	120	6150	1990	32	33	37	43	50
20...	0930	11.5	518	12900	18000	26	28	31	36	40
21...	1345	15.0	17	324	15	60	69	71	73	76
22...	0930	14.0	32	1870	162	35	40	42	45	47

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
NOV.										
15...	44	--	52	--	61	--	89	--	100	--
16...	65	--	71	--	81	--	92	--	99	100
17...	65	--	72	--	85	--	100	--	--	--
JAN.										
18...	60	--	74	--	91	--	98	--	100	--
18...	57	--	70	--	87	--	99	--	100	--
FEB.										
28...	73	--	85	--	98	--	100	--	--	--
MAR.										
08...	50	--	70	--	92	--	99	--	100	--
08...	54	--	75	--	92	--	99	--	100	--
20...	46	--	60	--	82	--	97	--	100	--
21...	--	78	--	87	--	96	--	100	--	--
22...	52	--	66	--	85	--	99	--	100	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
FEB.									
28...	1130	15.5	2	70	1	6	38	88	100



## 11048550 SAN DIEGO CREEK AT LANE ROAD, NEAR IRVINE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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	9.6	500	13	8.4	550	12	6.8	130	2.4
2	9.9	550	15	9.6	600	16	6.8	120	2.2
3	11	600	18	9.6	600	16	6.6	110	2.0
4	9.3	450	11	9.9	650	17	105	2570	1780
5	10	500	14	9.6	600	16	18	600	29
6	9.9	450	12	9.3	550	14	11	450	13
7	11	500	15	8.1	500	11	61	2220	616
8	11	500	15	12	650	21	93	2260	973
9	9.9	450	12	6.8	500	9.2	16	150	6.5
10	9.9	400	11	6.1	450	7.4	11	80	2.4
11	9.3	400	10	45	2000	744	11	75	2.2
12	10	450	12	8.4	400	9.1	12	80	2.6
13	9.9	400	11	6.6	250	4.5	12	80	2.6
14	10	450	12	231	3910	6890	13	85	3.0
15	10	500	14	22	1100	65	13	85	3.0
16	10	500	14	512	4140	10300	14	90	3.4
17	12	550	18	86	1060	373	13	85	3.0
18	14	700	26	17	150	6.9	12	80	2.6
19	40	2080	390	11	120	3.6	12	75	2.4
20	12	650	21	7.8	90	1.9	13	80	2.8
21	9.9	600	16	6.3	80	1.4	13	85	3.0
22	9.0	550	13	5.1	70	.96	14	90	3.4
23	8.4	500	11	5.3	80	1.1	13	85	3.0
24	8.1	450	9.8	5.8	90	1.4	14	90	3.4
25	7.6	400	8.2	6.8	140	2.6	15	95	3.8
26	8.4	540	12	7.1	150	2.9	14	90	3.4
27	7.3	500	9.9	7.1	150	2.9	13	85	3.0
28	7.8	550	12	6.8	140	2.6	13	80	2.8
29	6.3	500	8.5	7.3	150	3.0	13	75	2.6
30	6.3	500	8.5	6.8	140	2.6	13	85	3.0
31	8.4	550	12	--	--	--	15	150	6.1
TOTAL	326.2	--	784.9	1100.6	--	18559.06	610.2	--	3491.6

DAY	JANUARY			FEBRUARY			MARCH		
	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	13	120	4.2	6.3	80	1.4	17	250	11
2	14	140	5.3	6.6	80	1.4	10	100	2.7
3	14	135	5.1	16	550	46	9.3	80	2.0
4	15	150	6.1	12	250	8.1	17	150	6.9
5	14	140	5.3	9.6	120	3.1	10	60	1.6
6	13	130	4.6	249	4520	4250	24	415	49
7	14	140	5.3	107	2070	737	35	745	165
8	12	110	3.6	31	150	13	113	2170	1580
9	46	1080	293	22	100	5.9	12	150	4.9
10	22	790	122	35	390	103	9.9	110	2.9
11	10	120	3.2	574	8790	20400	78	2200	940
12	9.9	100	2.7	149	4600	2190	70	1810	616
13	9.6	90	2.3	218	4990	6720	8.9	150	3.6
14	9.3	80	2.0	14	470	18	7.8	100	2.1
15	9.0	70	1.7	39	2250	387	7.6	95	1.9
16	356	3230	10300	13	260	9.1	7.6	90	1.8
17	102	2110	1130	9.9	110	2.9	7.8	85	1.8
18	228	3290	8260	8.1	80	1.7	8.1	90	2.0
19	99	4890	2350	6.6	60	1.1	7.3	85	1.7
20	13	600	21	6.8	50	.92	191	4660	4230
21	9.3	200	5.0	7.1	50	.96	58	1140	1400
22	9.9	150	4.0	6.6	40	.71	104	2000	985
23	9.9	120	3.2	7.3	55	1.1	13	210	7.4
24	12	160	5.2	7.3	50	.99	9.6	150	3.9
25	14	200	7.6	6.3	35	.60	9.6	120	3.1
26	15	250	10	6.3	30	.51	15	440	18
27	16	280	12	16	95	.33	9.9	180	4.8
28	11	150	4.5	131	3010	1550	7.1	90	1.7
29	9.9	100	2.7	--	--	--	7.0	80	1.5
30	25	910	146	--	--	--	7.0	70	1.3
31	7.6	100	2.1	--	--	--	7.0	60	1.1
TOTAL	1162.4	--	22729.7	1720.8	--	36487.49	898.5	--	10054.7

## PETERS CANYON WASH BASIN

11048550 SAN DIEGO CREEK AT LANE ROAD, NEAR IRVINE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	7.0	50	.95	11	400	12	12	1100	36
2	7.0	45	.85	13	650	23	12	1000	32
3	7.0	40	.76	12	500	16	12	900	29
4	7.0	40	.76	12	450	15	13	1300	46
5	7.8	50	1.1	12	400	13	13	1100	39
6	9.0	90	2.2	9.9	300	8.0	12	850	28
7	6.6	50	.89	9.6	250	6.5	13	1200	42
8	5.6	45	.68	9.6	250	6.5	13	1100	39
9	5.1	40	.55	9.9	300	8.0	12	1000	32
10	5.1	35	.48	10	350	9.5	9.9	800	21
11	4.9	35	.46	10	300	8.1	10	900	24
12	4.7	30	.38	10	300	8.1	9.9	850	23
13	5.3	35	.50	9.3	250	6.3	10	900	24
14	5.6	40	.60	9.3	250	6.3	9.0	800	19
15	5.6	35	.53	7.6	200	4.1	9.0	700	17
16	5.8	40	.63	8.1	180	3.9	9.0	600	15
17	8.1	100	2.2	8.1	170	3.7	8.4	550	12
18	8.4	90	2.0	7.6	170	3.5	7.6	500	10
19	7.8	85	1.8	9.9	300	8.0	6.8	450	8.3
20	8.4	90	2.0	10	350	9.5	7.1	500	9.6
21	8.4	90	2.0	10	300	8.1	7.3	550	11
22	8.4	85	1.9	9.6	300	7.8	7.3	500	9.9
23	8.1	80	1.7	10	350	9.5	7.6	550	11
24	8.1	80	1.7	14	850	32	8.1	650	14
25	8.5	140	3.2	15	1100	45	7.6	600	12
26	10	350	9.5	12	850	28	7.6	600	12
27	11	400	12	9.5	500	13	7.3	600	12
28	12	510	17	14	1400	53	7.6	650	13
29	12	500	16	10	550	15	8.1	700	15
30	12	450	15	13	1100	39	8.7	800	19
31	--	--	--	14	1300	49	--	--	--
TOTAL	230.3	--	100.32	330.0	--	478.4	285.9	--	634.8

DAY	JULY			AUGUST			SEPTEMBER		
	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	6.8	500	9.2	10	550	15	9.0	250	6.1
2	7.8	650	14	9.9	500	13	9.0	200	4.9
3	7.8	650	14	10	500	14	10	250	6.8
4	7.8	600	13	10	450	12	9.9	200	5.3
5	8.1	700	15	9.3	400	10	9.9	150	4.0
6	9.6	900	23	9.3	400	10	11	170	5.0
7	10	950	26	10	450	12	12	250	8.1
8	11	1000	30	9.6	450	12	12	200	6.5
9	9.6	800	21	8.4	400	9.1	12	180	5.8
10	11	900	27	8.1	400	8.7	13	300	11
11	10	850	23	9.3	450	11	12	250	8.1
12	11	900	27	9.3	450	11	12	250	8.1
13	10	850	23	10	500	14	12	300	9.7
14	11	900	27	10	500	14	13	350	12
15	12	1000	32	9.3	450	11	11	250	7.4
16	11	900	27	9.9	450	12	10	200	5.4
17	11	900	27	10	500	14	10	180	4.9
18	9.9	850	23	10	500	14	9.6	170	4.4
19	10	900	24	10	450	12	11	200	5.9
20	10	900	24	9.3	450	11	10	180	4.9
21	13	1100	39	9.6	450	12	11	200	5.9
22	13	1000	35	11	500	15	10	190	5.1
23	12	900	29	9.6	450	12	10	180	4.9
24	12	800	26	10	450	12	10	170	4.6
25	12	700	23	9.9	450	12	9.6	160	4.1
26	13	750	26	12	500	16	9.9	170	4.5
27	13	700	25	12	450	15	9.3	160	4.0
28	12	650	21	11	400	12	9.6	180	4.7
29	13	700	25	12	400	13	10	200	5.4
30	16	800	35	10	350	9.5	10	200	5.4
31	10	600	16	9.9	300	8.0	--	--	--
TOTAL	334.4	--	749.2	308.7	--	376.3	317.8	--	182.9

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

7625.8  
94629.37

## PETERS CANYON WASH BASIN

117

11048550 SAN DIEGO CREEK AT LANE ROAD, NEAR IRVINE, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
11...	0820	--	430	6620	7690	49	51	60	71	86
15...	0940	16.5	15	437	18	45	52	57	62	67
16...	0930	14.0	141	8500	3240	38	39	42	50	59
16...	1040	14.0	1040	565	1590	21	27	41	53	63
DEC.										
05...	0930	9.0	15	543	22	47	53	57	60	64
07...	1015	11.0	49	2960	392	50	52	60	68	73
08...	0945	9.5	207	4320	2410	38	39	44	52	60
JAN.										
09...	1530	15.5	18	1080	52	44	53	59	65	68
17...	0900	11.5	46	1690	210	41	42	47	52	55
18...	2015	--	1510	17000	69300	34	35	37	48	56
18...	2140	--	1085	10800	31600	32	33	37	45	53
FEB.										
06...	0930	12.0	426	3820	4390	33	38	42	48	52
06...	1000	12.5	416	6110	6860	33	33	35	42	49
06...	1345	--	598	6640	10500	37	38	41	48	57
28...	1200	17.0	113	2880	879	52	58	69	76	81
MAR.										
20...	0950	12.0	640	8830	15300	25	27	30	36	42
22...	0910	13.0	91	202	50	53	57	62	68	70
MAY										
03...	1325	28.0	15	908	37	67	74	86	91	94
25...	1330	18.5	15	1300	53	68	77	87	92	94
JUNE										
21...	0845	20.0	10	2030	55	56	67	79	91	97

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.									
11...	94	--	98	--	100	--	--	--	--
15...	71	--	80	--	99	--	99	--	100
16...	72	--	89	--	99	--	100	--	--
16...	75	--	89	--	99	--	100	--	--
DEC.									
05...	69	--	82	--	99	--	100	--	--
07...	77	--	84	--	99	--	100	--	--
08...	68	--	80	--	98	--	100	--	--
JAN.									
09...	71	--	81	--	99	--	100	--	--
17...	60	--	73	--	99	--	100	--	--
18...	68	--	88	--	98	--	100	--	--
18...	64	--	82	--	97	--	100	--	--
FEB.									
06...	60	--	75	--	92	--	99	--	100
06...	58	--	72	--	94	--	100	--	--
06...	66	--	79	--	96	--	100	--	--
28...	87	--	94	--	98	--	100	--	--
MAR.									
20...	53	--	72	--	93	--	99	--	100
22...	72	--	85	--	99	--	100	--	--
MAY									
03...	--	95	--	96	--	98	--	100	--
25...	--	95	--	96	--	98	--	100	--
JUNE									
21...	--	99	--	100	--	--	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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	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
FEB.										
28...	1240	17.0	3	109	3	30	85	97	99	100

## SANTA ANA RIVER BASIN

## 11059100 SAN BERNARDINO WATER QUALITY CONTROL PLANT AT SAN BERNARDINO, CALIF.

LOCATION.--Lat 34°04'16", long 117°17'16", in San Bernardino Grant, San Bernardino County, at gaging station, at effluent end of chlorine contact chamber, 0.5 mile upstream from Santa Ana River at "E" Street Bridge.

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.  
Specific conductance: October 1972 to September 1973.

## EXTREMES.--1972-73:

Specific conductance: Maximum recorded, 1,250 micromhos May 9; minimum, 777 micromhos Feb. 12.

REMARKS.--Recorder malfunction Apr. 11 to May 8, May 25-31, Aug. 2-8.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
OCT.				
02...	0900	13	536	936
13...	0930	13	508	977
19...	1045	13	500	980
26...	1000	13	660	968
NOV.				
01...	0850	13	564	987
10...	0900	12	600	1060
20...	1020	12	608	977
DEC.				
01...	0900	12	592	965
08...	0850	30	560	960
15...	0900	32	608	965
20...	0945	32	540	1040
28...	0830	32	596	948
JAN.				
05...	0915	32	600	1060
12...	0845	32	580	894
18...	1050	14	580	975
FEB.				
02...	0900	13	536	1030
14...	1030	13	518	1000
22...	0930	13	518	995
MAR.				
01...	1040	13	479	888
08...	1300	13	515	911
16...	1445	13	524	973
23...	0920	13	543	997
29...	1030	13	507	922
APR.				
05...	1120	13	--	920
11...	1145	30	532	952
19...	0900	30	546	954
27...	1030	32	546	912
MAY				
08...	1430	30	598	1040
14...	1200	30	513	893
22...	0845	30	533	1010
31...	1100	15	542	934
JUNE				
01...	0900	15	552	978
08...	1015	18	501	937
14...	1015	15	475	906
22...	0915	16	538	964
28...	0925	30	476	900
JULY				
06...	1300	30	423	930
12...	0915	30	517	946
19...	1100	15	570	965
25...	1300	32	590	--
AUG.				
01...	0900	13	539	996
07...	0815	13	559	998
22...	0745	8.0	525	919
31...	1100	33	595	985
SEP.				
04...	0915	12	582	981
20...	1505	17	558	991
28...	0925	15	595	--



## SANTA ANA RIVER BASIN

119

11059100 SAN BERNARDINO WATER QUALITY CONTROL PLANT AT SAN BERNARDINO, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1030	951	985	1040	987	1010	1020	929	977	996	906	941
2	1030	908	959	1040	973	1000	1040	962	997	1000	914	955
3	1020	886	974	1080	1020	1040	1030	991	1010	1060	987	1020
4	979	928	957	1040	1000	1020	1030	883	956	1110	1030	1070
5	979	900	942	1030	972	1000	961	867	904	1150	1050	1090
6	1010	917	968	1070	970	1010	1010	920	956	1080	994	1050
7	1060	988	1020	1050	1010	1030	1100	960	992	1000	943	984
8	1030	964	992	1040	984	1010	993	948	971	969	919	937
9	985	940	967	1070	990	1030	1040	943	985	956	899	925
10	1020	961	991	1130	1040	1090	1020	951	984	950	857	905
11	1020	961	999	1100	967	1030	1030	940	979	968	883	918
12	1010	970	983	1000	897	936	1020	972	992	982	888	929
13	1070	944	1010	1020	937	975	1020	920	964	991	896	934
14	1010	961	986	1040	952	1010	1040	960	991	973	905	933
15	991	926	957	1010	926	961	1030	948	985	1010	902	948
16	1010	923	961	1020	937	985	1040	972	1000	1040	954	990
17	1060	979	1010	952	894	907	1060	981	1020	1030	865	945
18	1030	991	1020	1010	958	984	1090	1010	1050	1050	954	989
19	1030	970	1000	1010	943	969	1120	1040	1070	955	864	907
20	1040	962	993	1030	970	995	1120	1040	1070	992	930	958
21	1050	982	1000	1020	986	1000	1090	1010	1050	1010	912	948
22	1050	956	995	1020	966	994	1030	966	991	1010	921	964
23	1070	967	1010	1030	959	987	990	940	964	1100	995	1040
24	1060	965	1020	1040	951	988	978	928	952	1060	960	1010
25	1040	970	999	1040	979	1000	972	911	931	1060	927	981
26	1080	968	1010	998	938	968	1010	903	950	1050	939	988
27	1060	982	1020	996	927	953	1010	920	965	1060	981	1010
28	1060	998	1020	992	932	962	1020	946	975	1050	958	998
29	1030	964	997	1030	960	987	1080	951	1010	1070	983	1020
30	1040	963	1000	1040	958	988	1030	987	1010	1060	1000	1020
31	1070	964	1010	---	---	---	1020	948	987	1040	961	994
MONTH	1080	886	992	1130	894	994	1120	867	988	1150	857	977

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1060	963	1010	1010	888	949	1000	920	957	---	---	---
2	1080	1020	1040	1010	928	973	1070	948	985	---	---	---
3	1040	986	1020	1040	920	975	1070	948	1010	---	---	---
4	1050	979	1010	987	923	959	1070	956	1010	---	---	---
5	1050	966	999	1060	906	979	1050	915	982	---	---	---
6	1040	956	1000	1040	920	982	1110	940	1020	---	---	---
7	1010	926	962	999	860	943	1080	962	1000	---	---	---
8	1090	983	1020	1020	903	957	1010	906	952	---	---	---
9	1080	1000	1040	1010	885	941	1110	921	1010	1250	985	1130
10	1030	980	1010	1010	905	963	1080	958	1020	1230	968	1090
11	1010	820	902	1010	908	953	---	---	---	1160	964	1070
12	931	777	834	1030	885	948	---	---	---	1140	932	1020
13	1030	918	957	1010	918	972	---	---	---	1020	876	937
14	1080	987	1020	1060	938	1010	---	---	---	1100	880	980
15	1100	984	1040	1090	941	1020	---	---	---	1110	913	1010
16	1120	1020	1060	1090	970	1040	---	---	---	1100	901	1000
17	1060	954	1010	1070	954	1010	---	---	---	1090	910	1000
18	954	881	920	1020	914	961	---	---	---	1120	878	997
19	1040	887	945	1070	902	980	---	---	---	1060	879	968
20	1080	960	1010	1010	919	961	---	---	---	1000	879	931
21	1110	996	1050	1030	893	954	---	---	---	1080	900	977
22	1090	969	1030	1040	883	977	---	---	---	1100	925	997
23	1060	993	1000	1090	966	1030	---	---	---	1030	916	939
24	993	937	968	1030	934	990	---	---	---	1040	917	974
25	963	890	928	987	903	947	---	---	---	---	---	---
26	1020	895	943	1030	884	956	---	---	---	---	---	---
27	996	873	937	1030	911	980	---	---	---	---	---	---
28	948	821	899	1040	895	974	---	---	---	---	---	---
29	---	---	---	1060	909	969	---	---	---	---	---	---
30	---	---	---	1060	892	976	---	---	---	---	---	---
31	---	---	---	1020	934	978	---	---	---	---	---	---
MONTH	1120	777	984	1090	860	974	---	---	---	---	---	---

## SANTA ANA RIVER BASIN

11059100 SAN BERNARDINO WATER QUALITY CONTROL PLANT AT SAN BERNARDINO, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1100	912	1010	1020	864	921	1060	975	1010	1020	940	980
2	1060	903	976	1160	846	958	---	---	---	960	830	915
3	1000	862	922	1110	934	1020	---	---	---	1050	900	944
4	1090	862	973	1080	897	979	---	---	---	1050	980	1010
5	1120	953	1040	1120	893	976	---	---	---	1030	948	982
6	1170	932	1050	1130	928	1000	---	---	---	1060	956	1000
7	1130	939	1010	1110	951	1020	---	---	---	1020	900	968
8	1130	914	1020	1060	918	979	---	---	---	980	884	920
9	1050	844	954	1120	930	995	1100	1010	1070	956	868	903
10	955	806	875	1180	937	1020	1070	974	1010	1010	884	968
11	1050	804	913	1100	925	989	1010	908	962	1010	888	980
12	1100	875	980	1020	908	967	947	871	909	1010	936	977
13	1030	882	949	1100	881	964	986	842	913	976	908	946
14	1060	876	967	1100	922	982	1030	901	959	989	924	956
15	1100	893	988	1030	907	952	1080	936	1010	1010	963	994
16	1020	884	956	1100	888	965	1020	955	988	1030	987	1010
17	1010	853	917	1090	897	964	1000	919	961	1080	993	1030
18	1130	876	983	1080	818	949	970	870	907	1090	1010	1050
19	1180	925	1040	1120	965	1040	913	845	878	1060	993	1030
20	1170	956	1060	1220	959	1050	964	868	911	1030	984	1020
21	1230	977	1080	1120	908	985	1000	907	959	1050	1000	1030
22	1130	924	1020	973	802	876	970	880	932	1050	996	1030
23	1050	909	972	1150	864	964	1040	930	982	995	959	983
24	1020	857	921	1220	992	1060	1010	936	977	1080	947	1010
25	1100	872	958	1150	965	1040	993	939	959	1110	1020	1070
26	1050	877	972	1160	933	1020	954	914	931	1090	1040	1070
27	1060	849	952	1140	984	1050	980	900	937	1090	1020	1060
28	1070	856	961	1070	893	953	986	931	958	1090	1040	1070
29	1110	876	977	945	809	879	1000	974	985	1060	986	1020
30	1010	876	944	1060	838	922	1010	973	991	998	946	980
31	---	---	---	1220	947	1040	1060	986	1010	---	---	---
MONTH	1230	804	979	1220	802	983	---	---	---	1110	830	997

## SANTA ANA RIVER BASIN

121

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CALIF.

LOCATION.--Lat 33°58'04", long 117°26'46", in NE1/4NE1/4SW1/4 sec.30, T.2 S., R.5 W., Riverside County, at gaging station on left bank, 300 ft upstream from MWD Crossing, 0.7 mile downstream from Union Pacific Railroad bridge, 1.2 miles upstream from bridge on Van Buren Boulevard, and 3.3 miles north of Arlington.

DRAINAGE AREA.--854 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

Specific conductance: October 1969 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum recorded, 1,220 micromhos June 8; minimum recorded, 424 micromhos Dec. 8.

Period of record:

Specific conductance: Maximum recorded, 1,320 micromhos Nov. 4, 1969; minimum, 95 micromhos Nov. 27, 1970.

REMARKS.--Specific conductance probe or recorder malfunction Oct. 21-25, Nov. 5-9, 14-19, Jan. 16, 17, 19, Feb. 6 to Apr. 1, Apr. 6-19, Apr. 27 to May 2, June 10 to Aug. 5, Aug. 12-16.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
NOV.										
14...	1600	186	11	.07	.23	11	1.1	1.4	2.9	4.0
16...	1330	256	2.1	.06	.20	2.2	.72	.93	3.8	4.5
30...	1030	28	8.2	.17	.56	8.4	.46	.59	.12	.58
FEB.										
12...	1430	676	2.6	.03	.10	2.6	4.6	5.9	5.4	10
AUG.										
09...	1330	19	9.5	.49	1.6	10	--	--	.00	.58

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
NOV.										
14...	1.4	.46	311	14.0	41	10	0	1	2	0
16...	1.7	.47	308	14.0	43	3	0	1	2	0
30...	.60	.40	1090	16.5	3.0	20	1	0	0	0
FEB.										
12...	7.2	.33	--	15.0	92	9	5	60	1	0
AUG.										
09...	.85	.64	1120	--	5.0	4	3	<10	0	0

DATE	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV.										
14...	0	12	2	110	260	260	.8	.0	280	160
16...	0	16	5	100	230	210	1.5	--	320	170
30...	0	1	1	12	4	2	.2	1.7	40	10
FEB.										
12...	0	230	2	400	800	3	1.0	.0	1100	0
AUG.										
09...	0	<25	1	10	<50	1	.2	.1	160	10

## SANTA ANA RIVER BASIN

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT.					
02...	1020	19	672	1090	--
12...	1230	22	676	1100	--
18...	1130	21	676	1090	--
26...	1130	22	784	1100	--
31...	1050	21	680	1110	--
NOV.					
09...	1130	24	696	1040	--
14...	1600	186	--	311	14.0
16...	1330	256	--	308	14.0
17...	1550	52	584	864	--
20...	1245	27	720	1080	--
21...	1100	24	696	1070	--
30...	1030	28	--	1090	16.5
DEC.					
01...	1115	28	752	1060	--
08...	1030	32	250	424	--
15...	0945	32	704	1090	--
20...	1045	32	676	1090	--
28...	1000	32	688	999	--
JAN.					
05...	1030	32	676	1090	--
12...	1050	32	744	1030	--
17...	1140	26	452	710	--
FEB.					
01...	1100	27	695	1080	--
09...	1330	28	711	1080	--
14...	1415	92	364	563	--
22...	1200	34	714	1090	--
MAR.					
01...	1030	25	682	1030	--
08...	1030	60	479	752	--
16...	0930	29	705	1090	--
23...	1130	67	689	1050	--
25...	1445	45	--	1070	--
29...	1445	34	686	1050	--
APR.					
05...	1300	21	689	1100	--
13...	1245	27	630	966	--
19...	1040	25	723	1080	--
27...	1215	27	713	1070	--
MAY					
03...	1500	26	736	1110	--
08...	1130	25	687	1070	--
15...	1100	25	662	1030	--
15...	1230	25	670	1040	--
16...	1600	25	676	1090	--
17...	0900	25	633	1010	--
18...	1600	25	666	1090	--
19...	1600	25	687	1100	--
20...	1600	25	694	1090	--
21...	1130	25	683	1050	--
22...	1615	25	712	1090	--
31...	1420	26	710	1050	--
JUNE					
07...	1000	27	666	1090	--
13...	1000	24	682	1100	--
26...	1230	19	702	1100	--
JULY					
06...	1030	20	665	1070	--
12...	1100	20	679	1080	--
19...	1145	28	688	1040	--
27...	1020	19	662	1080	--
AUG.					
09...	1330	19	--	1120	--
09...	1420	19	732	1110	--
17...	1320	17	737	1090	--
22...	1000	18	690	1090	--
31...	1200	23	695	1070	--
SEP.					
04...	1130	20	764	1090	--
12...	1240	19	692	1080	--
20...	1330	28	664	1010	--
28...	1110	22	722	1100	--

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1160	1100	1120	1140	1090	1120	1070	1050	1060	1090	1060	1080
2	1140	1080	1110	1140	1100	1110	1060	1030	1050	1110	1050	1080
3	1150	1090	1110	1110	1080	1100	1050	1030	1040	1120	1100	1100
4	1140	1100	1120	1150	1100	1130	1040	922	968	1100	1050	1080
5	1150	1080	1110	---	---	---	1060	719	974	1090	1070	1080
6	1140	1100	1120	---	---	---	1060	992	1040	1080	1070	1080
7	1150	1090	1120	---	---	---	956	428	707	1100	1050	1070
8	1120	1070	1100	---	---	---	1030	424	725	1080	1020	1060
9	1130	1090	1110	---	---	---	1060	1030	1040	1070	669	938
10	1130	1070	1100	1120	1050	1100	1070	1030	1060	1040	720	931
11	1130	1070	1100	1070	501	948	1080	1060	1070	1050	1030	1030
12	1130	1080	1100	1150	929	1080	1070	1060	1060	1040	1020	1030
13	1130	1080	1100	1190	1140	1180	1100	1060	1070	1060	924	1000
14	1120	1070	1100	---	---	---	1100	1070	1080	1060	908	980
15	1110	1100	1100	---	---	---	1120	1080	1090	899	797	845
16	1110	1070	1090	---	---	---	1100	1080	1090	---	---	---
17	1110	1070	1090	---	---	---	1120	1090	1100	---	---	---
18	1110	1080	1090	---	---	---	1120	1110	1110	990	885	936
19	1120	1090	1100	---	---	---	1110	1080	1100	---	---	---
20	1150	1120	1140	1090	1040	1080	1110	1090	1090	665	651	659
21	---	---	---	1090	1050	1070	1090	1080	1080	677	663	667
22	---	---	---	1090	1050	1070	1070	1060	1060	713	679	693
23	---	---	---	1080	1060	1070	1050	1050	1050	757	711	734
24	---	---	---	1090	1060	1070	1060	1050	1060	800	747	773
25	---	---	---	1090	1060	1060	1050	1040	1040	849	805	827
26	1100	1080	1090	1060	1040	1050	1050	1020	1030	896	841	868
27	1080	1060	1070	1100	1060	1080	1030	939	999	940	885	913
28	1110	1070	1090	1100	1050	1080	1010	996	1000	992	943	968
29	1110	1090	1100	1080	1030	1070	1070	1050	1060	1020	980	1000
30	1120	1100	1110	1090	1030	1050	1100	1080	1090	1050	1020	1030
31	1150	1100	1120	---	---	---	1100	1080	1090	1070	1050	1050
MONTH	1160	1060	1100	---	---	---	1120	424	1030	1120	651	946
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1090	1020	1050	---	---	---	---	---	---	---	---	---
2	1040	1010	1020	---	---	---	1190	1030	1150	---	---	---
3	1100	548	988	---	---	---	1130	1090	1110	1140	1090	1110
4	1110	840	1040	---	---	---	1100	1070	1080	1100	1070	1090
5	1110	1060	1090	---	---	---	1150	1050	1100	1090	1040	1070
6	---	---	---	---	---	---	---	---	---	1080	1060	1070
7	---	---	---	---	---	---	---	---	---	1130	1070	1110
8	---	---	---	---	---	---	---	---	---	1110	1050	1080
9	---	---	---	---	---	---	---	---	---	1080	959	1030
10	---	---	---	---	---	---	---	---	---	1130	953	1030
11	---	---	---	---	---	---	---	---	---	1090	998	1050
12	---	---	---	---	---	---	---	---	---	1090	1010	1050
13	---	---	---	---	---	---	---	---	---	1090	991	1050
14	---	---	---	---	---	---	---	---	---	1100	1030	1080
15	---	---	---	---	---	---	---	---	---	1070	976	1020
16	---	---	---	---	---	---	---	---	---	1110	999	1040
17	---	---	---	---	---	---	---	---	---	1100	980	1040
18	---	---	---	---	---	---	---	---	---	1120	996	1060
19	---	---	---	---	---	---	---	---	---	1120	1050	1080
20	---	---	---	---	---	---	1110	1060	1090	1120	1040	1080
21	---	---	---	---	---	---	1110	1090	1100	1110	1030	1070
22	---	---	---	---	---	---	1100	1060	1080	1090	994	1040
23	---	---	---	---	---	---	1120	1060	1090	1100	1030	1060
24	---	---	---	---	---	---	1100	1070	1090	1110	1020	1060
25	---	---	---	---	---	---	1120	1050	1070	1100	1030	1060
26	---	---	---	---	---	---	1130	1090	1110	1120	1040	1070
27	---	---	---	---	---	---	---	---	---	1160	1040	1120
28	---	---	---	---	---	---	---	---	---	1180	1130	1150
29	---	---	---	---	---	---	---	---	---	1130	1030	1080
30	---	---	---	---	---	---	---	---	---	1120	1010	1060
31	---	---	---	---	---	---	---	---	---	1130	1030	1070
MONTH	---	---	---	---	---	---	---	---	---	1180	953	1070

## SANTA ANA RIVER BASIN

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1080	1010	1040	---	---	---	---	---	---	1120	1110	1110
2	1100	1010	1040	---	---	---	---	---	---	1100	1080	1090
3	1180	1030	1140	---	---	---	---	---	---	1100	1080	1090
4	1190	1140	1160	---	---	---	---	---	---	1130	1090	1100
5	1180	1140	1160	---	---	---	---	---	---	1130	1110	1110
6	1190	1130	1150	---	---	---	1110	1060	1100	1110	1060	1080
7	1170	1090	1130	---	---	---	1060	1010	1040	1100	1060	1080
8	1220	1120	1140	---	---	---	1090	912	931	1130	1050	1090
9	1170	1100	1120	---	---	---	1120	1010	1060	1110	1060	1090
10	---	---	---	---	---	---	1060	967	1030	1100	1070	1080
11	---	---	---	---	---	---	1070	1030	1060	1090	1030	1070
12	---	---	---	---	---	---	---	---	---	1130	1060	1090
13	---	---	---	---	---	---	---	---	---	1090	1070	1080
14	---	---	---	---	---	---	---	---	---	1180	1070	1100
15	---	---	---	---	---	---	---	---	---	1130	1030	1090
16	---	---	---	---	---	---	---	---	---	1150	1030	1090
17	---	---	---	---	---	---	1090	1030	1050	1180	1040	1120
18	---	---	---	---	---	---	1080	1030	1060	1080	1040	1060
19	---	---	---	---	---	---	1080	970	1030	1100	1040	1070
20	---	---	---	---	---	---	1010	990	998	1100	1010	1070
21	---	---	---	---	---	---	1100	982	1040	1110	1020	1060
22	---	---	---	---	---	---	1090	1030	1070	1110	1060	1100
23	---	---	---	---	---	---	1070	1010	1050	1130	1100	1110
24	---	---	---	---	---	---	1040	1010	1030	1150	1110	1120
25	---	---	---	---	---	---	1140	1050	1090	1130	1070	1110
26	---	---	---	---	---	---	1130	1080	1100	1130	1110	1130
27	---	---	---	---	---	---	1150	1100	1120	1140	1080	1110
28	---	---	---	---	---	---	1100	1060	1080	1160	1090	1130
29	---	---	---	---	---	---	1090	1040	1070	1120	1090	1110
30	---	---	---	---	---	---	1090	1050	1080	1110	1050	1100
31	---	---	---	---	---	---	1120	1060	1090	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	1180	1010	1090

## SANTA ANA RIVER BASIN

125

11066480 RIVERSIDE WATER QUALITY CONTROL PLANT AT RIVERSIDE NARROWS, NEAR ARLINGTON, CALIF.

LOCATION.--Lat 33°57'53", long 117°27'26", in SE<sup>1</sup>NE<sup>1</sup>SE<sup>1</sup> sec.25, T.2 S., R.6 W., Riverside County, 300 feet downstream from gaging station, on discharge pipe of Riverside Water Quality Control Plant on left bank of Santa Ana River, 0.4 mile upstream from Van Buren Boulevard, and 3.1 miles northwest of Arlington.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

Specific conductance: October 1969 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum, 1,460 micromhos Oct. 3; minimum, 783 micromhos Feb. 13.

Period of record:

Specific conductance: Maximum, 1,740 micromhos Oct. 29, 1971; minimum, 672 micromhos May 5, 1971.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	/DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
OCT.				
02...	1200	32	780	1260
12...	1330	32	700	1100
18...	1210	30	792	1250
26...	1200	32	872	1260
31...	1130	32	784	1360
NOV.				
09...	0930	38	768	1300
20...	1145	35	664	985
DEC.				
01...	1130	41	692	1060
08...	1040	32	596	1070
15...	1050	32	640	1060
20...	1130	32	724	1230
28...	1040	32	788	1190
JAN.				
05...	1115	32	692	1220
12...	1145	32	640	994
17...	1300	32	616	1000
FEB.				
01...	1200	32	664	1140
09...	1400	32	699	1280
14...	1400	32	681	1150
22...	1400	32	--	1170
MAR.				
02...	1115	32	712	1170
08...	1130	32	625	1080
16...	0900	32	689	1190
23...	1200	32	637	1110
29...	1330	27	706	1150
APR.				
06...	1400	28	748	1250
11...	1500	31	655	1080
19...	1145	32	614	1020
27...	1245	33	712	1170
MAY				
08...	0930	32	700	1080
14...	1345	32	630	1020
22...	1000	32	703	1120
JUNE				
01...	0900	26	688	1090
07...	1130	32	638	1140
13...	1100	33	654	1090
21...	1355	32	785	1350
28...	1330	26	670	1210
JULY				
06...	1200	26	695	1160
12...	1030	26	640	1130
19...	1300	32	698	1110
26...	--	--	729	1160
27...	1100	30	714	1150
AUG.				
01...	1040	30	708	1170
10...	1445	32	701	1100
17...	1330	35	738	1130
22...	1020	32	688	1120
31...	1220	33	649	1100
SEP.				
04...	1250	32	564	947
12...	1300	30	568	980
20...	1300	30	596	993
28...	1140	31	714	1160

## SANTA ANA RIVER BASIN

11066480 RIVERSIDE WATER QUALITY CONTROL PLANT AT RIVERSIDE NARROWS, NEAR ARLINGTON, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1330	1250	1280	1370	1270	1300	1130	1050	1100	1100	1090	1090
2	1390	1230	1300	1310	1260	1290	1120	1060	1100	1150	1040	1090
3	1460	1320	1380	1300	1260	1290	1120	1090	1100	1250	1070	1140
4	1430	1330	1380	1300	1200	1260	1130	1060	1100	1260	1140	1180
5	1430	1310	1370	1250	1210	1270	1180	1030	1100	1260	1170	1210
6	1440	1340	1400	1270	1190	1240	1190	1100	1140	1160	1090	1120
7	1410	1340	1370	1270	1250	1260	1180	1060	1120	1110	1040	1080
8	1400	1250	1310	1270	1240	1250	1130	1070	1100	1110	965	1040
9	1310	1200	1260	1300	1180	1270	1090	1010	1060	1110	1010	1050
10	1290	1230	1270	1300	1190	1240	1060	995	1030	1050	986	1010
11	1310	1210	1270	1310	1040	1220	1040	958	1010	1060	1000	1040
12	1280	1100	1230	1190	1120	1150	1120	1000	1050	1060	992	1030
13	1340	1150	1230	1130	1060	1100	1130	1040	1090	1060	1010	1040
14	1270	1200	1230	1150	1080	1130	1110	989	1060	1050	1010	1030
15	1280	1180	1220	1140	1090	1110	1130	1030	1080	1090	969	1030
16	1370	1190	1260	1140	1080	1110	1120	1050	1080	1090	1080	1080
17	1370	1280	1330	1110	1070	1080	1050	981	1030	1090	996	1030
18	1400	1250	1320	1110	1090	1100	1130	1020	1080	1070	1010	1040
19	1360	1270	1320	1090	1010	1050	1260	1080	1150	1160	1000	1070
20	1360	1240	1300	1110	985	1040	1330	1230	1280	1170	1110	1140
21	1340	1250	1290	1140	1040	1090	1360	1270	1300	1120	1020	1070
22	1260	1170	1230	1170	1070	1120	1410	1320	1380	1170	988	1040
23	1370	1170	1270	1150	1060	1110	1350	1220	1290	1170	1060	1100
24	1380	1290	1340	1170	1040	1100	1230	1100	1160	1200	1080	1120
25	1390	1260	1310	1190	1090	1140	1140	1050	1090	1210	1140	1170
26	1320	1240	1280	1180	1080	1120	1070	1010	1050	1150	1100	1130
27	1330	1230	1280	1140	1010	1080	1190	1070	1130	1150	1100	1120
28	1330	1260	1300	1250	1090	1160	1270	1160	1200	1100	1050	1070
29	1320	1220	1260	1200	1090	1140	1240	1110	1160	1090	1020	1060
30	1440	1210	1280	1160	1080	1120	1160	1080	1110	1190	1070	1110
31	1390	1320	1370	---	---	---	1160	1090	1130	1210	1140	1180
MONTH	1460	1100	1300	1370	985	1160	1410	958	1120	1260	965	1090
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1200	1140	1160	1220	1150	1190	1320	1220	1280	1170	1090	1140
2	1210	1100	1160	1270	1170	1220	1290	1140	1230	1230	1070	1160
3	1190	1110	1140	1290	1240	1250	1290	1210	1260	1270	1050	1210
4	1100	1020	1080	1230	1150	1190	1300	1190	1240	1320	1170	1230
5	1250	1030	1120	1230	1120	1180	1210	1140	1190	1250	1140	1190
6	1270	1160	1200	1270	1150	1210	1310	1130	1230	1150	1030	1080
7	1220	1110	1160	1270	1140	1200	1250	1150	1190	1120	1040	1080
8	1220	1090	1160	1240	1080	1160	1150	1020	1080	1230	1070	1160
9	1340	1100	1220	1150	1080	1130	1190	997	1100	1350	1130	1240
10	1110	1080	1090	1190	1110	1150	1170	1080	1140	1410	1220	1300
11	1110	964	1030	1180	1050	1110	1210	1030	1120	1360	1080	1260
12	1090	950	1020	1090	984	1060	1170	1040	1110	1350	1110	1230
13	1170	783	1080	1160	1060	1120	1150	1040	1100	1260	1100	1170
14	1220	1110	1190	1200	1080	1160	1110	1040	1080	1130	939	1060
15	1300	1180	1240	1230	1120	1180	1080	917	997	1150	1060	1100
16	1300	1200	1250	1210	1130	1190	1100	895	1010	1180	1120	1160
17	1440	1220	1300	1210	1090	1150	1170	1080	1120	1220	1110	1170
18	1210	1140	1120	1120	1020	1090	1180	1010	1090	1270	1040	1170
19	1200	1120	1160	1180	1000	1100	1130	1000	1060	1210	1010	1140
20	1270	1140	1180	1200	1100	1140	1200	1060	1150	1180	995	1090
21	1290	1180	1240	1170	1060	1120	1190	1080	1140	1130	981	1070
22	1320	1170	1220	1200	1100	1150	1180	1040	1100	1220	986	1160
23	1280	1140	1210	1230	1110	1180	1210	1040	1120	1160	1030	1120
24	1340	1200	1240	1190	1090	1140	1250	1050	1190	1170	1040	1120
25	1180	1040	1110	1170	1050	1110	1230	1090	1170	1190	897	1110
26	1180	1020	1120	1140	1020	1100	1270	1170	1220	1210	999	1140
27	1240	1110	1180	1200	1100	1140	1270	1170	1230	1120	1000	1070
28	1360	1160	1230	1230	1140	1190	1240	1160	1200	1160	993	1090
29	---	---	---	1310	1140	1220	1210	1060	1110	1210	999	1140
30	---	---	---	1250	1180	1220	1190	1030	1090	1220	1090	1130
31	---	---	---	1270	1230	1250	---	---	---	1170	1030	1100
MONTH	1440	783	1170	1310	984	1160	1320	895	1140	1410	897	1150



11066480 RIVERSIDE WATER QUALITY CONTROL PLANT AT RIVERSIDE NARROWS, NEAR ARLINGTON, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1180	964	1120	1220	1110	1150	1240	1150	1240	1140	1060	1080
2	1140	1020	1080	1200	1060	1060	1270	1140	1210	1070	1000	1040
3	1110	1000	1060	1290	1140	1210	1250	1100	1190	1020	940	990
4	1160	909	1060	1280	1210	1240	1200	1100	1150	1050	896	984
5	1240	1020	1120	1230	1120	1200	1170	1030	1080	1090	973	1010
6	1250	1080	1200	1250	1170	1220	1160	975	1080	1050	954	993
7	1240	1140	1200	1240	1170	1210	1150	1030	1100	1030	928	977
8	1260	1190	1230	1220	1110	1170	1220	1110	1160	1040	963	1010
9	1260	1170	1200	1140	1080	1110	1190	1070	1120	1010	934	971
10	1200	1090	1150	1180	1080	1120	1150	1040	1120	979	871	938
11	1250	1130	1180	1200	1120	1170	1160	1080	1130	1020	950	999
12	1260	1090	1170	1210	1130	1180	1130	1050	1100	1040	963	1020
13	1270	1090	1190	1220	1110	1170	1140	1010	1090	1070	973	1030
14	1240	1160	1200	1220	1100	1190	1200	1090	1140	1080	1030	1060
15	1230	1160	1210	1190	1080	1140	1150	1070	1130	1090	988	1040
16	1270	1150	1210	1180	1040	1140	1200	1110	1160	1010	895	954
17	1250	1150	1190	1170	1050	1130	1210	1110	1170	1060	894	983
18	1280	1120	1200	1230	1100	1150	1180	1110	1150	1120	1020	1070
19	1330	1160	1240	1240	1110	1170	1180	1060	1140	1130	996	1060
20	1330	1190	1260	1220	1070	1140	1170	1040	1120	1130	986	1050
21	1370	1210	1310	1130	1060	1100	1190	1070	1130	1130	1020	1080
22	1360	1220	1300	1130	970	1070	1180	1110	1150	1070	1010	1040
23	1320	1200	1260	1140	1010	1100	1160	1060	1130	1050	972	1000
24	1240	1170	1210	1200	1000	1110	1160	1120	1150	1060	942	1000
25	1280	1190	1230	1170	1070	1140	1160	1070	1110	1130	1090	1110
26	1320	1190	1250	1170	1080	1140	1120	996	1070	1130	1060	1110
27	1300	1190	1270	1250	1130	1200	1070	969	1030	1180	1070	1140
28	1270	1150	1230	1220	1140	1180	1110	1060	1080	1230	1130	1190
29	1300	1060	1240	1170	1070	1110	1120	1060	1090	1200	1130	1170
30	1270	1210	1240	1190	990	1110	1120	1020	1080	1150	1000	1070
31	---	---	---	1240	1130	1190	1160	1070	1120	---	---	---
MONTH	1370	909	1200	1290	970	1150	1270	969	1130	1230	871	1040

## SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.

LOCATION.--Lat 33°53'00", long 117°38'40", in La Sierra Grant, Riverside County, at gaging station at outlet channel, 2,500 ft downstream from axis of Prado Dam, and 4.5 miles west of Corona.

DRAINAGE AREA.--1,490 sq mi, not including 768 sq mi upstream from Lake Elsinore.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1973.

Chloride: October 1970 to September 1971.

Specific conductance: October 1969 to September 1973.

Water temperatures: October 1969 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum, 1,650 micromhos Dec. 12; minimum, 413 micromhos Feb. 12.

Water temperatures: Maximum recorded, 30.0°C Aug. 18; minimum recorded, 5.0°C Jan. 6, 7.

Period of record:

Specific conductance: Maximum, 1,830 micromhos Apr. 30, 1971; minimum, 350 micromhos Mar. 17, 1971.

Water temperatures: Maximum, 36.0°C Sept. 4, 1972; minimum, 2.5°C Dec. 30, 1969.

REMARKS.--Selected chemical analyses furnished by California Department of Water Resources. Periods of missing conductivity and temperature record due to recorder malfunction or probe out of water.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT.					
02...	1540	35	736	1190	--
13...	1110	36	740	1210	--
18...	0925	53	800	1240	--
26...	1540	59	828	1200	--
27...	0815	63	744	1240	15.5
NOV.					
01...	1300	55	868	1210	--
10...	1030	63	752	1200	--
15...	1400	128	--	1218	12.0
16...	1645	139	768	1120	--
17...	1400	212	572	888	--
20...	1600	246	696	1060	--
30...	1400	66	720	1200	14.5
30...	1420	66	--	1220	14.2
DEC.					
01...	1400	65	836	1220	--
08...	1315	242	588	958	--
14...	--	--	824	1263	--
15...	1345	75	796	1250	--
20...	1445	79	764	1260	--
29...	1200	66	828	1240	--
30...	1320	66	745	1200	9.5
JAN.					
05...	1400	61	856	1350	--
12...	1230	96	820	1170	--
13...	1350	89	339	513	--
17...	0930	175	362	584	--
18...	1330	233	314	484	--
22...	1315	270	401	603	--
23...	1015	200	498	785	--
30...	1000	178	840	1310	--
FEB.					
01...	1400	158	896	1350	12.0
02...	0930	104	819	1290	--
06...	0915	232	645	998	--
07...	1200	227	367	570	--
09...	1430	170	--	830	13.7
09...	1530	170	554	818	--
12...	0940	204	376	586	--
14...	0900	212	358	549	--
15...	0900	212	363	546	--
16...	0930	209	330	505	--
16...	1315	209	311	496	--
20...	0915	195	327	527	--
21...	1015	191	356	546	--
22...	0915	191	359	606	--
22...	1135	192	373	626	--
23...	0930	190	389	633	--
26...	0915	185	451	730	--
27...	0845	185	460	750	--
28...	1415	185	491	797	--
MAR.					
01...	0800	185	495	740	11.0
01...	1030	183	487	783	--
02...	0915	183	483	821	--
02...	1415	194	522	834	--
05...	0945	183	503	857	--
06...	0920	123	514	899	--
07...	1300	163	552	874	--
08...	1000	165	532	887	--
08...	1400	165	535	856	--
09...	0915	163	588	911	--
12...	0930	163	612	907	--
13...	0900	163	584	885	--
14...	0930	161	552	840	--
15...	0900	160	501	813	--
16...	0900	160	536	805	--
16...	1300	160	556	849	--
19...	0945	158	542	846	--
20...	0900	158	516	716	--
21...	0930	158	543	836	--
22...	0915	160	560	771	--

## SANTA ANA RIVER BASIN

129

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
MAR.					
23...	0930	160	549	851	--
23...	1330	160	557	866	--
26...	0900	466	568	896	--
27...	0900	560	544	808	--
28...	0830	550	--	825	--
28...	0930	541	552	838	--
29...	0900	527	552	814	--
30...	0915	520	560	830	--
APR.					
02...	0900	150	572	901	--
03...	0930	147	564	882	--
04...	0930	144	552	851	--
05...	1030	143	602	916	--
06...	0930	143	621	947	--
06...	1215	148	572	979	--
09...	0800	143	626	963	--
10...	0900	155	629	968	--
11...	0930	165	614	965	--
11...	1345	163	633	980	--
12...	0930	163	639	994	--
12...	1345	163	593	900	16.0
13...	0945	165	633	988	--
16...	0900	160	610	996	--
17...	0900	160	615	1000	--
18...	0900	160	621	1000	--
19...	0900	160	629	1010	--
19...	1410	158	627	1020	--
20...	0900	158	624	1000	--
23...	0800	155	648	1020	--
24...	1000	155	652	1010	--
25...	0800	155	660	1030	--
26...	0730	170	651	1020	--
26...	1530	170	686	1040	--
27...	0900	170	639	975	15.5
30...	1000	163	688	1060	--
MAY					
01...	0930	170	671	1070	--
02...	0900	170	690	1080	--
03...	0915	163	711	1120	--
04...	0800	163	696	1130	--
08...	1045	165	704	1140	--
09...	0730	163	703	1120	--
10...	0730	160	689	1120	--
11...	0930	158	752	1120	--
14...	1000	153	702	1140	--
15...	1015	163	669	1130	--
16...	1000	158	696	1160	--
17...	1230	153	704	1160	--
18...	1000	150	775	1180	--
21...	0930	143	794	1210	--
22...	1100	155	810	1240	--
22...	1220	158	832	1230	--
23...	1100	148	848	1300	--
23...	1130	148	--	1280	--
24...	0730	135	828	1420	16.0
24...	1100	126	890	1390	--
JUNE					
01...	1210	75	--	1200	--
01...	1335	75	782	1200	--
07...	1100	77	715	1153	--
07...	1430	77	708	1160	--
13...	1600	67	770	1190	--
17...	1600	60	--	1180	--
22...	1230	48	727	1180	--
28...	1330	50	750	1180	--
28...	1530	48	--	1180	--
29...	0700	48	746	1130	19.5
JULY					
06...	1300	48	--	1180	24.0
06...	1400	48	715	1180	--
11...	1330	50	757	1170	24.6
19...	1330	54	--	1140	23.8
19...	1331	55	743	1130	--
26...	1315	48	683	1050	25.5
27...	1345	41	754	1110	24.8
AUG.					
03...	1130	51	--	1140	23.8
09...	1430	46	--	1170	--
10...	1540	45	696	1110	--
17...	1000	43	742	1110	--
22...	1300	43	722	1100	--
24...	0830	38	--	1150	--
28...	1030	41	--	1140	--
28...	1100	41	653	1110	--
29...	0815	39	683	1080	17.0
SEP.					
06...	1100	50	726	1170	--
06...	1130	50	--	1163	18.5
12...	1015	52	740	1120	--
14...	1315	55	--	1130	20.1
19...	1315	4.0	796	1200	--
21...	1100	3.6	--	1440	19.0
28...	0730	3.0	969	1400	16.0
28...	1500	3.0	--	1570	--

## SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)
OCT.												
27...	0815	63	--	--	--	99	27	120	9.7	310	0	254
NOV.												
15...	1400	128	--	--	--	--	--	--	--	--	--	--
17...	1300	--	--	--	--	--	--	--	--	--	--	--
30...	1400	66	--	--	--	100	27	120	9.4	310	0	254
30...	1420	66	--	--	--	--	--	--	--	--	--	--
DEC.												
14...	--	--	--	--	--	110	29	120	9.0	312	0	256
30...	1320	66	--	--	--	97	30	120	8.3	320	0	262
FEB.												
01...	1400	158	--	--	--	120	34	140	11	340	0	279
09...	1430	170	--	--	--	--	--	--	--	--	--	--
12...	1530	203	--	--	--	--	--	--	--	--	--	--
MAR.												
01...	0800	185	--	--	--	67	17	68	18	260	0	213
APR.												
12...	1345	163	--	--	--	79	24	94	16	300	0	246
27...	0900	170	--	--	--	86	23	100	16	320	0	262
MAY												
24...	0730	135	--	--	--	120	30	130	10	400	0	328
JUNE												
07...	1100	77	--	--	--	88	34	110	8.4	339	0	278
29...	0700	48	--	--	--	97	27	110	7.8	290	0	238
JULY												
06...	1300	48	28	--	--	100	24	110	8.3	324	0	266
11...	1330	50	29	10	--	100	24	110	7.6	327	0	268
19...	1330	54	28	40	--	98	24	110	7.9	270	0	221
26...	1315	48	--	--	--	90	26	110	7.6	280	0	230
27...	1345	41	28	20	--	99	23	110	8.1	314	0	258
AUG.												
03...	1130	51	28	40	--	100	23	110	7.9	313	0	257
09...	1430	46	--	--	--	--	--	--	--	--	--	--
17...	1000	43	26	20	270	99	24	110	7.6	315	--	258
24...	0830	38	29	40	--	98	23	110	8.0	255	0	209
28...	1030	41	30	40	--	97	23	110	8.3	301	0	247
29...	0815	39	--	--	--	95	26	110	7.5	280	0	230
SEP.												
06...	1130	50	28	--	--	100	23	110	8.8	318	0	261
14...	1315	55	28	20	220	100	26	120	8.4	304	0	249
21...	1100	3.6	28	70	--	130	35	130	9.8	373	0	306
28...	0730	3.0	--	--	--	150	43	130	6.1	400	0	328
28...	1500	3.0	24	20	--	150	41	130	7.9	393	0	322

DATE	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)
OCT.											
27...	130	140	.6	8.8	--	--	--	--	--	--	--
NOV.											
15...	--	--	--	5.3	.23	--	5.5	--	--	1.2	1.9
17...	--	--	--	2.9	.24	--	--	--	--	1.6	1.6
30...	130	140	.6	9.0	--	--	--	--	--	--	--
30...	--	--	--	8.5	.29	--	8.8	--	4.6	4.6	.40
DEC.											
14...	150	150	.4	10	--	--	--	--	--	--	--
30...	140	140	.6	8.6	--	--	--	--	--	--	--
FEB.											
01...	180	170	.7	8.6	--	--	--	--	--	--	--
09...	--	--	--	3.5	.20	--	3.7	--	3.9	--	.70
12...	--	--	--	.13	.04	--	.17	--	4.6	4.6	.60
MAR.											
01...	75	84	.9	--	--	--	--	--	--	--	--
APR.											
12...	90	110	.6	--	--	--	--	--	--	--	--
27...	98	120	.6	--	--	--	--	--	--	--	--
MAY											
24...	150	140	.5	5.6	--	--	--	--	--	--	--
JUNE											
07...	130	140	.6	4.5	--	--	--	--	--	--	--
29...	130	140	.5	7.9	--	--	--	--	--	--	--
JULY											
06...	140	140	.9	--	--	--	5.0	--	--	--	--
11...	130	140	1.0	--	--	4.7	4.7	--	2.9	--	1.1
19...	140	130	.8	--	--	4.9	4.9	--	2.3	--	.30
26...	130	130	.5	7.7	--	--	--	--	--	--	--
27...	130	130	.9	--	--	4.8	5.5	--	4.3	--	.20
AUG.											
03...	140	130	.8	--	--	4.8	4.5	--	2.6	--	2.7
09...	--	--	--	4.9	.26	5.6	5.2	3.5	1.9	--	--
17...	130	130	--	--	--	--	4.5	--	3.2	--	--
24...	130	130	.6	--	--	5.6	4.8	--	.07	--	.64
28...	160	130	.7	--	--	4.6	5.2	--	2.8	--	.30
29...	140	130	.5	7.0	--	--	--	--	--	--	--
SEP.											
06...	130	130	.9	--	--	--	5.0	--	--	--	--
14...	140	150	.8	--	--	6.6	4.8	--	2.2	--	--
21...	190	170	.7	--	--	6.8	6.7	--	.62	--	.35
28...	230	170	.8	--	--	--	--	--	--	--	--
28...	220	170	.5	--	--	5.0	4.9	--	.33	--	.63

## 11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973												
	TOTAL NITRO- GEN IN BOTTOM DEPOS- ITS (N) (MG/KG)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM DE- POSITS (MG/KG)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)		
OCT.												
27...	--	--	--	--	--	--	744	1.01	360	110		
NOV.												
15...	--	3.1	--	2.3	1.4	--	--	--	--	--		
17...	--	--	--	2.0	1.3	--	--	--	--	--		
30...	--	--	--	--	--	--	720	.98	360	110		
30...	--	5.0	--	3.4	3.2	--	--	--	--	--		
DEC.												
14...	--	--	--	--	--	--	824	1.12	385	130		
30...	--	--	--	--	--	--	745	1.01	370	110		
FEB.												
01...	--	--	--	--	--	--	896	1.22	440	160		
09...	--	4.6	--	1.9	1.3	--	--	--	--	--		
12...	--	5.2	--	2.2	.79	--	--	--	--	--		
MAR.												
01...	--	--	--	--	--	--	495	.67	240	27		
APR.												
12...	--	--	--	--	--	--	593	.81	300	54		
27...	--	--	--	--	--	--	639	.87	310	47		
MAY												
24...	--	--	--	--	--	--	828	1.13	420	92		
JUNE												
07...	--	--	--	--	--	--	715	.97	360	82		
29...	--	--	--	--	--	--	746	1.01	350	110		
JULY												
06...	--	--	--	--	--	--	--	1.00	350	83		
11...	--	4.0	8.7	--	2.4	--	757	1.03	350	80		
19...	--	2.6	7.5	2.9	2.5	--	--	.95	340	120		
26...	--	--	--	--	--	--	683	.93	330	100		
27...	--	4.5	9.3	--	2.1	--	754	1.03	340	84		
AUG.												
03...	--	5.3	10	3.0	2.3	--	--	.98	340	88		
09...	130	.88	6.5	3.1	2.5	160	--	--	--	--		
17...	--	--	--	3.0	2.2	--	742	.96	346	88		
24...	--	.71	6.3	1.8	2.0	--	--	.93	340	130		
28...	--	3.1	7.7	2.3	.09	--	--	.99	340	90		
29...	--	--	--	--	2.3	--	683	.93	340	110		
SEP.												
06...	--	--	--	--	--	--	--	.97	340	84		
14...	--	.90	7.5	2.9	2.4	--	--	1.02	360	110		
21...	--	.97	7.8	.92	.87	--	--	1.24	470	160		
28...	--	--	--	--	.41	--	969	1.32	540	210		
28...	--	.96	6.0	.14	.44	--	--	1.31	540	220		
DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MA- TERIAL (C) (G/KG)	CYANIDE (CN) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT.												
27...	41	2.8	1240	7.7	15.5	30	7.2	--	--	--	--	.6
NOV.												
15...	--	--	1218	--	12.0	--	--	--	23	--	--	--
17...	--	--	--	--	--	--	--	--	23	--	--	--
30...	41	2.7	1200	7.7	14.5	25	8.1	--	--	--	--	.5
30...	--	--	1220	--	14.2	--	--	--	13	--	--	--
DEC.												
14...	39	2.6	1263	--	--	--	--	--	--	--	--	--
30...	41	2.7	1200	7.7	9.5	30	10.2	--	--	--	--	.8
FEB.												
01...	40	2.9	1350	7.7	12.0	65	8.0	--	--	--	--	.5
09...	--	--	830	--	13.7	--	--	--	17	--	--	--
12...	--	--	--	--	12.0	--	--	--	34	--	--	--
MAR.												
01...	36	1.9	740	7.2	11.0	20	6.9	--	--	--	--	.2
APR.												
12...	39	2.4	900	7.4	16.0	5	6.7	--	--	--	--	.3
27...	40	2.5	975	7.6	15.5	5	7.5	--	--	--	--	.2
MAY												
24...	39	2.8	1420	7.6	16.0	25	6.5	--	--	--	--	.3
JUNE												
07...	39	2.5	1153	--	--	--	--	--	--	--	--	--
29...	40	2.5	1130	7.8	19.5	30	7.4	--	--	--	--	32
JULY												
06...	40	2.6	1180	7.9	24.0	--	--	52	--	--	--	--
11...	40	2.6	1170	7.9	24.5	--	--	34	10	--	--	--
19...	40	2.6	1140	7.6	24.0	--	--	27	19	--	--	--
26...	41	2.6	1050	7.8	25.5	40	7.2	--	--	--	--	--
27...	40	2.6	1110	7.8	25.0	--	--	25	14	--	--	--
AUG.												
03...	40	2.6	1140	8.2	24.0	--	--	24	11	--	--	--
09...	--	--	1170	--	--	--	--	--	8.0	.1	--	--
17...	40	2.6	1110	7.8	--	--	--	34	12	--	.04	.3
24...	41	2.6	1150	8.0	--	--	--	22	10	--	--	--
28...	41	2.6	1140	7.6	--	--	--	22	20	--	--	--
29...	40	2.6	1080	7.8	17.0	30	8.0	--	--	--	--	.4
SEP.												
06...	40	2.6	1163	8.1	18.5	--	--	24	8.0	--	--	--
14...	42	2.8	1130	7.9	20.1	--	--	18	12	--	.01	.2
21...	37	2.6	1440	7.9	19.0	--	--	15	5.0	--	--	--
28...	34	2.4	1400	8.0	16.0	5	9.9	--	--	--	--	.2
28...	34	2.4	1570	8.2	--	--	--	29	6.0	--	--	--

## SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)
FEB.										
09...	1430	.00	--	.0	--	.00	--	.01	--	.02
12...	1530	.00	--	.0	--	.00	--	.03	--	.04
AUG.										
09...	1430	.00	.0	.0	0	.00	.0	.00	.0	.00
17...	1000	.00	--	.0	--	.00	--	.01	--	.00
SEP.										
14...	1315	.00	--	.0	--	.00	--	.00	--	.00

DATE	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
FEB.										
09...	--	.08	.01	--	.00	--	.00	--	.00	--
12...	--	.05	.00	--	.00	--	.00	--	.00	--
AUG.										
09...	.0	.01	.01	.0	.00	.0	.00	.0	.00	.0
17...	--	.04	.01	--	.00	--	.00	--	.00	--
SEP.										
14...	--	.03	.00	--	.00	--	.00	--	.00	--

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
FEB.										
09...	.01	--	.00	.00	.00	.0	--	.07	.00	.00
12...	.01	--	.00	.00	.00	.0	--	.16	.01	.00
AUG.										
09...	.02	.0	.00	.00	.00	.0	0	.00	.00	.00
17...	.00	--	.00	.00	.00	.0	--	.06	.00	.00
SEP.										
14...	.00	--	.00	.00	.00	.0	--	.12	.00	.00

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDE D ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE- POSITS (UG/G)	TOTAL BARIUM (BA) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE D CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)
NOV.												
15...	1400	3	--	1	--	--	--	1	--	4	--	0
30...	1420	10	--	2	--	--	--	3	--	2	--	0
FEB.												
09...	1430	20	--	12	--	--	--	<10	--	1	--	20
12...	1530	4	--	4	--	--	--	50	--	1	--	0
AUG.												
09...	1430	6	2	4	0	--	--	30	0	30	0	20
17...	1000	2	--	--	--	0	510	10	--	--	--	10
SEP.												
14...	1315	19	--	--	--	0	510	10	--	--	--	20

DATE	SUS- PENDE D CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS- PENDE D COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE- POSITS (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS- PENDE D COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	TOTAL LEAD (PB) (UG/L)
NOV.												
15...	--	--	0	6	--	2	--	60	--	40	--	40
30...	--	--	0	2	--	2	--	50	--	10	--	8
FEB.												
09...	--	--	0	<20	--	2	--	20	--	10	--	<100
12...	--	--	0	80	--	2	--	110	--	14	--	200
AUG.												
09...	20	5	0	<25	23	2	2	40	33	7	3	150
17...	--	--	--	25	--	--	--	10	--	--	--	<50
SEP.												
14...	--	--	--	<25	--	--	--	10	--	--	--	<50

## 11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

## ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SUS- PENDE D LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE- POSIT (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE D MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE- POSIT (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE- POSIT (UG/G)
NOV. 15...	--	40	--	.9	--	--	--	--	--	120	90	--
30...	--	4	--	.2	--	1.6	--	--	--	80	50	--
FEB. 09...	--	5	--	1.1	--	.5	--	--	--	100	30	--
12...	--	3	--	.5	--	.1	--	--	--	160	30	--
AUG. 09...	150	4	<5	.6	.5	.1	.0	--	--	1200	100	19
17...	--	--	--	.2	--	--	--	4	<10	70	--	--
SEP. 14...	--	--	--	.0	--	--	--	14	<10	80	--	--

## SPECIFIC CONDUCTANCE (MICROMHOS/CM at 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1220	1180	1200	1230	1190	1210	1260	1220	1230	1250	1100	1160
2	1220	1160	1190	1220	1160	1210	1260	1230	1240	1220	1080	1200
3	1230	1140	1180	1230	1170	1210	1290	1230	1250	1230	1180	1200
4	1220	1170	1200	1240	1190	1210	1320	478	1100	1330	1150	1250
5	1180	1020	1120	1270	1220	1240	676	500	614	1360	1250	1330
6	1170	1080	1110	1280	1170	1240	823	603	707	1260	1210	1240
7	1260	1130	1210	1220	1130	1180	1040	801	945	1230	1210	1220
8	1260	1150	1230	1230	1130	1180	1020	934	960	1200	1140	1180
9	1250	1120	1200	---	---	---	1020	937	992	1200	1110	1140
10	1230	1100	1190	1270	1160	1230	1230	1010	1110	1150	1060	1110
11	1220	1150	1190	1420	1200	1300	1500	1240	1340	1200	1100	1160
12	1220	1140	1170	1250	1100	1190	1650	1310	1410	1180	1120	1160
13	1220	1170	1190	1240	1170	1200	1310	1190	1280	1220	1170	1200
14	1230	1140	1210	1380	1080	1310	1270	1140	1200	1250	1210	1230
15	1230	1180	1200	1230	950	1050	1260	1230	1250	1260	1220	1240
16	1220	1180	1190	1390	998	1140	1250	1220	1240	1250	1160	1220
17	1220	1180	1200	1390	952	1130	1250	1210	1230	1150	491	669
18	1260	1180	1240	928	882	900	1200	1120	1160	594	422	486
19	1280	1210	1250	908	892	900	1270	1140	1230	737	613	680
20	1300	1070	1210	1300	902	1050	1270	1210	1250	716	604	667
21	1270	1210	1240	1240	1120	1170	1280	1240	1260	603	545	569
22	1280	1220	1250	---	---	---	1300	1230	1270	720	552	604
23	1260	1200	1230	---	---	---	---	---	---	934	700	790
24	1240	1200	1220	---	---	---	---	---	---	1020	910	948
25	1230	1150	1210	---	---	---	---	---	---	1150	956	1050
26	1230	1150	1200	---	---	---	---	---	---	1160	1080	1110
27	1250	1170	1230	---	---	---	---	---	---	1170	1140	1150
28	1240	1200	1230	---	---	---	---	---	---	1260	1150	1210
29	1260	1150	1240	---	---	---	1260	1220	1240	1390	1190	1250
30	1230	1110	1190	---	---	---	1230	1190	1220	1380	1290	1320
31	1160	1090	1120	---	---	---	1240	1090	1180	1330	1070	1190
MONTH	1300	1020	1200	---	---	---	1650	478	1160	1390	422	1060

## SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1520	1200	1350	846	752	795	957	905	926	1090	1060	1070
2	1300	1250	1280	876	794	822	939	890	910	1100	1080	1090
3	1260	1130	1240	898	822	854	896	820	880	1120	1080	1100
4	1210	811	1040	918	846	886	972	868	917	1120	1100	1110
5	1250	1190	1220	934	848	899	941	903	924	1120	1090	1110
6	1170	554	827	942	870	903	1020	959	985	1130	1110	1120
7	626	526	573	928	870	893	1000	974	986	1170	1110	1130
8	773	525	630	934	872	901	1020	929	971	1170	1130	1150
9	890	702	794	965	923	940	993	935	959	1140	1110	1120
10	985	845	913	968	920	949	994	938	963	1140	1110	1120
11	1110	688	940	972	926	951	969	941	959	1150	1120	1130
12	819	413	558	941	911	923	1010	966	984	1150	1120	1130
13	527	417	481	938	862	890	1020	982	994	1180	1120	1140
14	528	430	484	883	797	850	1020	988	1000	1190	1120	1150
15	531	463	497	855	809	837	1010	982	999	1180	1120	1140
16	502	456	477	878	822	844	1000	980	993	1210	1140	1170
17	520	490	500	874	820	842	1010	973	991	1210	1160	1180
18	510	481	497	840	792	820	1030	1000	1020	1230	1170	1190
19	516	498	508	858	792	826	1030	999	1010	1240	1180	1200
20	542	516	528	846	790	814	1030	1000	1020	1260	1200	1220
21	549	535	549	850	796	828	1020	1010	1020	1260	1200	1220
22	633	581	614	868	812	834	1020	1000	1010	1280	1200	1240
23	691	621	645	866	830	852	1020	998	1010	1330	1220	1280
24	717	655	682	905	853	880	1020	1010	1010	1420	1330	1360
25	755	701	727	917	877	902	1020	1000	1010	1320	1210	1250
26	786	718	755	938	826	862	1040	1010	1020	1240	1180	1220
27	794	746	777	852	826	838	1050	1020	1030	1250	1140	1190
28	834	768	802	873	821	845	1050	1040	1040	1230	1150	1190
29	---	---	---	869	571	744	1070	1050	1060	1250	1160	1190
30	---	---	---	916	598	832	1070	1060	1060	1230	1100	1180
31	---	---	---	928	892	915	---	---	---	1240	1160	1200
MONTH	1520	413	746	972	571	864	1070	820	989	1420	1060	1170

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1230	1060	1170	1260	1130	1190	1160	946	1030	---	---	---
2	1170	1050	1100	1220	1150	1180	1160	902	1050	---	---	---
3	1220	1050	1110	1230	1160	1200	1140	1050	1100	---	---	---
4	1210	1030	1140	1340	1100	1170	1120	1060	1110	---	---	---
5	1230	1060	1150	1170	1090	1130	1150	1050	1110	---	---	---
6	1220	1090	1160	1210	1130	1170	1110	1010	1060	---	---	---
7	1250	1120	1190	1180	1130	1150	1110	996	1060	---	---	---
8	1300	1110	1220	1200	1080	1140	1090	1000	1040	---	---	---
9	1260	1170	1210	1140	1080	1100	---	---	---	---	---	---
10	1240	1160	1200	---	---	---	1120	1030	1070	---	---	---
11	1220	1170	1190	---	---	---	1120	1020	1070	---	---	---
12	1210	1120	1170	1180	1160	1170	1080	998	1030	1110	1060	1080
13	1250	1120	1170	1210	1140	1180	---	---	---	1100	1040	1080
14	1230	1130	1160	1200	1140	1160	---	---	---	1110	1060	1080
15	1240	1150	1210	1190	1160	1170	---	---	---	---	---	---
16	1220	1170	1190	1190	1150	1170	---	---	---	---	---	---
17	1190	1170	1180	1180	1140	1160	1140	1020	1080	---	---	---
18	1210	1110	1180	1160	1130	1140	---	---	---	---	---	---
19	1220	1180	1190	1150	1120	1130	---	---	---	---	---	---
20	1240	1190	1210	1130	1090	1110	---	---	---	---	---	---
21	1240	1200	1210	1120	1080	1100	---	---	---	---	---	---
22	1240	1170	1210	1090	1070	1080	---	---	---	---	---	---
23	1210	1090	1150	1100	1060	1080	---	---	---	---	---	---
24	1190	1100	1150	1100	1080	1080	---	---	---	---	---	---
25	1260	1100	1170	1100	1060	1080	---	---	---	---	---	---
26	1250	1120	1180	1100	1040	1070	---	---	---	---	---	---
27	1270	1130	1170	1120	1040	1080	---	---	---	---	---	---
28	1250	1130	1170	1190	1060	1090	---	---	---	---	---	---
29	1230	1140	1180	1130	1020	1070	---	---	---	---	---	---
30	1220	1120	1170	---	---	---	---	---	---	---	---	---
31	---	---	---	1140	946	1040	---	---	---	---	---	---
MONTH	1300	1030	1180	1340	946	1130	---	---	---	---	---	---



11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	17.5	14.5	11.0	15.5	10.0	10.0	6.5	15.0	10.0	---	---
2	21.5	17.5	16.0	11.5	14.5	9.5	12.0	6.0	14.5	9.5	13.0	12.5
3	21.0	16.5	16.5	12.0	14.5	12.0	12.0	9.0	14.5	12.0	13.5	13.0
4	22.0	17.0	15.5	13.0	14.0	11.5	11.5	8.5	15.0	11.5	13.0	12.0
5	22.0	17.0	18.0	14.0	11.5	10.0	11.5	5.5	16.0	10.0	13.0	12.0
6	23.5	19.5	16.5	13.0	---	---	10.0	5.0	14.5	13.0	12.0	11.0
7	22.5	18.0	16.0	14.5	---	---	10.5	5.0	13.5	13.0	---	---
8	20.5	18.5	17.5	14.5	---	---	11.5	6.5	13.5	13.0	---	---
9	20.0	18.0	15.5	12.0	---	---	13.5	10.5	14.0	13.0	---	---
10	19.0	16.0	14.5	12.0	---	---	14.5	11.5	13.5	13.0	---	---
11	20.0	14.5	15.5	13.5	8.5	7.5	15.0	10.5	13.5	12.5	---	---
12	18.5	16.0	14.5	11.5	11.0	6.0	15.5	10.0	12.5	11.5	---	---
13	19.5	14.5	14.5	12.5	12.0	8.5	17.0	10.5	12.0	11.5	---	---
14	18.0	13.5	14.0	13.0	11.5	6.0	17.0	11.0	12.0	11.0	---	---
15	19.0	14.5	13.0	11.5	11.5	6.5	16.0	12.5	11.5	11.0	---	---
16	18.5	14.5	13.5	13.0	13.5	8.0	14.0	13.0	12.0	11.0	---	---
17	18.0	15.5	13.5	11.0	13.5	9.5	13.0	11.5	12.5	11.5	---	---
18	17.0	16.0	---	---	15.5	10.0	12.0	11.0	12.0	11.5	---	---
19	18.5	15.0	14.5	11.5	15.0	10.0	12.0	11.5	13.0	11.5	---	---
20	16.0	14.5	14.0	11.5	16.0	11.5	11.5	10.5	12.5	11.5	---	---
21	17.5	14.0	13.5	11.5	16.0	11.0	10.5	10.0	12.0	12.0	---	---
22	18.5	15.5	14.5	12.0	15.5	10.5	10.0	9.5	12.0	11.5	---	---
23	18.5	15.5	16.0	12.0	---	---	9.5	8.5	12.0	11.5	---	---
24	19.5	16.0	---	---	---	---	9.5	8.5	12.0	11.5	---	---
25	18.5	15.0	15.0	10.0	---	---	9.5	8.5	12.5	12.0	---	---
26	16.5	14.0	17.0	11.0	---	---	10.0	9.0	12.5	12.0	---	---
27	17.0	15.0	18.0	11.0	---	---	11.0	9.5	12.5	12.0	---	---
28	17.5	14.0	16.5	11.5	---	---	11.0	9.5	13.0	12.5	14.5	14.0
29	17.0	14.0	16.5	12.0	12.5	9.0	11.5	10.0	---	---	14.5	14.0
30	14.0	11.5	15.5	10.0	12.5	6.5	11.0	10.0	---	---	15.0	14.0
31	14.0	10.0	---	---	11.0	6.0	12.5	10.0	---	---	15.0	14.0
MONTH	23.5	10.0	18.0	10.0	---	---	17.0	5.0	16.0	9.5	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	26.0	20.0	22.0	16.5
2	---	---	---	---	---	---	---	---	27.0	19.5	22.5	16.5
3	---	---	---	---	---	---	---	---	25.0	19.0	23.0	18.0
4	---	---	---	---	---	---	---	---	21.0	17.0	21.5	18.0
5	---	---	---	---	---	---	---	---	21.5	17.0	23.5	18.5
6	---	---	---	---	---	---	---	---	21.5	17.0	23.0	16.5
7	---	---	---	---	---	---	---	---	22.0	16.5	23.5	16.5
8	---	---	---	---	---	---	---	---	22.5	16.5	23.5	19.0
9	---	---	---	---	---	---	---	---	23.5	16.5	23.5	19.5
10	---	---	---	---	---	---	---	---	25.0	17.5	21.5	19.5
11	---	---	---	---	---	---	---	---	25.5	19.5	23.5	19.5
12	---	---	---	---	---	---	25.5	20.5	26.0	20.5	25.0	18.0
13	---	---	---	---	---	---	24.5	20.0	26.5	21.0	25.0	21.5
14	---	---	---	---	---	---	25.0	19.5	28.0	22.5	23.0	20.0
15	---	---	---	---	---	---	24.5	19.0	29.5	23.5	---	---
16	---	---	---	---	---	---	25.5	18.5	29.0	23.0	---	---
17	---	---	---	---	---	---	25.5	18.5	29.5	23.5	---	---
18	---	---	---	---	---	---	26.0	19.5	30.0	24.0	---	---
19	---	---	---	---	---	---	26.5	20.0	29.0	22.5	---	---
20	---	---	---	---	---	---	26.0	20.5	27.0	23.5	---	---
21	---	---	---	---	---	---	26.5	19.0	29.5	23.0	---	---
22	---	---	---	---	---	---	26.0	20.0	28.0	21.5	---	---
23	---	---	---	---	---	---	26.5	19.5	28.0	20.0	---	---
24	---	---	---	---	---	---	27.5	19.5	27.0	20.5	---	---
25	---	---	---	---	---	---	27.5	20.5	25.5	20.5	---	---
26	---	---	---	---	---	---	27.5	20.5	25.5	21.0	---	---
27	---	---	---	---	---	---	26.5	20.5	26.0	21.0	---	---
28	---	---	---	---	---	---	26.0	19.5	23.0	18.0	---	---
29	---	---	---	---	---	---	26.5	20.0	22.0	15.5	---	---
30	---	---	---	---	---	---	27.0	20.0	21.0	15.5	---	---
31	---	---	---	---	---	---	27.5	20.5	24.0	15.5	---	---
MONTH	---	---	---	---	---	---	---	---	30.0	15.5	---	---

## SANTA ANA RIVER BASIN

11075600 SANTA ANA RIVER AT IMPERIAL HIGHWAY, NEAR ANAHEIM, CALIF.

LOCATION.--Lat 33°51'23", long 117°47'23", in Canon De Santa Ana, Orange County, at highway bridge, 500 ft north of State Highway 91, and 0.4 mile south of Orangethorpe Road.

**DRAINAGE AREA.**--1,543 sq mi (excludes 768 sq mi above Lake Elsinore).

PERIOD OF RECORD.--Water temperatures: October 1972 to September 1973.  
Sediment records: October 1972 to September 1973.

**EXTREMES, --1972-73:**

Sediment concentrations: Maximum daily, 6,870 mg/l Feb. 11; minimum daily, 20 mg/l for several days during September.

Sediment discharge: Maximum daily, 5,140 tons Mar. 27; minimum daily, 0.01 ton Sept. 20-24.

**REMARKS.**--Records of discharge furnished by Orange County Flood Control District.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

[illegible]

11075600 SANTA ANA RIVER AT IMPERIAL HIGHWAY, NEAR ANAHEIM, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	23	105	6.5	46	100	12	63	85	14
2	24	110	7.1	50	110	15	63	85	14
3	27	120	8.7	53	115	16	71	90	17
4	31	130	11	52	110	15	133	3060	1830
5	30	130	11	47	105	13	148	850	340
6	27	120	8.7	44	95	11	192	690	358
7	20	95	5.1	46	100	12	184	550	273
8	22	100	5.9	47	105	13	207	820	458
9	25	115	7.8	50	110	15	200	800	432
10	24	110	7.1	52	115	16	194	780	409
11	23	105	6.5	71	160	31	172	750	348
12	23	105	6.5	129	950	331	100	560	151
13	25	115	7.8	96	380	98	6.0	95	1.5
14	22	100	5.9	85	1580	517	5.0	80	1.1
15	20	100	5.4	97	300	79	19	55	2.8
16	20	95	5.1	198	3290	2080	19	50	2.6
17	25	115	7.8	168	440	200	32	80	6.9
18	23	105	6.5	234	320	202	44	125	15
19	24	110	7.1	244	250	165	50	160	22
20	35	145	14	242	150	98	57	190	29
21	47	180	23	222	170	102	63	230	39
22	44	160	19	126	125	43	71	280	54
23	40	140	15	105	115	33	82	330	73
24	38	120	12	100	110	30	82	320	71
25	38	110	11	80	100	22	80	310	67
26	38	100	10	75	95	19	71	260	50
27	44	105	12	73	90	18	80	340	73
28	48	105	14	73	85	17	80	330	71
29	47	105	13	57	80	12	75	300	61
30	40	90	9.7	59	80	13	80	340	73
31	42	95	11	--	--	--	82	350	77
TOTAL	959	--	301.2	3021	--	4248	2805.0	--	5433.9

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	80	390	84	172	400	186	204	800	441
2	77	350	73	112	230	70	204	750	413
3	82	440	97	97	180	47	212	1000	572
4	84	450	102	145	350	137	212	850	487
5	73	440	87	133	325	117	212	700	401
6	73	430	85	181	3770	2120	190	500	257
7	84	490	111	217	2190	1280	200	430	232
8	84	480	109	184	1500	745	254	2900	1990
9	100	540	146	180	1300	632	217	1100	644
10	117	340	107	184	1400	696	184	600	298
11	121	380	124	269	6870	4270	174	1100	517
12	100	250	68	229	1800	1110	167	900	406
13	91	220	54	229	1600	989	170	750	344
14	82	180	40	229	1410	872	174	600	282
15	80	170	37	217	1450	850	174	450	211
16	126	1300	716	180	1480	719	172	280	130
17	182	1820	897	184	1400	696	177	350	167
18	212	1860	1060	184	1350	671	177	350	167
19	229	2120	1310	197	1200	638	174	340	160
20	234	2440	1540	202	1100	600	215	3500	2400
21	200	1600	864	204	1050	578	182	530	260
22	200	1200	648	209	1000	564	192	800	415
23	192	900	467	209	800	451	184	520	258
24	215	600	348	207	600	335	170	300	138
25	215	500	290	202	450	245	157	200	85
26	212	380	218	202	600	327	233	1540	1380
27	210	400	227	202	700	382	577	3300	5140
28	210	500	284	214	1050	607	577	2800	4360
29	205	600	332	--	--	--	547	1350	1990
30	200	700	378	--	--	--	583	2750	4330
31	155	350	146	--	--	--	467	1700	2140
TOTAL	4525	--	11049	5374	--	20934	7732	--	31015

## SANTA ANA RIVER BASIN

11075600 SANTA ANA RIVER AT IMPERIAL HIGHWAY, NEAR ANAHEIM, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	310	700	586	153	110	45	67	145	26
2	222	350	210	150	105	43	71	150	29
3	155	120	50	150	100	41	69	140	26
4	145	110	43	153	100	41	69	135	25
5	141	100	38	150	90	36	63	130	22
6	145	110	43	153	85	35	57	120	18
7	148	115	46	153	80	33	53	110	16
8	150	120	49	155	75	31	46	90	11
9	157	120	51	155	70	29	42	70	7.9
10	167	180	81	155	60	25	44	75	8.9
11	170	200	92	155	55	23	44	70	8.3
12	172	210	98	157	55	23	50	80	11
13	170	200	92	157	60	25	48	75	9.7
14	170	190	87	157	60	25	50	70	9.5
15	167	180	81	160	65	28	50	65	8.8
16	165	170	76	153	60	25	44	60	7.1
17	167	180	81	153	55	23	46	55	6.8
18	167	190	86	153	60	25	47	50	6.3
19	167	200	90	155	55	23	47	45	5.7
20	162	180	79	160	60	26	47	45	5.7
21	160	160	69	157	55	23	42	45	5.1
22	160	140	60	153	55	23	42	40	4.5
23	157	120	51	131	50	18	42	40	4.5
24	157	110	47	136	55	20	47	45	5.7
25	153	100	41	109	50	15	46	45	5.6
26	155	110	46	95	45	12	44	40	4.8
27	157	115	49	91	45	11	46	45	5.6
28	157	110	47	88	40	9.5	47	50	6.3
29	157	110	47	77	40	8.3	44	50	5.9
30	160	115	50	63	40	6.8	44	45	5.3
31	--	--	--	73	160	32	--	--	--
TOTAL	4990	--	2566	4260	--	783.6	1498	--	322.0

DAY	JULY			AUGUST			SEPTEMBER		
	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	44	45	5.3	21	35	2.0	31	160	13
2	40	40	4.3	25	30	2.0	30	140	11
3	38	40	4.1	28	25	1.9	25	130	8.8
4	32	35	3.0	35	40	3.8	25	120	8.1
5	37	150	15	35	60	5.7	32	110	9.5
6	41	300	33	34	80	7.3	31	100	8.4
7	47	350	44	30	110	8.9	30	90	7.3
8	46	320	40	24	140	9.1	30	80	6.5
9	44	290	34	21	160	9.1	31	70	5.9
10	47	270	34	24	180	12	27	60	4.4
11	44	250	30	31	190	16	23	50	3.1
12	46	230	29	30	200	16	30	40	3.2
13	47	210	27	24	210	14	32	35	3.0
14	47	190	24	25	220	15	37	35	3.5
15	47	160	20	32	230	20	41	40	4.4
16	44	130	15	31	240	20	34	35	3.2
17	42	100	11	31	250	21	25	30	2.0
18	38	80	8.2	31	240	20	3.0	30	2.4
19	48	105	14	31	230	19	3.0	25	2.02
20	32	70	6.0	28	220	17	2.0	25	2.01
21	40	90	9.7	32	280	24	1.10	20	2.01
22	41	100	11	30	270	22	1.15	20	2.01
23	31	70	5.9	28	260	20	2.0	20	2.01
24	28	50	3.8	30	270	22	2.25	20	2.01
25	29	60	4.7	31	270	23	3.0	20	2.02
26	31	70	5.9	32	280	24	3.35	20	2.02
27	32	80	6.9	28	260	20	4.0	25	2.03
28	30	70	5.7	30	240	19	4.45	25	2.03
29	28	60	4.5	25	220	15	5.0	25	2.03
30	26	50	3.5	24	200	13	5.5	30	2.04
31	25	40	2.7	28	180	14	--	--	--
TOTAL	1192	--	465.2	889	--	455.8	520.75	--	105.78

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

37765.75  
77679.48

## SANTA ANA RIVER BASIN

139

11075600 SANTA ANA RIVER AT IMPERIAL HIGHWAY, NEAR ANAHEIM, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SED- IMENT (MG/L)	SUS- PENDE SED- IMENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
14...	1550	13.0	107	4100	1180	58	69	86	95	96
16...	1025	12.5	249	4580	3080	55	69	83	95	97
17...	0945	12.5	170	461	212	36	45	53	59	63
DEC.										
04...	1350	13.0	247	13600	9070	47	51	69	83	92
JAN.										
18...	2030	12.0	227	6840	4190	36	42	53	65	75
FEB.										
06...	0845	13.0	167	1990	897	35	41	49	63	73
06...	1245	13.0	254	21300	14600	40	49	57	73	87
11...	1100	12.5	305	11500	9470	37	45	54	65	73
MAR.										
08...	1230	13.5	257	3200	2220	27	27	39	46	56
JULY										
06...	0920	20.5	42	345	39	55	73	88	97	99
19...	0925	21.5	52	105	15	--	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.									
14...	93	--	98	--	100	--	--	--	--
16...	--	98	--	99	--	99	--	100	--
17...	71	--	81	--	93	--	99	--	100
DEC.									
04...	98	--	100	--	--	--	--	--	--
JAN.									
18...	81	--	91	--	97	--	100	--	--
FEB.									
06...	80	--	88	--	95	--	99	--	100
06...	92	--	99	--	100	--	--	--	--
11...	77	--	89	--	99	--	100	--	--
MAR.									
08...	66	--	91	--	97	--	100	--	--
JULY									
06...	--	99	--	99	--	100	--	--	--
19...	--	93	--	97	--	100	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	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	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
MAR.											
16...	1340	17.5	3	180	3	27	58	82	93	98	100



## SANTA ANA RIVER BASIN

141

11078000 SANTA ANA RIVER AT SANTA ANA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	106	780	633
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	7.4	115	4.2
8	0	0	0	0	0	0	30	180	28
9	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
11	0	0	0	3.5	185	7.4	0	0	0
12	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0
14	0	0	0	118	730	1470	0	0	0
15	0	0	0	0	0	0	0	0	0
16	0	0	0	201	1200	1020	0	0	0
17	0	0	0	41	500	152	0	0	0
18	0	0	0	0	0	0	0	0	0
19	1.5	135	2.8	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0
31	0	0	0	--	--	--	0	0	0
TOTAL	1.5	--	2.8	363.5	--	2649.4	143.4	--	665.2
DAY	JANUARY			FEBRUARY			MARCH		
	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	0	0	0	0	0	0	72	575	128
2	0	0	0	0	0	0	58	250	39
3	0	0	0	22	170	26	76	600	123
4	0	0	0	4.1	130	1.4	76	450	92
5	0	0	0	1.3	50	.18	55	300	45
6	0	0	0	135	680	289	70	400	112
7	0	0	0	60	390	78	34	430	69
8	0	0	0	32	220	19	134	1390	849
9	14	150	20	4.0	80	.86	148	1100	440
10	4.9	85	6.0	4.2	60	.68	79	520	111
11	0	0	0	580	3020	10700	119	920	312
12	0	0	0	314	2060	1460	119	1090	418
13	0	0	0	256	1740	1910	36	200	19
14	0	0	0	46	800	99	26	150	11
15	0	0	0	9.5	160	9.1	26	210	15
16	236	1490	3360	2.1	50	.28	29	270	21
17	15	550	73	4.3	100	1.2	27	230	17
18	123	795	1390	5.0	80	1.1	25	190	13
19	19	210	42	7.3	90	1.8	22	150	8.9
20	0	0	0	22	280	29	299	2160	3770
21	17	180	8.3	28	350	26	135	860	521
22	.62	80	.13	22	250	15	181	850	536
23	0	0	0	17	130	6.0	76	300	62
24	0	0	0	6.4	60	1.0	145	635	419
25	0	0	0	0	0	0	50	200	27
26	0	0	0	5.2	80	1.1	16	60	2.6
27	0	0	0	8.1	130	35	330	3200	2850
28	0	0	0	146	1180	567	400	3100	3350
29	0	0	0	--	--	--	440	2400	2850
30	15	180	33	--	--	--	433	1900	2220
31	0	0	0	--	--	--	193	1200	625
TOTAL	444.52	--	4932.43	1741.5	--	15277.70	3929	--	20075.5

## SANTA ANA RIVER BASIN

11078000 SANTA ANA RIVER AT SANTA ANA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	32	550	48						
2	16	230	9.9						
3	10	100	2.7						
4	1.3	50	.18						
5	10	110	3.0						
6	.48	30	.04						
7	0	0	0						
8	0	0	0						
9	0	0	0						
10	0	0	0						
11	0	0	0						
12	0	0	0						
13	0	0	0						
14	0	0	0						
15	0	0	0						
16	5.5	25	3.9						
17	52	225	43						
18	.43	30	.03						
19	0	0	0						
20	0	0	0						
21	0	0	0						
22	0	0	0						
23	.03	20	0						
24	1.4	30	.11						
25	38	175	25						
26	2.9	50	.39						
27	.02	20	0						
28	17	155	12						
29	.18	30	.01						
30	.01	20	0						
31	--	--	--						
TOTAL	187.25	--	148.26	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)  
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

6810.67  
43751.29



## SANTA ANA RIVER BASIN

143

## 11078000 SANTA ANA RIVER AT SANTA ANA, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
NOV.								
14...	1220	13.0	1650	3970	17700	19	25	32
17...	1100	15.0	68	366	67	29	36	44
DEC.								
04...	1530	10.5	379	1740	1780	18	24	30
08...	0945	--	125	414	140	26	32	36
JAN.								
18...	2230	--	480	1840	2390	15	18	22
FEB.								
06...	1110	14.0	167	663	299	18	24	29
11...	0945	--	1930	7910	41200	22	29	32
28...	0845	13.5	121	1270	415	36	44	51
MAR.								
27...	1320	14.0	330	3430	3060	22	27	36

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.							
14...	42	53	64	74	94	100	--
17...	51	59	69	76	97	100	--
DEC.							
04...	36	43	50	60	86	90	100
08...	42	47	51	66	93	100	--
JAN.							
18...	27	32	38	53	87	99	100
FEB.							
06...	34	38	41	49	79	98	100
11...	45	57	67	76	92	99	100
28...	57	70	79	86	95	99	100
MAR.							
27...	47	66	72	84	94	99	100

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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	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
MAR.											
16...	1235	22.0	2	29	1	10	52	88	98	99	100

## SAN GABRIEL RIVER BASIN

11082800 SAN GABRIEL RIVER AT AZUSA POWERHOUSE, AT AZUSA, CALIF.

LOCATION.--Lat 34°09'18", long 117°54'26", in NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec.22, T.1 N., R.10 W., Los Angeles County, at tailrace of Azusa Powerhouse, and 1 mile north of Azusa.

PERIOD OF RECORD.--Chemical analyses: December 1907 to December 1908, October 1966 to September 1973.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Records of discharge furnished by Los Angeles County Flood Control District.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT. 26...	1335	1.4	--	--	46	14	14	3.8	196	0	161	32
DEC. 01...	1300	26	--	--	48	15	13	5.7	196	0	161	39
29...	1335	30	--	--	49	14	13	3.6	198	0	162	39
FEB. 02...	1230	50	--	--	45	14	11	3.0	175	0	144	38
27...	1400	60	--	--	32	9.6	7.6	2.7	132	0	108	15
APR. 13...	1300	76	--	--	42	11	9.3	2.7	174	0	143	20
25...	1345	80	--	--	42	12	8.5	2.8	171	0	140	24
MAY 23...	1300	75	--	--	42	13	8.1	2.8	179	0	147	23
29...	0700	74	20	0	--	--	--	--	--	--	--	--
JUNE 28...	1300	75	--	--	45	9.5	7.7	2.8	171	0	140	21
JULY 27...	1200	75	--	--	42	11	8.0	2.9	174	0	143	23
AUG. 28...	1230	74	--	--	42	11	8.8	3.1	165	0	135	24
SEP. 27...	1315	55	--	--	39	11	9.4	3.3	167	0	137	25

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
OCT. 26...	6.0	.3	.41	227	.31	173	12	15	.5	405	8.3	13.5
DEC. 01...	5.0	.3	.29	240	.33	182	21	13	.4	383	--	12.0
29...	5.0	.5	.23	231	.31	180	18	13	.4	350	8.1	9.0
FEB. 02...	5.0	.4	.72	247	.34	170	26	12	.4	325	8.1	8.0
27...	3.0	.3	1.2	159	.22	120	12	12	.3	225	7.9	10.0
APR. 13...	4.0	.2	.63	162	.22	150	7	12	.3	280	8.1	14.5
25...	4.0	.3	.99	186	.25	155	15	10	.3	240	7.9	13.5
MAY 23...	4.0	.2	.68	173	.24	159	12	10	.3	370	8.1	14.5
29...	--	--	--	--	--	--	--	--	--	--	--	16.5
JUNE 28...	4.0	.2	.50	195	.27	152	12	10	.3	290	7.8	19.5
JULY 27...	4.0	.2	.61	176	.24	150	7	10	.3	290	7.7	20.5
AUG. 28...	5.0	.3	.36	152	.21	152	17	11	.3	280	7.6	22.0
SEP. 27...	4.0	.5	.14	141	.19	143	6	12	.3	290	8.1	21.5

DATE	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CU) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)
OCT. 26...	2	11.4	--	--	70	--	--	--	--	--	--	--
DEC. 01...	1	11.7	--	--	50	--	--	--	--	--	--	--
29...	3	12.0	--	--	30	--	--	--	--	--	--	--
FEB. 02...	5	12.4	--	--	0	--	--	--	--	--	--	--
27...	25	12.2	--	--	40	--	--	--	--	--	--	--
APR. 13...	20	10.1	--	--	60	--	--	--	--	--	--	--
25...	3	9.5	--	--	0	--	--	--	--	--	--	--
MAY 23...	1	9.2	--	--	20	--	--	--	--	--	--	--
29...	--	--	0	0	--	0	0	10	20	.0	0	0
JUNE 28...	2	8.5	--	--	0	--	--	--	--	--	--	--
JULY 27...	1	7.2	--	--	0	--	--	--	--	--	--	--
AUG. 28...	3	5.6	--	--	30	--	--	--	--	--	--	--
SEP. 27...	2	8.6	--	--	10	--	--	--	--	--	--	--

## SAN GABRIEL RIVER BASIN

145

## 11087040 SAN GABRIEL RIVER AT WHITTIER NARROWS, CALIF.

LOCATION.--Lat 34°01'25", long 118°03'11", in sec.5, T.2 S., R.11 W., Los Angeles County, 200 ft from end of San Gabriel Boulevard (Siphon Road), upstream from Whittier Narrows Dam, and 2.5 miles northeast of Montebello.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1973.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Records of discharge are given for San Gabriel River above Whittier Narrows Dam (sta 11087020).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT.												
26...	0930	12	130	100	636	.86	273	1060	8.1	15.5	10	10.0
DEC.												
01...	1010	119	280	98	693	.94	330	1100	8.3	12.0	5	12.9
29...	1000	214	300	98	719	.98	330	1150	8.2	7.0	8	13.4
FEB.												
02...	1000	214	280	100	699	.95	330	1080	8.1	8.5	7	11.0
27...	0945	11	160	82	630	.86	330	1000	8.1	14.5	4	9.3
APR.												
13...	1015	94	270	99	745	1.01	330	1050	8.4	17.0	--	15.8
25...	1020	198	280	99	737	1.00	340	1050	8.3	15.5	8	14.6
MAY												
23...	1030	198	290	100	738	1.00	340	1200	8.1	15.5	3	11.1
JUNE												
28...	0915	190	290	98	747	1.02	340	1120	8.3	20.0	1	11.1
JULY												
27...	0900	238	300	98	759	1.03	330	1080	8.0	21.5	1	9.9
AUG.												
28...	0945	214	290	95	701	.95	310	1050	8.4	21.5	4	13.0
SEP.												
27...	1015	148	280	98	730	.99	320	1100	7.8	23.0	2	7.6

## LOS ANGELES RIVER BASIN

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CALIF.  
(National stream-quality accounting network station)

LOCATION.--Lat 33°48'16", long 118°12'15", in Los Cerritos Grant, Los Angeles County, on the Willow Street Bridge, 2.8 miles upstream from mouth in Long Beach.

DRAINAGE AREA.--831 sq mi.

PERIOD OF RECORD.--Chemical analyses: February to September 1973.

REMARKS.--Station is a project station and part of a national environmental assessment program.

## CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)
FEB.												
06...	1330	2130	3.8	4000	110	250	40	19	3.4	8.8	3.3	44
28...	1115	2005	6.9	--	--	--	--	24	6.0	14	.8	68
MAR.												
26...	1200	168	13	--	--	--	--	58	18	62	4.6	146
APR.												
26...	1230	26	15	280	40	110	10	94	35	140	7.0	230
JUNE												
07...	1045	32	25	--	--	--	--	94	35	160	7.9	263
JULY												
16...	1030	49	18	--	--	--	--	74	28	94	5.9	190
AUG.												
21...	1030	38	29	330	20	70	24	100	33	130	9.4	255
SEP.												
19...	1100	20	24	--	--	--	--	110	33	150	8.6	264

DATE	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO <sub>3</sub> ) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)
FEB.												
06...	0	36	32	7.9	.3	--	1.5	--	--	.74	86	100
28...	0	56	58	13	.3	.89	2.6	3.5	15	2.2	150	157
MAR.												
26...	0	120	140	57	.5	3.2	3.1	6.3	28	1.1	469	425
APR.												
26...	14	212	270	140	.6	1.4	2.1	3.5	15	.51	836	829
JUNE												
07...	0	216	260	160	.8	2.4	1.5	3.9	17	.80	896	872
JULY												
16...	14	179	200	100	.9	.60	1.8	2.4	11	.68	637	628
AUG.												
21...	0	209	250	130	.6	2.1	2.2	4.3	19	1.9	855	808
SEP.												
19...	0	217	290	150	.7	4.8	2.3	7.1	31	1.9	921	896

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	FECAL COLI- FORM (COL. PER 100 ML)
FEB.												
06...	.12	495	61	23	.5	194	7.0	16.0	100	7.0	550	--
28...	.20	812	85	26	.7	272	7.8	16.0	400	1.7	1300	22000
MAR.												
26...	.64	213	220	38	1.8	734	7.3	19.0	60	12	6000	350
APR.												
26...	1.14	58.7	380	44	3.1	1300	9.1	25.0	5	.3	840	4000
JUNE												
07...	1.22	77.4	380	47	3.6	1380	8.1	23.0	4	3.3	--	--
JULY												
16...	.87	84.3	300	40	2.4	1030	8.5	22.0	10	1.1	35000	6000
AUG.												
21...	1.16	87.7	390	42	2.9	1290	8.1	25.0	5	3.2	20000	1000
SEP.												
19...	1.25	49.7	410	44	3.2	1360	7.9	20.0	10	5.3	--	10000

## CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1973

	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL MEDIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
FEB. 06... 28...	24000 44000	16 --	8 --	4 --	10 --	3 --	40 --	20 --	50 --	1 --	110 --
MAR. 26... APR.	2700 9000	39 12	-- 5	-- 4	-- 0	-- 0	-- 20	-- 10	-- <20	-- 0	-- 40
JUNE 07... JULY	-- 400	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
AUG. 21... SEP.	100 900	17 --	17 --	14 --	<10 --	1 --	40 --	40 --	>25 --	0 --	70 --

[illegible]

## LOS ANGELES RIVER BASIN

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CALIF.--Continued

## BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

## PHYTOPLANKTON

DATE	PHYLUM .Class ..Order ...Family ....Genus .....Species	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
FEB. 06...	CHLOROPHYTA .Chlorophyceae ....Scenedesmus	Green algae	200	36
	TOTAL PHYTOPLANKTON		550	
28...	CHRYSOPHYTA .Bacillariophyceae ....Navicula	Diatoms	990	76
	TOTAL PHYTOPLANKTON		1300	
MAR. 26...	CHRYSOPHYTA .Bacillariophyceae ....Navicula	Diatoms	4300	72
	CYANOPHYTA .Myxophyceae ....Anabaena	Blue-green algae	1300	22
	TOTAL PHYTOPLANKTON		6000	
APR. 26...	CHRYSOPHYTA .Bacillariophyceae ....Navicula	Diatoms	390	47
	TOTAL PHYTOPLANKTON		840	
JULY 16...	CHLOROPHYTA .Chlorophyceae ....Scenedesmus ....Stigeoclonium	Green algae	11000 8000	31 23
	CYANOPHYTA .Myxophyceae ....Lyngbya	Blue-green algae	5600	16
	TOTAL PHYTOPLANKTON		35000	
AUG. 21...	CHLOROPHYTA .Chlorophyceae ....Pediastrum ....Scenedesmus	Green algae	8000 8400	40 42
	TOTAL PHYTOPLANKTON		20000	

1/ Records furnished by California Department of Water Resources.

CALLEGUAS CREEK BASIN

149

11105850 ARROYO SIMI NEAR SIMI, CALIF.

LOCATION.--Lat 34°16'41", long 118°47'43", on line between secs.7 and 8, T.2 N., R.18 W., Ventura County, at gaging station on bridge on Los Angeles Avenue, 0.5 mile upstream from Brea Canyon, and 1.1 miles northwest of Simi.

DRAINAGE AREA.--70.6 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1971.

Sediment records: October 1968 to September 1971, October 1972 to September 1973.

EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 13,500 mg/l Feb. 11; minimum daily, 6 mg/l July 30 to Aug. 3.

Sediment discharge: Maximum daily, 44,500 tons Feb. 11; minimum daily, 0 tons on many days.

Period of record:

Sediment concentrations: Maximum daily, 29,000 mg/l Nov. 29, 1970; minimum daily, no flow for many days during most years.

Sediment discharge: Maximum daily, 169,000 tons Feb. 25, 1969; minimum daily, 0 tons on many days each year.

REMARKS.--High sediment concentrations in late August due to channel work.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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	.05	20	0	.05	15	0	.16	80	.03
2	.05	20	0	.05	15	0	.16	60	.03
3	.05	20	0	.05	15	0	.16	50	.02
4	.05	20	0	.28	15	.01	48	1680	525
5	.05	20	0	.05	15	0	.55	250	.37
6	.05	20	0	.05	15	0	.28	150	.11
7	.05	20	0	.05	15	0	2.9	350	6.5
8	.05	20	0	.05	15	0	1.5	100	.41
9	.05	20	0	.05	15	0	.16	70	.03
10	.05	20	0	.05	15	0	.05	60	.01
11	.05	20	0	9.6	1260	123	.05	55	.01
12	.05	20	0	1.0	250	.68	.05	55	.01
13	.05	20	0	1.0	150	.41	.05	50	.01
14	.05	20	0	94	1960	1550	.05	50	.01
15	.05	20	0	1.5	700	2.8	.05	50	.01
16	.05	20	0	29	2570	510	.05	45	.01
17	.05	20	0	16	1790	225	.05	45	.01
18	.05	20	0	.05	100	.01	.05	45	.01
19	.05	20	0	.05	50	.01	.05	45	.01
20	.05	20	0	.05	50	.01	.05	45	.01
21	.05	20	0	.05	50	.01	.05	45	.01
22	.05	20	0	.05	45	.01	.05	40	.01
23	.05	20	0	.05	45	.01	.05	40	.01
24	.05	20	0	.05	45	.01	.05	40	.01
25	.05	15	0	.05	45	.01	.05	40	.01
26	.05	15	0	.05	40	.01	.05	40	.01
27	.05	15	0	.05	40	.01	.05	35	0
28	.05	15	0	.05	40	.01	.05	35	0
29	.05	15	0	.05	40	.01	.05	35	0
30	.05	15	0	.05	40	.01	.05	35	0
31	.05	15	0	--	--	--	.05	35	0
TOTAL	1.55	--	0	153.48	--	2412.03	54.97	--	532.67

## CALLEGUAS CREEK BASIN

11105850 ARROYO SIMI NEAR SIMI, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.05	35	0	.16	80	.03	.33	500	.45
2	.05	30	0	.05	60	.01	.16	300	.13
3	.05	30	0	30	2370	727	.05	100	.01
4	.05	30	0	.67	350	.63	.05	80	.01
5	.05	30	0	32	1960	929	.05	60	.01
6	.05	30	0	98	7580	2500	4.4	840	10
7	.16	100	.04	34	3370	542	.89	350	.84
8	.31	150	.13	6.1	1100	18	54	3620	1080
9	16	1880	253	.33	150	.13	.77	450	.94
10	1.6	485	7.9	154	7650	8420	.16	200	.09
11	.33	60	.05	648	13500	44500	46	3080	1120
12	.16	50	.02	84	2520	2300	4.9	1000	13
13	.16	40	.02	82	3180	1640	.16	250	.11
14	.16	30	.01	.76	400	.82	.05	100	.01
15	.33	100	.09	.50	100	.14	.05	90	.01
16	214	6930	12000	.33	90	.08	.05	80	.01
17	11	2900	86	.33	80	.07	.05	70	.01
18	236	5850	12300	.33	70	.06	.05	60	.01
19	9.6	2650	157	.33	60	.05	.05	50	.01
20	.05	400	.05	.16	50	.02	125	4870	5050
21	.05	150	.02	4.2	900	10	26	1850	350
22	.05	100	.01	4.4	700	8.3	4.9	1500	20
23	.05	80	.01	4.4	600	7.1	.16	200	.09
24	.05	70	.01	7.0	1400	26	.16	100	.04
25	.05	60	.01	2.4	650	4.2	.16	80	.03
26	.05	55	.01	1.6	300	1.3	.16	70	.03
27	.05	55	.01	21	1400	389	.16	65	.03
28	.05	50	.01	52	4080	997	.16	60	.03
29	.05	50	.01	--	--	--	.16	55	.02
30	.16	80	.03	--	--	--	.16	50	.02
31	.05	70	.01	--	--	--	.16	50	.02
TOTAL	490.82	--	24804.45	1269.05	--	63020.94	269.56	--	7645.96

DAY	APRIL			MAY			JUNE		
	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	.05	45	.01	.16	90	.04	.05	55	.01
2	.05	45	.01	.16	85	.04	.05	50	.01
3	.05	40	.01	.16	80	.03	.05	50	.01
4	.05	40	.01	.16	75	.03	.05	45	.01
5	.05	40	.01	.16	70	.03	.05	45	.01
6	.05	35	0	.16	65	.03	.05	45	.01
7	.05	35	0	.16	60	.03	.05	40	.01
8	.05	35	0	.16	55	.02	.05	40	.01
9	.16	80	.03	.16	50	.02	.05	40	.01
10	.05	60	.01	.05	50	.01	.05	35	0
11	.05	50	.01	.05	45	.01	.05	35	0
12	.05	40	.01	.05	45	.01	.05	35	0
13	.76	300	.62	.05	40	.01	.05	35	0
14	.05	150	.02	.05	40	.01	.05	35	0
15	.05	100	.01	.05	35	0	.05	30	0
16	.05	80	.01	.16	100	.04	.05	30	0
17	.05	60	.01	.16	90	.04	.05	30	0
18	.05	55	.01	.05	85	.01	.05	30	0
19	.05	50	.01	.05	85	.01	.05	30	0
20	.05	45	.01	.05	80	.01	.05	25	0
21	.05	40	.01	.05	80	.01	.05	25	0
22	.05	40	.01	.02	75	0	.05	25	0
23	.05	35	0	.02	75	0	.05	25	0
24	.05	35	0	.02	70	0	.05	25	0
25	.16	150	.06	.05	70	.01	.05	25	0
26	.16	100	.04	.05	65	.01	.05	20	0
27	.33	180	.16	.05	65	.01	.05	20	0
28	.16	150	.06	.05	60	.01	.05	20	0
29	.16	100	.04	.05	60	.01	.05	20	0
30	.16	95	.04	.05	60	.01	.05	20	0
31	--	--	--	.05	55	.01	--	--	--
TOTAL	3.15	--	1.23	2.67	--	.51	1.50	--	.09



## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	2251.35
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	98418.74

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

		INSTANTANEOUS DISCHARGE (CFS)		SUSPENDED SEDIMENT CHARGE (MG/L)		SUSPENDED SEDIMENT CHARGE (T/DAY)		SUS. SED. FALL DIAM. % FINER THAN .002 MM		SUS. SED. FALL DIAM. % FINER THAN .004 MM		SUS. SED. FALL DIAM. % FINER THAN .008 MM		SUS. SED. FALL DIAM. % FINER THAN .016 MM		SUS. SED. FALL DIAM. % FINER THAN .031 MM	
DATE	TIME	TEMPERATURE (DEG C)															
NOV. 14...	0930	12.0	820	5770	12800			28	33	44	55	67					
16...	1000	13.0	12	7370	239			56	75	92	98	99					
DEC. 04...	0830	16.0	179	603	291			42	54	69	83	93					
FEB. 10...	1700	18.0	577	31000	48300			27	31	40	52	63					
MAR. 08...	1200	--	144	7720	3000			45	60	75	92	98					
11...	0700	--	5.0	576	7.8			43	56	71	83	89					
		SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. STEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. STEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. STEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. STEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. STEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM					
NOV. 14...	83	--	96	--	98	--	--	99	--	100	--	--					
16...	--	100	--	--	--	--	--	--	--	--	--	--					
DEC. 04...	--	97	--	95	--	97	--	--	99	--	--	100					
FEB. 10...	--	76	--	95	--	99	--	--	100	--	--	--					
MAR. 08...	98	--	99	--	100	--	--	--	--	--	--	--					
11...	92	--	97	--	100	--	--	--	--	--	--	--					

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

		NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	RED STEVE DIAM. % FINDER THAN	RED STEVE DIAM. % FINDER THAN	RED STEVE DIAM. % FINDER THAN	RED STEVE DIAM. % FINDER THAN	RED STEVE DIAM. % FINDER THAN	RED STEVE DIAM. % FINDER THAN	RED STEVE DIAM. % FINDER THAN	RED STEVE DIAM. % FINDER THAN	RED STEVE DIAM. % FINDER THAN
DATE	TIME			.062 MM	.125 MM	.250 MM	.500 MM	1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM
SEP. 18...	1300	2	.05	1	1	5	29	72	89	94	97	100

CALLEGUAS CREEK BASIN

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CALIF.

LOCATION.--Lat 34°10'46", long 119°02'20", in Guadalupe Grant, Ventura County, at gaging station on county bridge, 1.0 mile northeast of Camarillo State Hospital, and 1.4 miles downstream from Conejo Creek.

DRAINAGE AREA.--248 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1973.

Sediment records: October 1968 to September 1973.

EXTREMES, --1972-73:

Sediment concentrations: Maximum daily, 21,300 mg/l Feb. 11; minimum daily, 15 mg/l for several days.

Sediment discharge: Maximum daily, 191,000 tons Feb. 11; minimum daily, 0.05 ton July 28.

Period of record:

Sediment concentrations: Maximum daily, 62,900 mg/l Jan. 25, 1969; minimum daily, no flow for many days

during most years.

Sediment discharge: Maximum daily, 1,700,000 tons Jan. 25, 1969; minimum daily, 0 tons on many days during most years.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

[illegible]

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER				NOVEMBER				DECEMBER			
DAY	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	8.6	60	1.4	7.1	90	1.7	6.4	50	.86		
2	12	80	2.6	9.5	250	6.4	7.1	60	1.2		
3	13	90	3.2	9.5	200	5.1	6.4	50	.86		
4	11	70	2.1	8.6	150	3.5	8.4	3490	2140		
5	9.5	65	1.7	9.5	200	5.1	10	300	8.1		
6	10	60	1.6	7.6	140	2.9	6.4	50	.86		
7	10	50	1.4	6.4	100	1.7	10	100	2.7		
8	9.5	40	1.0	5.7	80	1.2	12	130	4.2		
9	8.6	30	.70	7.1	120	2.3	14	150	5.7		
10	7.6	25	.51	8.6	170	3.9	14	140	5.3		
11	6.4	20	.35	13	560	20	13	130	4.6		
12	6.4	15	.26	11	400	12	11	120	3.6		
13	7.1	20	.38	8.6	290	6.7	11	110	3.3		
14	7.1	20	.38	208	8200	11900	11	105	3.1		
15	7.6	20	.41	32	1320	114	9.5	100	2.6		
16	12	25	.81	28	980	115	8.6	95	2.2		
17	13	30	1.1	126	6740	4240	5.7	70	1.1		
18	64	2760	4170	9.5	330	8.5	6.4	80	1.4		
19	12	280	19	6.4	160	2.8	8.6	95	2.2		
20	5.7	100	1.5	6.4	100	1.7	5.7	80	1.2		
21	5.0	95	1.3	7.1	100	1.9	5.7	75	1.2		
22	5.0	90	1.2	6.4	90	1.6	5.7	60	.92		
23	5.0	80	1.1	7.1	95	1.8	4.4	55	.65		
24	5.0	70	.95	7.6	100	2.1	3.8	50	.51		
25	4.4	60	.71	7.1	100	1.9	2.9	45	.35		
26	5.7	70	1.1	8.6	150	3.5	2.9	40	.31		
27	7.6	120	2.5	6.4	90	1.6	3.3	40	.36		
28	7.1	110	2.1	6.4	60	1.0	3.3	35	.31		
29	7.1	100	1.9	5.7	55	.85	3.8	40	.41		
30	7.1	90	1.7	7.1	60	1.2	3.8	40	.41		
31	6.4	80	1.4	--	--	--	3.8	35	.36		
TOTAL	306.5	--	4226.36	598.0	--	16471.95	304.2	--	2200.87		

JANUARY				FEBRUARY				MARCH			
DAY	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	4.4	40	.48	11	85	2.5	12	280	9.1		
2	5.0	50	.68	12	90	2.9	10	210	5.7		
3	3.8	45	.46	27	400	71	11	220	6.5		
4	3.8	45	.46	21	300	17	16	300	13		
5	5.0	60	.81	14	140	5.3	12	160	5.2		
6	5.7	70	1.1	244	9810	7600	12	120	3.9		
7	6.4	80	1.4	137	5550	3680	16	170	7.3		
8	7.6	90	1.8	21	300	17	80	1740	734		
9	21	350	20	16	190	8.2	17	450	21		
10	40	500	54	236	4160	8680	10	130	3.5		
11	21	230	13	1890	21300	191000	12	220	7.1		
12	26	280	20	116	2220	1440	23	500	31		
13	25	270	18	294	11100	15300	13	240	8.4		
14	17	190	8.7	23	350	22	12	200	6.5		
15	21	210	12	18	280	14	8.6	130	3.0		
16	457	10600	40100	13	230	8.1	8.6	110	2.6		
17	102	3160	2240	11	180	5.3	9.5	120	3.1		
18	691	12400	71500	9.5	150	3.8	10	130	3.5		
19	142	6920	5990	7.6	110	2.3	11	140	4.2		
20	22	300	18	9.5	150	3.8	192	3480	4470		
21	20	230	12	7.6	110	2.3	54	1150	400		
22	14	150	5.7	7.6	100	2.1	40	830	191		
23	11	100	3.0	9.5	150	3.8	13	140	4.9		
24	10	90	2.4	14	190	7.2	10	120	3.2		
25	9.5	80	2.1	14	180	6.8	10	110	3.0		
26	8.6	70	1.6	10	140	3.8	11	130	3.9		
27	7.6	60	1.2	10	130	3.5	8.6	100	2.3		
28	7.6	60	1.2	68	3350	1110	8.6	95	2.2		
29	9.5	80	2.1	--	--	--	7.1	90	1.7		
30	9.5	75	1.9	--	--	--	7.1	90	1.7		
31	9.5	70	1.8	--	--	--	7.1	85	1.6		
TOTAL	1743.5	--	120035.89	3271.3	--	229022.7	672.2	--	5964.1		

## CALLEGUAS CREEK BASIN

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	7.6	90	1.8	7.6	55	1.1	3.3	30	.27
2	7.6	85	1.7	7.6	55	1.1	4.4	35	.42
3	7.6	80	1.6	7.6	50	1.0	8.6	50	1.2
4	10	110	3.0	9.5	100	2.6	9.5	60	1.5
5	7.1	90	1.7	8.6	95	2.2	4.4	50	.59
6	14	160	6.0	6.4	75	1.3	2.9	40	.31
7	13	150	5.3	9.5	90	2.3	3.3	30	.27
8	11	140	4.2	7.6	80	1.6	6.4	45	.78
9	12	130	4.2	7.1	75	1.4	4.4	40	.48
10	10	110	3.0	5.7	70	1.1	5.7	45	.69
11	10	100	2.7	7.1	75	1.4	4.4	40	.48
12	10	90	2.4	7.6	85	1.7	7.1	50	.96
13	7.6	80	1.6	8.6	90	2.1	8.6	60	1.4
14	9.5	110	2.8	9.5	95	2.4	8.6	55	1.3
15	7.6	100	2.1	9.5	80	2.1	5.7	50	.77
16	7.6	90	1.8	8.6	65	1.5	5.0	45	.61
17	7.6	85	1.7	9.5	70	1.8	7.1	50	.96
18	7.6	85	1.7	9.5	65	1.7	6.4	45	.78
19	7.6	85	1.7	7.1	50	.96	5.7	45	.69
20	7.6	80	1.6	6.4	45	.78	4.4	40	.48
21	7.6	80	1.6	7.1	50	.96	4.4	40	.48
22	7.6	75	1.5	7.1	50	.96	5.0	40	.54
23	7.6	75	1.5	7.1	45	.86	4.4	40	.48
24	7.6	75	1.5	7.6	50	1.0	3.8	35	.36
25	7.6	70	1.4	14	90	3.4	4.4	40	.48
26	7.6	70	1.4	11	70	2.1	3.3	35	.31
27	7.6	65	1.3	10	50	1.4	3.3	30	.27
28	7.6	65	1.3	8.6	40	.93	3.8	30	.31
29	7.6	60	1.2	13	50	1.8	1.7	25	.11
30	7.6	60	1.2	17	60	2.8	1.4	25	.09
31	--	--	--	13	40	1.4	--	--	--
TOTAL	258.6	--	66.5	276.1	--	49.75	151.4	--	18.37

DAY	JULY			AUGUST			SEPTEMBER		
	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	1.2	25	.08	1.4	25	.09	5.7	25	.38
2	1.7	25	.11	2.1	25	.14	5.0	20	.27
3	1.4	25	.09	3.3	25	.22	3.8	15	.15
4	2.9	30	.23	6.4	30	.52	4.4	15	.18
5	3.3	30	.27	7.6	35	.72	5.7	20	.31
6	4.4	40	.48	7.1	35	.67	6.4	25	.43
7	1.7	30	.14	7.6	35	.72	6.4	25	.43
8	2.4	25	.16	8.6	40	.93	5.7	25	.38
9	3.8	30	.31	8.6	35	.81	5.0	20	.27
10	3.8	30	.31	8.6	35	.81	3.8	15	.15
11	3.8	25	.26	8.6	30	.70	4.4	15	.18
12	4.4	30	.36	6.4	30	.52	4.4	15	.18
13	3.8	30	.31	5.0	30	.41	4.4	15	.18
14	2.1	30	.17	5.7	25	.38	5.0	20	.27
15	1.7	25	.11	5.7	25	.38	5.0	20	.27
16	2.1	30	.17	3.3	25	.22	5.0	25	.34
17	2.4	40	.26	3.3	25	.22	6.4	30	.52
18	2.9	45	.35	3.3	20	.18	6.4	35	.60
19	1.4	40	.15	3.3	20	.18	7.1	50	.96
20	1.2	35	.11	3.3	20	.18	7.1	55	1.1
21	2.1	35	.20	5.0	25	.34	5.0	50	.68
22	2.4	40	.26	4.4	25	.30	5.7	50	.77
23	2.4	35	.23	3.3	25	.22	5.7	50	.77
24	2.4	30	.19	3.8	25	.26	5.7	45	.69
25	.90	25	.06	3.3	20	.18	5.7	45	.69
26	1.7	30	.14	2.9	20	.16	5.7	40	.62
27	1.4	30	.11	3.3	20	.18	5.7	40	.62
28	.73	25	.05	3.8	20	.21	5.7	35	.54
29	1.2	30	.10	3.3	20	.18	5.7	35	.54
30	1.2	25	.08	3.3	15	.13	5.7	30	.46
31	1.4	25	.09	5.0	20	.27	--	--	--
TOTAL	70.23	--	5.94	150.6	--	11.43	163.4	--	13.93

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

7966.03  
378087.79

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINE THAN .002 MM	SUS. SED. FALL DIAM. % FINE THAN .004 MM	SUS. SED. FALL DIAM. % FINE THAN .008 MM	SUS. SED. FALL DIAM. % FINE THAN .016 MM
NOV.									
06...	1630	18.0	4.6	381	4.7	62	77	93	98
14...	1010	14.5	697	27900	52500	44	52	61	78
17...	0700	10.0	210	14400	8170	48	57	62	78
FER.									
11...	0950	12.5	2400	20000	130000	26	38	45	59
11...	1045	11.0	1880	20700	105000	29	34	41	54
13...	1300	15.0	91	7980	1960	41	48	56	67
MAR.									
20...	0715	12.0	742	12800	25600	34	43	49	62

DATE	SUS. SED. FALL DIAM. % FINE THAN .031 MM	SUS. SED. FALL DIAM. % FINE THAN .062 MM	SUS. SED. FALL DIAM. % FINE THAN .062 MM	SUS. SED. FALL DIAM. % FINE THAN .125 MM	SUS. SED. FALL DIAM. % FINE THAN .125 MM	SUS. SED. FALL DIAM. % FINE THAN .250 MM	SUS. SED. FALL DIAM. % FINE THAN .500 MM	SUS. SED. FALL DIAM. % FINE THAN 1.00 MM
NOV.								
06...	99	--	99	--	100	--	--	--
14...	91	98	--	99	--	100	--	--
17...	87	95	--	99	--	100	--	--
FER.								
11...	71	89	--	99	--	100	--	4-
11...	68	86	--	98	--	100	--	--
13...	72	77	--	82	--	87	96	100
MAR.								
20...	77	89	--	98	--	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINE THAN .125 MM	BED MAT. SIEVE DIAM. % FINE THAN .250 MM	BED MAT. SIEVE DIAM. % FINE THAN .500 MM	BED MAT. SIEVE DIAM. % FINE THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINE THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINE THAN 4.00 MM
SEP.									
18...	1100	3	6.4	2	17	65	94	99	100

## SANTA CLARA RIVER BASIN

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.

LOCATION.--Lat 34°23'59", long 118°42'14", in San Francisco Grant, Ventura County, at gaging station on old diversion weir, 0.8 mile west of Los Angeles-Ventura County Line.

DRAINAGE AREA.--644 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973 (partial-record station).

Chloride: June to September 1969.

Specific conductance: June to September 1969, October 1970 to September 1973.

pH: June to September 1969.

Water temperatures: October 1968 to September 1973.

Sediment records: October 1968 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum recorded, 1,930 micromhos Feb. 3; minimum recorded, 665 micromhos Jan. 18.

Sediment concentrations: Maximum daily, 20,000 mg/l Feb. 11; minimum daily, 10 mg/l on several days during October and November.

Sediment discharge: Maximum daily, 30,800 tons Feb. 11; minimum daily, 0.18 ton Nov. 9.

Period of record:

Specific conductance: Maximum, 3,600 micromhos Mar. 31, 1971; minimum recorded, 665 micromhos Jan. 18, 1973.

Sediment concentrations: Maximum daily, 27,400 mg/l Nov. 29, 1970; minimum daily, 10 mg/l on several days in 1972.

Sediment discharge: Maximum daily, 3,300,000 tons (estimated) Feb. 25, 1969; minimum daily, 0.05 ton Jan. 7, 1969.

REMARKS.--Selected chemical-quality analyses furnished by California Department of Water Resources. Miscellaneous samples of chemical data published for water year 1969. Specific conductance probe or recorder malfunction Nov. 11, 14, Dec. 12 to Jan. 11, Feb. 6-28, Mar. 20 to Apr. 26, May 30, July 27.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
NOV.												
17...	1315	37	40	110	160	57	150	7.1	319	0	262	540
28...	1500	152	--	--	--	--	--	--	--	--	--	361
DEC.												
08...	1100	29	20	90	180	59	140	5.5	365	0	299	580
JAN.												
17...	1030	81	40	--	150	53	120	7.1	300	0	246	530
19...	1115	145	20	--	130	44	100	7.5	254	0	208	440
30...	1415	55	--	--	--	--	--	--	--	--	--	522
FEB.												
11...	1200	5540	20	--	68	20	55	5.4	138	0	113	230
14...	1545	913	9	--	67	24	67	3.8	176	0	144	200
MAR.												
01...	1030	125	40	40	81	29	79	4.4	199	0	163	230
22...	1245	258	40	30	74	26	69	4.8	186	0	153	210
APR.												
24...	1515	17	--	--	--	--	--	--	--	--	--	493
26...	1055	17	40	20	160	56	130	6.1	347	0	285	500
JUNE												
01...	1330	20	0	20	--	--	--	--	--	--	--	--
11...	1120	16	0	10	170	57	140	5.9	371	0	304	500
JULY												
27...	1300	14	--	--	--	--	--	--	--	--	--	469
SEP.												
04...	1230	16	10	0	170	62	150	6.2	367	0	301	570

## 11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
NOV.												
17...	73	.7	1260	1.71	630	370	34	2.6	1620	7.2	--	--
28...	67	--	815	1.11	474	--	--	--	1250	8.1	16.5	35
DEC.												
08...	70	.8	--	1.70	690	390	30	2.3	--	7.6	12.0	--
JAN.												
17...	68	.6	--	1.50	590	350	30	2.1	1560	7.8	12.0	--
19...	62	.7	--	1.27	510	300	30	1.9	1320	7.7	12.0	--
30...	74	--	1160	1.58	637	--	--	--	1600	8.1	14.5	20
FEB.												
11...	37	.5	--	.68	250	140	32	1.5	767	7.8	11.0	--
14...	55	.4	--	.71	270	120	35	1.8	831	8.2	12.0	--
MAR.												
01...	59	.6	708	.96	320	160	34	1.9	942	8.0	18.0	--
22...	56	.4	--	.75	290	140	34	1.8	864	7.8	18.0	--
APR.												
24...	74	--	1200	1.63	621	--	--	--	1450	8.3	25.5	95
26...	73	.6	--	1.54	630	350	31	2.3	1570	8.1	25.0	--
JUNE												
01...	--	--	--	--	--	--	--	--	--	--	19.5	--
11...	76	.8	--	1.59	660	360	31	2.4	1650	8.2	25.5	--
JULY												
27...	70	--	1190	1.62	625	--	--	--	1500	8.2	30.5	20
SEP.												
04...	78	.5	--	1.70	680	380	32	2.5	1760	8.2	19.0	--

DATE	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)
NOV.											
17...	--	--	--	630	--	--	--	--	--	--	--
28...	9.2	--	--	--	--	--	--	--	--	--	--
DEC.											
08...	--	--	--	630	--	--	--	--	--	--	--
JAN.											
17...	--	--	--	560	--	--	--	--	--	--	--
19...	--	--	--	510	--	--	--	--	--	--	--
30...	9.0	--	--	--	--	--	--	--	--	--	--
FEB.											
11...	--	--	--	350	--	--	--	--	--	--	--
14...	--	--	--	360	--	--	--	--	--	--	--
MAR.											
01...	--	--	--	440	--	--	--	--	--	--	--
22...	--	--	--	380	--	--	--	--	--	--	--
APR.											
24...	7.6	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	690	--	--	--	--	--	--	--
JUNE											
01...	--	0	100	--	0	0	0	10	.0	0	0
11...	--	--	--	710	--	--	--	--	--	--	--
JULY											
27...	7.7	--	--	--	--	--	--	--	--	--	--
SEP.											
04...	--	--	--	690	--	--	--	--	--	--	--

## SANTA CLARA RIVER BASIN

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1720	1670	1700	1750	1670	1700	1520	1450	1480	---	---	---
2	1690	1650	1670	1740	1650	1700	1530	1490	1510	---	---	---
3	1690	1630	1660	1720	1640	1690	1530	1510	1530	---	---	---
4	1700	1640	1670	1690	1620	1650	1710	1210	1520	---	---	---
5	1710	1660	1690	1680	1600	1640	1780	1630	1710	---	---	---
6	1710	1680	1690	1660	1570	1630	1760	1640	1660	---	---	---
7	1700	1670	1690	1640	1570	1610	1670	1480	1600	---	---	---
8	1710	1660	1690	1670	1560	1610	1750	1650	1680	---	---	---
9	1710	1650	1690	1650	1560	1620	1890	1690	1770	---	---	---
10	1700	1660	1690	1610	1550	1580	1920	1840	1870	---	---	---
11	1670	1580	1610	---	---	---	1910	1720	1820	---	---	---
12	1620	1580	1600	1550	1500	1520	---	---	---	1250	1200	1220
13	1640	1580	1610	1520	1480	1500	---	---	---	1230	1220	1220
14	1680	1600	1630	---	---	---	---	---	---	1240	1220	1230
15	1670	1630	1650	1770	1710	1740	---	---	---	1260	1240	1250
16	1670	1620	1650	1870	1060	1630	---	---	---	1590	713	1300
17	1660	1620	1640	1730	1040	1500	---	---	---	1560	827	1340
18	1650	1620	1640	1570	1490	1530	---	---	---	1850	665	1330
19	1680	1620	1660	1530	1480	1500	---	---	---	1320	860	1230
20	1670	1640	1660	1520	1470	1500	---	---	---	1330	1260	1290
21	1680	1640	1660	1530	1490	1510	---	---	---	1440	1340	1390
22	1700	1650	1680	1530	1500	1510	---	---	---	1460	1290	1380
23	1760	1680	1700	1540	1500	1520	---	---	---	1330	1240	1280
24	1860	1770	1800	1540	1500	1520	---	---	---	1340	1270	1310
25	1870	1790	1840	1560	1500	1530	---	---	---	1430	1350	1400
26	1870	1800	1890	1510	1330	1420	---	---	---	1460	1400	1420
27	1810	1750	1760	1340	1240	1270	---	---	---	1500	1440	1460
28	1760	1670	1710	1250	1170	1200	---	---	---	1490	1480	1490
29	1770	1690	1740	1290	1200	1240	---	---	---	1560	1500	1520
30	1780	1680	1740	1460	1310	1380	---	---	---	1600	1520	1540
31	1740	1670	1710	---	---	---	---	---	---	1640	1560	1590
MONTH	1870	1580	1690	1870	1040	1530	---	---	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1700	1590	1620	968	942	957	---	---	---	1300	1190	1240
2	1660	1620	1640	1030	927	970	---	---	---	1290	1210	1260
3	1930	1100	1580	1120	1040	1090	---	---	---	1310	1240	1280
4	1660	1270	1580	1150	1050	1110	---	---	---	1320	1260	1300
5	1850	1590	1660	1220	1060	1120	---	---	---	1330	1290	1310
6	---	---	---	1550	1150	1270	---	---	---	1320	1300	1310
7	---	---	---	1390	1230	1310	---	---	---	1330	1320	1330
8	---	---	---	1720	865	1320	---	---	---	1360	1340	1350
9	---	---	---	1200	996	1080	---	---	---	1430	1360	1400
10	---	---	---	1130	1070	1100	---	---	---	1440	1390	1410
11	---	---	---	1500	906	1120	---	---	---	1430	1400	1420
12	---	---	---	1300	1010	1190	---	---	---	1430	1410	1420
13	---	---	---	1340	1250	1300	---	---	---	1440	1430	1440
14	---	---	---	1340	1240	1280	---	---	---	1470	1450	1460
15	---	---	---	1220	1090	1140	---	---	---	1490	1470	1480
16	---	---	---	1100	1040	1070	---	---	---	1500	1480	1490
17	---	---	---	1260	1060	1170	---	---	---	1510	1380	1460
18	---	---	---	1310	1180	1260	---	---	---	1420	1340	1380
19	---	---	---	1320	1270	1290	---	---	---	1390	1330	1360
20	---	---	---	---	---	---	---	---	---	1350	1280	1310
21	---	---	---	---	---	---	---	---	---	1530	1260	1430
22	---	---	---	---	---	---	---	---	---	1510	1430	1470
23	---	---	---	---	---	---	---	---	---	1490	1440	1470
24	---	---	---	---	---	---	---	---	---	1480	1390	1440
25	---	---	---	---	---	---	---	---	---	1480	1400	1450
26	---	---	---	---	---	---	---	---	---	1510	1430	1470
27	---	---	---	---	---	---	1270	1260	1270	1610	1460	1510
28	---	---	---	---	---	---	1280	1200	1250	1580	1430	1500
29	---	---	---	---	---	---	1220	1170	1200	1530	1360	1410
30	---	---	---	---	---	---	1190	1180	1190	---	---	---
31	---	---	---	---	---	---	---	---	---	1500	1420	1470
MONTH	---	---	---	---	---	---	---	---	---	1610	1190	1400



## 159

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C). WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MONTH	1890	1390	1570	1660	1230	1470	1790	1390	1600	1910	1270	1680
-------	------	------	------	------	------	------	------	------	------	------	------	------

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

[illegible]

## SANTA CLARA RIVER BASIN

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	6.6	15	.27	7.0	10	.19	24	100	6.5
2	7.0	15	.28	7.4	10	.20	22	90	5.3
3	11	50	1.5	7.4	10	.20	24	95	6.2
4	11	45	1.3	9.0	15	.36	92	1630	613
5	9.0	40	.97	10	15	.41	30	570	46
6	7.9	35	.75	9.6	15	.39	30	170	14
7	7.0	30	.57	9.0	15	.36	26	610	43
8	9.0	45	1.1	7.9	10	.21	30	200	16
9	10	50	1.4	6.6	10	.18	27	130	9.5
10	9.0	40	.97	7.4	15	.30	28	70	5.3
11	14	50	1.9	22	65	3.9	31	60	5.0
12	12	40	1.3	13	40	1.4	33	70	6.2
13	10	35	.95	9.0	30	.73	35	75	7.1
14	10	30	.81	115	2120	1190	34	75	6.9
15	9.6	25	.65	32	340	40	35	80	7.6
16	12	30	.97	61	810	262	37	90	9.0
17	15	40	1.6	58	1340	343	37	100	10
18	17	60	2.8	11	430	13	37	110	11
19	15	50	2.0	9.0	280	6.8	41	120	13
20	13	45	1.6	9.0	170	4.1	66	130	23
21	14	40	1.5	9.0	100	2.4	98	150	40
22	14	35	1.3	10	75	2.0	116	170	53
23	12	30	.97	11	80	2.4	119	150	48
24	13	35	1.2	12	85	2.8	122	140	46
25	10	30	.81	13	90	3.2	122	130	43
26	10	25	.68	40	110	12	122	125	41
27	12	25	.81	111	370	111	125	130	44
28	13	20	.70	152	490	201	128	135	47
29	8.3	15	.34	116	360	113	131	140	50
30	7.4	10	.20	41	115	13	131	140	50
31	7.0	10	.19	--	--	--	134	150	54
TOTAL	335.8	--	32.39	935.3	--	2330.53	2067	--	1379.6

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	137	160	59	40	80	8.6	125	1500	506
2	140	170	64	41	60	6.6	111	940	282
3	134	160	58	98	400	106	106	780	223
4	119	130	42	80	280	60	122	800	264
5	86	110	26	78	330	69	131	850	301
6	63	90	15	278	2400	1800	134	900	326
7	54	70	10	283	4000	3360	134	690	250
8	46	50	6.2	265	1310	937	149	4700	2600
9	63	60	10	463	1100	1380	131	2400	849
10	49	50	6.6	955	4350	16200	126	2100	714
11	40	50	5.4	4480	20000	308000	141	4200	1600
12	33	45	4.0	1200	3500	11300	125	1330	449
13	28	40	3.0	1000	5200	14000	171	1500	693
14	22	35	2.1	951	3700	9500	174	1300	611
15	16	30	1.3	445	2150	2580	194	1530	801
16	285	2020	6720	164	1550	686	204	1650	909
17	239	2190	4860	213	1390	799	199	1550	833
18	409	3480	13900	167	1100	496	219	1860	1100
19	285	2670	4060	164	1000	443	220	1600	950
20	80	600	130	134	900	326	242	9090	7390
21	56	410	62	137	800	296	301	2700	2470
22	61	250	41	134	700	253	272	3050	2420
23	87	400	94	125	600	203	209	1600	903
24	96	450	117	164	500	221	179	450	217
25	81	390	85	167	450	203	174	560	263
26	67	340	62	167	400	180	178	670	322
27	59	290	46	205	1400	775	171	600	277
28	56	250	38	287	9420	9010	165	550	245
29	54	200	29	--	--	--	162	500	219
30	55	150	22	--	--	--	176	750	356
31	49	100	13	--	--	--	177	1000	478
TOTAL	3049	--	30591.6	12885	--	383198.2	5322	--	29821

## 11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	167	1250	564	20	780	42	20	310	17
2	154	1480	615	20	820	44	17	300	14
3	141	1390	529	19	860	44	17	290	13
4	130	1320	463	19	900	46	16	280	12
5	119	1250	402	20	940	51	15	270	11
6	108	1170	341	20	980	53	14	260	9.8
7	100	1100	297	20	1020	55	15	280	11
8	92	1020	253	21	950	54	15	300	12
9	81	950	208	22	900	53	15	320	13
10	76	1000	205	22	870	52	16	330	14
11	68	1050	193	23	830	52	16	340	15
12	59	990	158	23	800	50	17	300	14
13	51	970	134	23	760	47	16	250	11
14	45	950	115	22	730	43	17	210	9.6
15	41	930	103	21	700	40	16	170	7.3
16	34	910	84	20	350	19	16	130	5.6
17	32	750	65	20	320	17	17	90	4.1
18	29	600	47	21	280	16	17	75	3.4
19	27	700	51	21	260	15	17	90	4.1
20	24	800	52	21	240	14	16	120	5.2
21	23	900	56	21	250	14	16	150	6.5
22	22	1030	61	20	260	14	16	180	7.8
23	19	900	46	20	270	15	15	200	8.1
24	17	800	37	20	280	15	15	220	8.9
25	16	700	30	20	300	16	15	240	9.7
26	17	750	34	19	320	16	14	220	8.3
27	19	780	40	20	340	18	14	200	7.6
28	20	810	44	19	370	19	15	220	8.9
29	20	780	42	19	350	18	14	240	9.1
30	20	750	41	20	340	18	14	270	10
31	--	--	--	22	320	19	--	--	--
TOTAL	1771	--	5310	638	--	989	473	--	291.0

DAY	JULY			AUGUST			SEPTEMBER		
	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	14	290	11	11	45	1.3	14	50	1.9
2	13	310	11	11	40	1.2	15	60	2.4
3	13	280	9.8	11	40	1.2	16	65	2.8
4	13	250	8.8	11	35	1.0	16	40	1.7
5	13	220	7.7	11	35	1.0	16	30	1.3
6	12	190	6.2	10	30	.81	16	25	1.1
7	12	150	4.9	10	30	.81	15	25	1.0
8	12	120	3.9	10	25	.68	15	20	.81
9	12	95	3.1	10	20	.54	14	20	.76
10	12	110	3.6	11	35	1.0	14	15	.57
11	13	120	4.2	11	50	1.5	13	15	.53
12	13	130	4.6	13	110	3.9	13	20	.70
13	13	140	4.9	13	100	3.5	12	25	.81
14	13	150	5.3	13	95	3.3	12	30	.97
15	13	160	5.6	13	90	3.2	12	35	1.1
16	13	170	6.0	13	85	3.0	12	40	1.3
17	13	170	6.0	13	80	2.8	12	45	1.5
18	13	160	5.6	13	75	2.6	11	40	1.2
19	13	150	5.3	13	65	2.3	10	35	.95
20	14	140	5.3	13	60	2.1	9.0	30	.73
21	14	130	4.9	13	55	1.9	8.3	25	.56
22	14	120	4.5	13	50	1.8	7.4	25	.50
23	14	110	4.2	12	45	1.5	6.6	20	.36
24	14	90	3.4	13	40	1.4	6.6	20	.36
25	14	80	3.0	13	35	1.2	6.2	20	.33
26	14	70	2.6	13	30	1.1	6.2	20	.33
27	14	60	2.3	13	25	.88	5.7	25	.38
28	12	55	1.8	13	30	1.1	5.7	25	.38
29	12	50	1.6	14	35	1.3	5.3	25	.36
30	12	50	1.6	14	40	1.5	5.3	25	.36
31	12	45	1.5	14	45	1.7	--	--	--
TOTAL	403	--	154.2	379	--	53.12	330.3	--	28.05

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

28588.4  
454178.69

## SANTA CLARA RIVER BASIN

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
14...	1230	13.0	86	2310	536	50	68	84	91	94
14...	1630	14.0	512	4490	6210	44	56	74	83	91
DEC.										
04...	1300	13.0	93	1700	427	32	51	74	87	89
FEB.										
06...	0720	11.0	318	4630	3980	31	41	57	71	80
10...	1700	13.0	942	11300	28700	22	26	31	45	60
11...	0640	11.0	10600	27300	781000	29	31	44	62	78
11...	1215	11.0	4680	27700	350000	16	19	27	38	52
MAR.										
21...	1325	12.5	421	1960	2230	14	18	25	33	46

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.										
14...	95	--	96	--	99	--	100	--	--	--
14...	94	--	97	--	99	--	100	--	--	--
DEC.										
04...	91	--	92	--	96	--	99	--	100	--
FEB.										
06...	86	--	92	--	98	--	100	--	--	--
10...	70	--	81	--	92	--	99	--	100	--
11...	90	--	97	--	99	--	100	--	--	--
11...	--	67	--	86	--	96	--	99	--	100
MAR.										
21...	64	--	89	--	99	--	100	--	--	--

## SANTA CLARA RIVER BASIN

163

11109550 PIRU CREEK ABOVE FRENCHMANS FLAT, CALIF.

LOCATION.--Lat 34°37'43", long 118°44'42", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec.12, T.6 N., R.18 W., Los Angeles County, on right bank of concrete lined channel beside Interstate Highway 5, 1 mile north of Frenchmans Flat, and 12.5 miles north of Castaic.

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.

Specific conductance: March 1972 to September 1973.

EXTREMES.--1972-73:

Specific conductance: Maximum recorded, 1,620 micromhos Jan. 20; minimum recorded, 338 micromhos Nov. 30.

Period of record:

Specific conductance: Maximum recorded, 1,880 micromhos Sept. 29, 1972; minimum recorded, 338 micromhos Nov. 30, 1972.

REMARKS.--Records of discharge are not published in Part 1 of this report. Gaging station 700 ft upstream operated by California Department of Water Resources. Specific conductance recorder inoperative many days during the year.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
NOV.										
17...	1200	45	9.8	80	3	49	23	77	4.3	139
DEC.										
08...	1000	4.1	12	--	0	37	18	61	2.9	122
JAN.										
18...	1000	79	12	40	30	62	23	51	3.4	115
MAR.										
08...	1300	160	12	30	20	43	19	68	3.1	130
22...	1145	67	17	20	--	92	33	47	3.4	189
APR.										
26...	1000	63	18	20	30	75	27	38	3.1	170

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)
NOV.									
17...	0	114	160	65	.5	1.0	524	462	.71
DEC.									
08...	7	112	100	53	.6	.13	--	353	.48
JAN.									
18...	0	94	200	41	.5	.85	506	454	.69
MAR.									
08...	0	107	140	70	.4	.79	452	424	.61
22...	0	155	290	13	.8	.51	--	593	.81
APR.									
26...	0	139	220	8.3	.8	.07	--	475	.65

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	CARRON DIOXINE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)
NOV.									
17...	220	100	43	2.3	773	7.7	11.0	4.4	780
DEC.									
08...	170	55	44	2.1	560	8.5	7.5	.6	450
JAN.									
18...	250	160	30	1.4	707	7.8	7.5	2.9	280
MAR.									
08...	190	79	44	2.2	557	8.3	10.5	1.0	460
22...	370	210	22	1.1	867	8.1	10.0	2.4	910
APR.									
26...	300	160	21	1.0	707	8.3	19.0	1.4	910

## SANTA CLARA RIVER BASIN

11109550 PIRU CREEK ABOVE FRENCHMANS FLAT, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1180	1040	1090	517	499	512	591	558	572
2	---	---	---	1210	1080	1150	519	501	509	592	571	582
3	1570	1090	1130	1420	1210	1320	513	507	509	596	572	583
4	1370	1030	1160	1410	1370	1380	509	506	509	587	569	575
5	1230	1180	1200	1450	1350	1390	502	484	492	600	570	584
6	1220	1160	1190	1360	1270	1310	555	492	526	627	588	605
7	1230	1190	1210	1280	1240	1260	590	557	572	634	610	621
8	1220	1190	1210	1240	1160	1210	574	534	555	658	631	646
9	1230	1170	1200	1160	1090	1120	531	513	521	690	662	674
10	1250	1150	1200	1240	1100	1130	517	499	508	---	---	---
11	1230	1090	1150	1300	1210	1260	523	499	512	---	---	---
12	1220	1170	1200	1440	1160	1320	545	527	533	---	---	---
13	1230	1150	1190	1130	765	867	572	548	556	---	---	---
14	1220	1170	1190	759	666	710	564	543	551	---	---	---
15	1240	1180	1200	678	660	671	561	540	549	---	---	---
16	1210	1160	1190	683	644	664	559	544	551	---	---	---
17	1200	1160	1180	773	670	687	571	553	558	---	---	---
18	1200	1160	1180	699	672	688	617	578	606	---	---	---
19	1200	1140	1170	699	675	683	593	569	580	---	---	---
20	1190	1130	1150	683	665	674	594	573	582	---	---	---
21	1190	1110	1150	670	652	660	585	570	576	---	---	---
22	1170	1100	1140	654	621	642	583	571	578	---	---	---
23	1170	1100	1140	614	566	581	581	566	574	---	---	---
24	1170	1100	1140	577	559	568	569	563	567	---	---	---
25	1170	1080	1120	585	564	572	564	552	559	---	---	---
26	1130	1090	1120	579	564	572	561	549	553	---	---	---
27	1130	1100	1120	563	554	558	568	550	559	---	---	---
28	1160	1080	1120	550	535	541	577	559	566	---	---	---
29	1130	1060	1090	534	516	524	569	554	560	---	---	---
30	1150	1050	1090	530	338	513	566	548	555	---	---	---
31	1140	1030	1080	---	---	---	582	549	563	---	---	---
MONTH	1570	1030	1160	1450	338	877	617	484	548	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	720	693	704	630	456	540	850	811	835	---	---	---
2	719	695	703	647	581	615	898	796	850	---	---	---
3	727	676	707	646	595	620	909	843	869	---	---	---
4	762	687	727	669	603	638	900	837	863	---	---	---
5	762	702	742	647	620	639	837	807	824	---	---	---
6	935	575	741	665	587	631	849	795	826	---	---	---
7	610	463	506	802	604	657	789	771	778	---	---	---
8	666	594	633	711	557	692	773	662	750	---	---	---
9	722	662	690	699	675	687	836	737	766	---	---	---
10	727	535	647	698	668	688	773	737	754	---	---	---
11	825	423	617	771	678	703	767	725	744	---	---	---
12	561	453	517	743	695	724	730	709	717	---	---	---
13	569	515	539	748	721	738	715	691	702	---	---	---
14	604	511	554	770	722	741	736	535	701	---	---	---
15	615	474	536	775	733	749	715	580	688	---	---	---
16	725	578	641	798	756	771	780	675	722	---	---	---
17	694	685	692	788	761	775	756	705	737	---	---	---
18	810	693	750	792	765	778	702	660	685	---	---	---
19	831	672	727	857	788	821	681	660	669	---	---	---
20	914	692	771	829	754	784	771	681	735	---	---	---
21	844	772	799	911	797	828	800	728	765	---	---	---
22	783	660	746	867	824	842	740	725	732	---	---	---
23	677	641	662	921	825	860	755	713	742	---	---	---
24	664	643	655	1100	879	925	740	719	726	---	---	---
25	672	621	661	1040	873	914	742	703	718	---	---	---
26	675	594	642	938	860	899	---	---	---	---	---	---
27	710	596	642	968	824	895	---	---	---	---	---	---
28	679	424	481	935	863	894	---	---	---	---	---	---
29	---	---	---	914	842	865	---	---	---	---	---	---
30	---	---	---	913	832	862	---	---	---	---	---	---
31	---	---	---	877	823	849	---	---	---	---	---	---
MONTH	935	423	660	1100	456	762	909	535	756	---	---	---

## 165

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

[illegible]





## SANTA CLARA RIVER BASIN

167

11109600 PIRU CREEK ABOVE LAKE PIRU, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	857	750	806
2	---	---	---	---	---	---	---	---	---	811	708	758
3	---	---	---	---	---	---	---	---	---	814	702	759
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	960	790	830	---	---	---
10	---	---	---	---	---	---	906	802	832	854	737	805
11	---	---	---	---	---	---	836	770	806	815	753	786
12	---	---	---	---	---	---	827	742	775	807	751	791
13	---	---	---	---	---	---	767	738	754	831	772	813
14	---	---	---	---	---	---	821	740	768	860	810	834
15	---	---	---	---	---	---	781	749	770	858	798	837
16	---	---	---	---	---	---	791	745	764	880	833	860
17	---	---	---	---	---	---	804	764	782	---	---	---
18	---	---	---	---	---	---	783	727	755	---	---	---
19	---	---	---	---	---	---	751	704	725	---	---	---
20	---	---	---	---	---	---	822	711	755	---	---	---
21	---	---	---	---	---	---	801	552	733	---	---	---
22	---	---	---	---	---	---	755	464	661	---	---	---
23	---	---	---	---	---	---	739	486	561	---	---	---
24	---	---	---	---	---	---	742	480	567	---	---	---
25	---	---	---	---	---	---	736	478	624	---	---	---
26	---	---	---	---	---	---	750	681	716	---	---	---
27	---	---	---	---	---	---	734	698	717	---	---	---
28	---	---	---	---	---	---	717	627	679	---	---	---
29	---	---	---	---	---	---	711	660	698	---	---	---
30	---	---	---	---	---	---	906	641	805	---	---	---
31	---	---	---	---	---	---	---	---	---	1540	1520	1540
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1630	1400	1530	---	---	---	---	---	---	1490	1470	1480
2	1710	1250	1490	---	---	---	---	---	---	1490	1470	1480
3	1980	1170	1660	---	---	---	---	---	---	1490	1470	1480
4	---	---	---	---	---	---	---	---	---	1500	1480	1490
5	---	---	---	---	---	---	---	---	---	1510	1490	1500
6	---	---	---	---	---	---	---	---	---	1540	1490	1510
7	---	---	---	---	---	---	---	---	---	1540	1500	1510
8	---	---	---	---	---	---	---	---	---	1520	1500	1510
9	---	---	---	---	---	---	---	---	---	1520	1510	1510
10	---	---	---	---	---	---	---	---	---	1520	1490	1510
11	---	---	---	---	---	---	---	---	---	1530	1520	1520
12	---	---	---	---	---	---	---	---	---	1540	1510	1530
13	1610	1550	1580	---	---	---	---	---	---	1520	1500	1510
14	1600	1540	1570	---	---	---	---	---	---	1520	1500	1510
15	1580	1520	1550	---	---	---	---	---	---	1520	1500	1510
16	1590	1540	1570	---	---	---	---	---	---	1520	1500	1510
17	1620	1530	1570	---	---	---	---	---	---	1530	1500	1510
18	1670	1550	1630	---	---	---	---	---	---	1530	1500	1520
19	1670	1590	1630	---	---	---	---	---	---	1530	1480	1510
20	1720	1610	1630	---	---	---	---	---	---	1530	1500	1520
21	1760	1610	1640	---	---	---	---	---	---	1520	1510	1510
22	1680	1590	1640	---	---	---	---	---	---	1520	1510	1510
23	1700	1590	1650	---	---	---	---	---	---	1530	1510	1520
24	1670	1590	1630	---	---	---	---	---	---	1530	1510	1520
25	1670	1570	1620	---	---	---	---	---	---	---	---	---
26	1660	1590	1620	---	---	---	---	---	---	---	---	---
27	1620	1560	1590	---	---	---	---	---	---	---	---	---
28	1610	1520	1540	---	---	---	---	---	---	---	---	---
29	1590	1490	1550	---	---	---	---	---	---	---	---	---
30	1570	1160	1390	---	---	---	1510	1470	1490	---	---	---
31	---	---	---	---	---	---	1490	1470	1460	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	1540	1470	1510

## SANTA CLARA RIVER BASIN

11110000 PIRU CREEK NEAR PIRU, CALIF.

LOCATION.--Lat 34°25'30", long 118°45'40", in southern part of Temescal Grant, Ventura County, at gaging station on right bank, 1.8 miles northeast of Piru, and 2 miles upstream from mouth.

DRAINAGE AREA.--437 sq mi.

PERIOD OF RECORD.--Specific conductance: October 1969 to September 1973.  
Water temperatures: October 1969 to September 1970.

EXTREMES.--1972-73:

Specific conductance: Maximum recorded, 2,830 micromhos Nov. 11; minimum recorded, 567 micromhos July 29.

Period of record:

Specific conductance: Maximum recorded, 2,830 micromhos Nov. 11, 1972; minimum recorded, 567 micromhos July 29, 1973.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	2090	1730	1860
2	---	---	---	---	---	---	---	---	---	1720	1550	1650
3	---	---	---	---	---	---	---	---	---	1630	1450	1520
4	---	---	---	---	---	---	---	---	---	1440	1390	1420
5	---	---	---	---	---	---	---	---	---	1430	1350	1400
6	---	---	---	---	---	---	2050	1980	2020	1360	1240	1290
7	---	---	---	1690	1640	1670	2140	2020	2080	1230	1100	1150
8	---	---	---	1690	1630	1670	2150	2070	2110	1100	1060	1080
9	---	---	---	1690	1620	1650	2200	2090	2150	1430	1080	1140
10	---	---	---	1670	1630	1650	2250	2160	2200	2130	1560	2030
11	1680	1620	1730	2830	1570	1980	2250	2170	2230	2100	2010	2050
12	1470	1590	1700	1580	1520	1550	2280	2190	2240	2090	2000	2040
13	1830	1600	1710	1550	1510	1530	2280	2190	2250	2110	2030	2060
14	1860	1620	1700	2570	1510	1930	2300	2190	2270	2110	2000	2050
15	1860	1610	1680	2160	1920	2090	2310	2220	2270	2160	2050	2090
16	1780	1630	1680	2600	2040	2290	2330	2210	2280	2060	1780	2000
17	1870	1640	1720	2540	2150	2290	2370	2270	2310	2360	1820	2200
18	1750	1660	1700	2250	2120	2180	2400	2290	2350	2290	1850	2180
19	1760	1670	1720	2260	2130	2190	2440	2300	2360	2490	1860	2310
20	1760	1680	1730	2270	2130	2230	2430	2240	2320	2500	2340	2430
21	---	---	---	2270	2180	2270	2460	2270	2350	2440	2270	2360
22	---	---	---	2280	2150	2230	2450	2320	2400	2380	2220	2310
23	---	---	---	2270	2190	2230	2440	2230	2370	2340	2180	2280
24	---	---	---	2390	2200	2250	2440	2300	2380	2340	2150	2260
25	---	---	---	2330	2210	2250	2530	2320	2400	2250	2140	2210
26	---	---	---	2350	2210	2270	2410	2280	2370	2240	2050	2170
27	---	---	---	---	---	---	2480	2310	2390	2150	2030	2110
28	---	---	---	---	---	---	2480	2280	2400	2140	2010	2100
29	---	---	---	---	---	---	2640	2280	2410	2260	1990	2140
30	---	---	---	---	---	---	2450	2270	2380	2250	2070	2190
31	---	---	---	---	---	---	2410	2150	2260	---	---	---
MONTH	---	---	---	---	---	---	2640	1980	2290	2500	1060	1940

## SANTA CLARA RIVER BASIN

169

11110000 PIRU CREEK NEAR PIRU, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	2360	2140	2250	---	---	---	---	---	---
3	---	---	---	2260	2090	2210	---	---	---	858	817	839
4	---	---	---	2190	1920	2090	---	---	---	848	812	828
5	---	---	---	1910	1700	1810	---	---	---	834	809	824
6	---	---	---	1710	1340	1620	---	---	---	840	809	824
7	---	---	---	1700	1440	1550	---	---	---	843	804	825
8	---	---	---	1690	1560	1630	---	---	---	846	805	826
9	---	---	---	1780	1620	1700	---	---	---	999	822	877
10	---	---	---	1820	1710	1760	---	---	---	917	853	893
11	---	---	---	1810	1720	1770	---	---	---	852	801	834
12	---	---	---	1820	1730	1760	---	---	---	811	776	797
13	---	---	---	1830	1740	1770	---	---	---	794	754	773
14	---	---	---	1910	1790	1820	---	---	---	813	752	783
15	---	---	---	1970	1860	1900	---	---	---	878	797	831
16	---	---	---	2080	1790	1930	---	---	---	926	807	866
17	---	---	---	2100	1860	2010	---	---	---	959	822	874
18	---	---	---	2180	1980	2100	---	---	---	834	754	788
19	---	---	---	2220	1950	2120	---	---	---	765	718	742
20	---	---	---	---	---	---	---	---	---	727	693	709
21	---	---	---	---	---	---	---	---	---	704	673	691
22	---	---	---	---	---	---	---	---	---	689	658	673
23	---	---	---	---	---	---	---	---	---	669	639	655
24	---	---	---	---	---	---	---	---	---	642	619	632
25	---	---	---	---	---	---	---	---	---	624	613	618
26	---	---	---	---	---	---	---	---	---	651	614	630
27	---	---	---	---	---	---	---	---	---	659	637	645
28	---	---	---	---	---	---	---	---	---	774	653	713
29	---	---	---	---	---	---	---	---	---	842	750	782
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	999	613	769

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	962	743	784	---	---	---
2	---	---	---	---	---	---	1720	1130	1520	---	---	---
3	---	---	---	---	---	---	1710	802	1100	---	---	---
4	---	---	---	816	646	738	1090	825	955	---	---	---
5	---	---	---	656	609	625	1070	882	973	---	---	---
6	---	---	---	854	601	709	1000	848	913	---	---	---
7	---	---	---	776	640	706	992	816	897	---	---	---
8	---	---	---	769	658	706	1300	884	1080	---	---	---
9	---	---	---	846	641	765	1390	1030	1180	---	---	---
10	---	---	---	840	657	729	1500	1080	1300	---	---	---
11	---	---	---	782	618	691	1100	970	1040	---	---	---
12	---	---	---	659	634	649	1240	878	1010	---	---	---
13	---	---	---	650	644	648	991	902	939	---	---	---
14	---	---	---	658	647	652	910	888	899	1090	1070	1080
15	---	---	---	661	643	651	904	882	894	1070	1050	1060
16	---	---	---	641	619	633	915	892	903	1060	1030	1040
17	---	---	---	624	600	617	931	895	909	1030	1010	1020
18	---	---	---	612	592	602	933	897	912	1010	995	1000
19	---	---	---	610	590	600	939	900	911	1030	990	1010
20	---	---	---	606	582	594	913	899	906	1020	980	1000
21	---	---	---	634	598	616	916	899	909	1010	990	1000
22	---	---	---	628	603	620	918	901	909	1040	1000	1020
23	---	---	---	635	588	617	918	901	908	1020	990	1010
24	---	---	---	627	600	613	912	898	905	1050	990	1020
25	---	---	---	608	588	601	912	895	902	1070	950	1010
26	---	---	---	595	582	587	903	892	898	1050	990	1020
27	---	---	---	631	577	597	908	891	898	1050	990	1020
28	---	---	---	616	580	595	1010	897	921	1020	970	990
29	---	---	---	582	567	574	---	---	---	1050	1000	1030
30	---	---	---	831	575	658	---	---	---	1050	990	1020
31	---	---	---	958	638	758	---	---	---	---	---	---
MONTH	---	---	---	958	567	648	1720	743	974	---	---	---

## SANTA CLARA RIVER BASIN

11111500 SESPE CREEK NEAR WHEELER SPRINGS, CALIF.

LOCATION.--Lat 34°34'40", long 119°15'25", in SE¼NW¼SW¼ sec.30, T.6 N., R.22 W., Ventura County, temperature recorder at gaging station at Sespe Gorge, 1.6 miles upstream from Tule Creek, 5 miles upstream from Cold Springs damsite, and 5 miles northeast of Wheeler Springs.

DRAINAGE AREA.--49.5 sq mi.

PERIOD OF RECORD.--Water temperatures: February 1962 to September 1973.  
Sediment records: Water year 1956 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum recorded, 28.0°C May 17, June 27, 28; minimum, 2.0°C Jan. 24, 27, 28.

Period of record:

Water temperatures: Maximum, 29.0°C Aug. 11, 1964; minimum, freezing point on several days in 1970 and 1971.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	13.0	9.0	6.5	7.0	5.5	6.0	5.0	5.5	3.5	10.5	6.0
2	15.5	10.5	11.0	8.0	6.5	5.0	6.0	5.0	6.5	4.5	10.0	6.0
3	14.5	12.0	11.0	8.5	8.0	5.5	6.5	5.5	6.0	5.0	10.5	4.5
4	16.0	10.0	10.5	8.0	9.0	7.0	6.0	4.5	6.5	5.5	9.5	6.0
5	18.0	10.5	11.0	8.0	8.0	5.5	5.0	3.0	6.5	5.0	9.5	5.5
6	19.5	13.0	10.0	6.0	6.0	4.5	4.5	3.0	6.5	5.0	8.5	6.0
7	16.0	10.5	10.0	8.0	7.0	5.5	4.5	3.0	8.0	5.5	11.0	5.5
8	14.0	11.5	9.0	7.0	7.0	5.5	6.5	4.5	7.0	5.0	9.5	5.0
9	15.0	12.0	8.0	5.0	5.5	4.0	8.0	6.5	9.0	5.0	10.5	5.0
10	14.0	10.0	8.0	5.5	---	---	8.0	6.0	9.0	6.5	11.0	5.5
11	13.5	9.0	8.5	5.5	---	---	8.0	6.0	7.0	5.5	10.0	7.0
12	12.0	8.5	8.0	5.0	---	---	8.5	6.5	8.0	5.5	10.0	5.0
13	13.0	8.5	7.0	4.5	---	---	8.5	7.0	9.5	5.0	8.5	5.0
14	12.0	9.5	9.0	6.0	---	---	8.5	6.5	8.5	6.0	9.0	3.0
15	15.0	10.5	9.5	8.0	---	---	8.5	6.5	8.0	5.0	10.5	4.0
16	11.5	9.0	9.0	7.0	---	---	8.0	6.0	8.5	4.5	11.0	4.5
17	12.0	9.0	8.5	6.0	---	---	7.0	5.5	8.5	4.0	11.0	5.0
18	13.5	9.5	8.5	6.0	---	---	6.5	3.0	9.5	4.5	11.0	5.5
19	13.0	9.0	8.5	6.5	---	---	4.5	3.5	9.0	4.5	10.5	5.0
20	13.5	9.0	8.0	6.5	---	---	5.5	3.5	8.5	4.5	9.5	3.5
21	13.5	9.0	8.0	5.5	---	---	6.5	4.0	8.0	6.0	7.0	4.0
22	13.5	9.0	8.0	6.0	---	---	6.0	5.0	10.0	5.5	9.5	4.0
23	13.5	9.0	7.0	6.0	---	---	6.5	3.0	9.5	8.0	11.0	4.5
24	14.0	10.0	8.5	6.0	---	---	5.0	2.0	9.5	6.0	11.5	4.5
25	13.0	9.0	8.5	6.5	---	---	5.5	3.0	10.5	6.0	11.0	5.0
26	11.0	9.0	9.5	7.0	---	---	5.0	3.0	11.0	6.0	9.0	6.0
27	11.0	9.5	10.0	8.5	9.0	6.5	4.5	2.0	9.0	8.0	11.0	5.5
28	12.0	9.0	9.5	8.0	8.5	5.5	5.0	2.0	10.5	6.0	10.0	5.5
29	11.5	8.5	9.0	6.5	5.5	4.0	5.5	3.0	---	---	10.0	4.0
30	9.5	6.0	8.0	5.5	6.0	5.0	7.0	5.0	---	---	11.0	5.0
31	8.5	5.0	---	---	6.5	5.5	6.0	4.0	---	---	13.0	6.0
MONTH	20.0	5.0	11.0	4.5	---	---	8.5	2.0	11.0	3.5	13.0	3.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	5.0	15.0	9.0	18.5	14.5	---	---	---	---	20.0	13.5
2	10.5	3.5	15.5	9.0	20.5	13.5	---	---	---	---	20.0	13.5
3	11.0	4.5	16.5	10.0	20.5	13.5	---	---	24.0	14.0	20.0	13.5
4	12.0	5.5	16.5	10.0	21.0	13.5	---	---	23.0	17.0	19.5	13.5
5	13.5	5.5	15.5	9.5	21.0	14.5	---	---	24.5	17.0	19.5	12.0
6	14.0	7.0	17.0	9.5	21.0	14.5	---	---	22.0	16.0	21.0	13.5
7	13.5	8.0	20.0	10.0	23.5	15.0	---	---	24.0	17.0	21.0	13.5
8	13.5	6.0	21.0	10.5	23.0	14.5	---	---	23.5	16.5	21.0	14.0
9	11.5	6.5	22.0	11.0	23.0	15.5	---	---	23.5	16.0	20.5	13.0
10	13.0	6.5	23.5	11.5	22.0	14.5	---	---	23.5	16.0	19.5	13.5
11	15.0	8.0	23.5	11.0	21.0	13.5	---	---	22.0	17.0	20.5	14.0
12	14.5	8.5	25.5	13.0	21.0	14.0	---	---	23.0	17.0	20.5	14.5
13	13.5	7.0	25.5	13.0	21.5	14.5	---	---	23.5	16.5	20.5	13.5
14	10.0	7.0	23.5	14.5	19.0	13.5	---	---	25.0	17.0	20.5	13.5
15	11.0	6.5	26.5	11.0	20.0	11.5	---	---	24.5	18.0	19.0	12.0
16	14.0	6.5	25.5	13.0	20.5	12.0	---	---	25.0	18.5	19.0	13.0
17	14.5	8.5	28.0	13.5	21.0	13.5	---	---	24.0	16.5	19.0	13.0
18	11.0	5.0	23.5	14.0	21.0	11.5	---	---	24.0	16.5	19.5	13.5
19	11.5	5.5	24.0	14.0	22.0	12.0	---	---	24.0	16.0	20.0	13.5
20	12.0	5.5	25.0	13.0	23.0	13.5	---	---	21.0	16.0	20.0	14.5
21	14.0	6.0	20.5	10.5	22.0	14.0	---	---	22.0	17.0	19.0	13.5
22	14.0	8.0	20.0	13.0	21.0	11.5	---	---	22.0	15.5	18.5	13.0
23	16.0	8.5	20.5	13.0	22.0	12.0	---	---	22.0	14.5	18.0	13.0
24	18.0	9.5	20.0	14.0	23.0	14.0	---	---	20.0	13.0	17.0	12.0
25	18.0	10.5	20.0	14.0	23.5	14.0	---	---	19.5	13.0	17.0	12.0
26	17.0	10.5	19.0	12.0	23.5	11.5	---	---	19.0	14.5	16.5	11.0
27	17.0	11.0	20.5	11.5	28.0	13.5	---	---	19.0	12.0	16.5	10.5
28	17.0	10.5	21.0	12.0	28.0	16.0	---	---	20.5	13.5	16.5	11.0
29	14.5	11.0	21.5	14.5	---	---	---	---	20.0	13.5	16.0	11.0
30	15.0	10.0	23.0	15.0	---	---	---	---	20.5	14.5	16.0	11.0
31	---	---	20.5	14.5	---	---	---	---	21.0	15.0	---	---
MONTH	18.0	3.5	28.0	9.0	28.0	11.5	---	---	25.0	12.0	21.0	10.5

LOCATION.--Lat 34°27'03", long 118°55'30", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.12, T.4 N., R.20 W., Ventura County, at gaging station 0.1 mile downstream from Little Sespe Creek, and 3.5 miles north of Fillmore.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1973.

Specific conductance: October 1969 to September 1973.

Water temperatures: October 1966 to September 1973.

Sediment records: Water years 1956-1962 (partial-record station), October 1966 to September 1973.

Specific conductance: Maximum recorded, 1,190 micromhos Dec. 9; minimum recorded, 503 micromhos Apr. 21.

Sediment concentrations: Maximum daily, 25,000 mg/l Feb. 11; minimum daily, 2 mg/l on many days.

Sediment discharge: Maximum daily, 1,570,000 tons Feb. 11; minimum daily, 0 tons on several days during October.

Specific conductance: Maximum, 1,360 micromhos July 27, 1970; minimum (1970-73), 185 micromhos Dec. 25, 1971.

Water temperatures (1969-70): Maximum, 29.5°C July 4, 18, 20, 1970; minimum, 4.5°C Jan. 4, 1970.

Sediment concentrations: Maximum daily, 31,800 mg/l Jan. 25, 1969; minimum daily, 1 mg/l on many days in 1969-70.

Sediment discharge: Maximum daily, 2,950,000 tons Jan. 25, 1969; minimum daily, 0 tons on many days during most years.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources.

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (PER AC-FT)	HARDNESS (CA+MG) (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)
NOV.												
14...	1100	725	50	60	190	37	--	.54	220	619	6.8	11.0
28...	1345	18	--	--	341	78	794	1.08	444	1180	8.1	14.5
DEC.												
08...	1215	23	9	20	330	72	--	1.07	420	1150	8.0	--
JAN.												
17...	--	--	110	--	260	20	--	.73	340	816	7.5	--
19...	1600	631	30	--	130	11	--	.43	190	485	7.8	7.0
30...	1230	60	--	--	327	37	737	1.00	447	1000	8.2	10.5
FEB.												
11...	1430	11200	20	--	99	2.7	--	.33	160	364	8.0	10.0
13...	0830	1320	--	--	--	--	--	--	--	--	--	8.0
14...	1510	1000	30	--	240	10	--	.69	340	759	8.3	10.5
MAR.												
09...	1030	376	50	10	170	9.6	448	.61	280	629	8.3	9.0
22...	0940	421	9	10	180	8.6	--	.59	290	658	8.2	9.0
APR.												
24...	1315	118	--	--	242	17	584	.79	356	725	8.4	19.5
26...	1220	116	40	0	200	15	--	.65	310	713	8.3	20.5
JUNE												
01...	1100	43	10	0	--	--	--	--	--	--	--	19.0
07...	1045	34	9	0	250	27	--	.75	330	837	8.1	23.0
JULY												
24...	1030	7.9	--	--	250	47	618	.84	323	875	8.2	23.5
SEP.												
07...	1248	3.2	30	20	230	68	--	.83	320	908	8.7	25.5

[illegible]

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

[illegible][illegible]

## 173

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	770	757	765	---	---	---	991	637	861	951	912	933
2	773	760	768	---	---	---	802	702	763	946	907	930
3	773	757	765	---	---	---	845	757	813	941	907	927
4	773	751	762	---	---	---	898	808	860	945	914	934
5	777	744	761	---	---	---	928	867	906	953	918	935
6	763	741	753	---	---	---	958	720	882	957	917	941
7	837	738	752	---	---	---	865	777	841	974	908	948
8	773	742	759	---	---	---	972	875	940	965	924	951
9	780	733	760	---	---	---	1030	939	994	964	928	951
10	786	743	767	---	---	---	997	906	961	964	932	952
11	790	744	770	---	---	---	990	909	956	963	945	955
12	796	741	774	---	---	---	993	930	970	962	926	943
13	803	745	784	---	---	---	1030	942	984	953	913	935
14	813	758	789	---	---	---	1050	990	1020	952	916	933
15	816	755	790	---	---	---	1040	984	1010	947	911	926
16	830	762	799	---	---	---	1040	978	1010	933	898	913
17	843	778	812	---	---	---	1050	981	1020	910	866	890
18	850	778	820	---	---	---	1030	984	1010	897	846	873
19	863	791	830	---	---	---	1030	960	987	884	842	866
20	877	813	844	---	---	---	1010	936	984	884	837	862
21	877	825	852	---	---	---	1010	993	1000	891	840	864
22	897	851	872	---	---	---	1010	942	974	882	825	860
23	918	870	899	---	---	---	972	880	913	882	843	860
24	921	867	893	---	---	---	948	875	916	873	835	854
25	917	874	896	---	---	---	950	877	911	884	838	864
26	924	877	903	---	---	---	944	864	907	888	833	864
27	930	880	920	---	---	---	939	891	916	891	836	865
28	930	890	910	---	---	---	---	---	---	913	835	879
29	959	880	920	---	---	---	953	914	935	909	821	862
30	940	870	910	---	---	---	962	922	943	890	815	858
31	---	---	---	---	---	---	957	917	938	---	---	---
MONTH	950	733	820	---	---	---	1050	637	938	974	815	904

[illegible]

## SANTA CLARA RIVER BASIN

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.29	5	0	1.5	35	.14	17	20	.92
2	.29	5	0	1.4	30	.11	17	15	.69
3	.29	5	0	1.3	30	.11	17	15	.69
4	.29	5	0	1.2	30	.10	27	120	8.7
5	.33	6	.01	.96	25	.06	24	45	2.9
6	.43	8	.01	.78	25	.05	27	30	2.2
7	.43	7	.01	.69	25	.05	27	30	2.2
8	.33	6	.01	.61	20	.03	23	25	1.6
9	.29	5	0	.54	20	.03	20	25	1.4
10	.25	5	0	.48	20	.03	20	25	1.4
11	.25	5	0	9.4	60	1.5	18	20	.97
12	.25	5	0	6.8	50	.92	17	20	.92
13	.25	5	0	6.8	45	.83	17	20	.92
14	.33	6	.01	226	1320	1870	17	20	.92
15	.43	7	.01	95	190	79	16	20	.86
16	.38	7	.01	137	1120	526	16	20	.86
17	.38	7	.01	371	2490	3690	16	20	.86
18	.61	25	.04	108	390	114	16	20	.86
19	5.5	50	.74	49	100	13	16	20	.86
20	4.9	50	.66	30	70	5.7	16	20	.86
21	4.9	50	.66	24	50	3.2	15	20	.81
22	4.9	50	.66	22	25	1.5	16	20	.86
23	4.9	45	.60	20	20	1.1	17	20	.92
24	4.6	45	.56	19	20	1.0	16	20	.86
25	4.6	45	.56	18	20	.97	16	20	.86
26	4.6	40	.50	17	20	.92	14	20	.76
27	4.9	40	.53	17	20	.92	14	20	.76
28	4.9	40	.53	18	20	.97	15	20	.81
29	4.3	40	.46	19	20	1.0	15	20	.81
30	3.0	35	.28	18	20	.97	14	20	.76
31	2.0	35	.19	--	--	--	14	20	.76
TOTAL	64.10	--	7.05	1240.46	--	6314.21	550	--	40.56

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	14	20	.76	56	65	9.8	1130	710	2390
2	14	20	.76	53	60	8.6	678	210	384
3	14	15	.57	58	60	9.4	500	110	149
4	14	15	.57	136	1360	499	411	90	100
5	14	15	.57	115	840	261	338	80	73
6	11	15	.45	3420	6160	126000	352	90	86
7	11	15	.45	6260	10000	298000	390	100	105
8	12	15	.49	914	1570	4260	416	200	225
9	39	210	22	563	730	1130	376	55	56
10	27	95	6.9	5980	13200	400000	292	30	24
11	23	65	4.0	18500	25000	1570000	526	150	213
12	20	40	2.2	3460	5320	61800	406	120	132
13	18	30	1.5	1550	1430	5980	314	60	51
14	17	25	1.1	1000	370	999	268	30	22
15	17	25	1.1	700	160	302	232	30	19
16	579	5260	23800	630	120	204	203	35	19
17	290	4680	4230	539	80	116	187	40	20
18	2140	12300	145000	495	70	94	170	35	16
19	1160	12200	38100	474	65	83	153	30	12
20	348	6690	6370	437	60	71	740	640	1700
21	150	1730	701	420	55	62	448	125	151
22	100	1100	297	480	60	78	421	90	102
23	90	410	100	450	60	73	371	40	40
24	79	210	45	400	50	54	357	35	34
25	75	120	24	360	25	24	348	30	28
26	70	110	21	350	70	66	324	30	26
27	64	100	17	1620	4880	65200	300	25	20
28	60	90	15	3890	5920	81700	276	20	15
29	60	80	13	--	--	--	264	15	11
30	59	75	12	--	--	--	240	15	9.7
31	56	70	11	--	--	--	229	10	6.2
TOTAL	5645	--	218799.42	53310	--	2617083.8	11660	--	6238.9



## SANTA CLARA RIVER BASIN

175

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	218	10	5.9	103	6	1.7	43	3	.35
2	210	10	5.7	91	6	1.5	41	3	.33
3	197	10	5.3	85	6	1.4	41	3	.33
4	189	10	5.1	82	5	1.1	40	3	.32
5	185	10	5.0	78	5	1.1	38	2	.21
6	185	10	5.0	76	5	1.0	35	2	.19
7	195	10	5.3	74	5	1.0	34	2	.18
8	201	10	5.4	68	5	.92	30	2	.16
9	186	10	5.0	64	4	.69	27	2	.15
10	177	10	4.8	61	4	.66	27	3	.22
11	176	10	4.8	59	4	.64	27	3	.22
12	180	10	4.9	57	4	.62	26	3	.21
13	179	10	4.8	56	3	.45	26	4	.28
14	167	10	4.5	54	3	.44	26	4	.28
15	153	10	4.1	56	3	.45	26	4	.28
16	144	9	3.5	52	3	.42	25	5	.34
17	138	9	3.4	50	4	.54	24	5	.32
18	142	9	3.5	48	5	.65	22	6	.36
19	136	9	3.3	46	5	.62	19	6	.31
20	125	8	2.7	46	5	.62	16	7	.30
21	120	8	2.6	43	5	.58	15	7	.28
22	114	8	2.5	43	5	.58	14	7	.26
23	115	7	2.2	42	4	.45	13	8	.28
24	118	7	2.2	40	4	.43	13	8	.28
25	122	7	2.3	37	4	.40	14	8	.30
26	120	7	2.3	37	4	.40	13	9	.32
27	114	6	1.8	36	4	.39	13	9	.32
28	113	6	1.8	45	3	.36	13	9	.32
29	111	6	1.8	42	3	.34	12	9	.29
30	111	6	1.8	42	3	.34	12	9	.29
31	--	--	--	42	3	.34	--	--	--
TOTAL	4641	--	113.3	1755	--	21.13	725	--	8.28

DAY	JULY			AUGUST			SEPTEMBER		
	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	12	9	.29	5.9	7	.11	3.5	2	.02
2	11	9	.27	6.4	6	.10	3.4	2	.02
3	12	9	.29	7.6	5	.10	3.4	2	.02
4	11	9	.27	7.9	4	.09	3.4	2	.02
5	11	9	.27	8.3	3	.07	3.4	2	.02
6	11	9	.27	8.3	3	.07	3.4	2	.02
7	11	9	.27	4.6	3	.04	3.2	2	.02
8	11	9	.27	3.1	3	.03	3.1	2	.02
9	12	8	.26	2.8	3	.02	3.1	2	.02
10	12	8	.26	2.6	4	.03	2.7	2	.01
11	12	8	.26	2.6	4	.03	2.5	2	.01
12	11	8	.24	3.9	4	.04	2.4	2	.01
13	11	8	.24	3.5	4	.04	2.4	2	.01
14	10	7	.19	3.1	4	.03	2.4	2	.01
15	11	7	.21	4.1	4	.04	2.3	2	.01
16	11	7	.21	3.8	4	.04	2.3	2	.01
17	11	6	.18	2.9	5	.04	2.1	2	.01
18	11	6	.18	3.5	5	.05	2.1	3	.02
19	11	5	.15	4.5	5	.06	2.1	3	.02
20	10	5	.14	3.6	5	.05	2.1	3	.02
21	9.1	6	.15	2.1	5	.03	2.1	3	.02
22	8.1	7	.15	1.7	4	.02	2.1	3	.02
23	7.9	8	.17	1.6	4	.02	2.2	4	.02
24	7.9	9	.19	1.5	3	.01	2.0	4	.02
25	7.9	10	.21	2.4	3	.02	1.4	4	.02
26	8.1	11	.24	3.7	3	.03	1.8	5	.02
27	8.1	11	.24	3.2	2	.02	1.8	5	.02
28	7.8	10	.21	3.2	2	.02	1.7	5	.02
29	7.9	10	.21	3.2	2	.02	1.6	5	.02
30	6.2	9	.15	3.4	2	.02	1.5	5	.02
31	5.3	8	.11	3.5	2	.02	--	--	--
TOTAL	307.3	--	6.75	122.5	--	1.31	73.5	--	.52

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

80093.86  
2848635.23

## SANTA CLARA RIVER BASIN

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
DEC. 04...	1530	12.0	31	256	21	--	--	--	--	--
FEB. 11...	1430	10.0	11200	18900	584000	13	14	21	29	42
12...	1230	10.0	2800	4060	30700	15	22	30	39	51
13...	0830	8.0	1320	1190	4240	25	31	41	52	62
15...	1700	11.0	680	143	263	--	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
DEC. 04...	--	95	--	97	--	99	--	100	--
FEB. 11...	56	--	76	--	90	--	99	--	100
12...	68	--	81	--	91	--	98	--	100
13...	73	--	83	--	94	--	99	--	100
15...	--	81	--	87	--	94	--	100	--

## SANTA CLARA RIVER BASIN

177

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CALIF.

LOCATION.--Lat 34°23'44", long 119°04'32", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.27, T.4 N., R.21 W., Ventura County, at gaging station on right bank, 15 ft upstream from Santa Paula Water Works diversion dam, 200 ft upstream from Mud Creek, and 3 miles north of Santa Paula.

DRAINAGE AREA.--40.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1973.

Specific conductance: April 1969 to September 1973.

Water temperatures: April 1969 to September 1970.

EXTREMES.--1972-73:

Specific conductance: Maximum recorded, 1,370 micromhos Oct. 14; minimum recorded, 485 micromhos Mar. 20.

Period of record:

Specific conductance: Maximum recorded, 1,370 micromhos Oct. 14, 1972; minimum recorded, 477 micromhos Jan. 23, 1971.

REMARKS.--Selected chemical-quality records furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
NOV.										
14...	1300	54	9.7	30	94	22	50	3.7	151	0
28...	1100	4.2	--	--	--	--	--	--	--	--
DEC.										
08...	1200	3.9	16	9	110	32	83	2.0	293	0
JAN.										
17...	1400	23	14	50	80	19	40	1.9	203	0
19...	1750	58	14	20	73	17	31	1.9	166	0
30...	1000	8.0	--	--	--	--	--	--	--	--
FEB.										
11...	1600	2680	13	30	35	7.9	13	2.6	84	0
MAR.										
22...	1330	161	15	20	78	18	27	1.8	182	0
APR.										
24...	1030	33	--	--	--	--	--	--	--	--
26...	1255	28	15	9	89	22	35	1.7	209	0
JUNE										
01...	0900	23	--	20	--	--	--	--	--	--
07...	1320	12	14	40	74	22	41	1.7	164	0
JULY										
24...	0845	6.4	--	--	--	--	--	--	--	--

DATE	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)
NOV.										
14...	124	270	33	.6	1.5	--	564	.77	82.2	330
28...	--	262	46	--	--	672	--	.91	--	400
DEC.										
08...	240	270	51	.5	.07	--	709	.96	7.47	410
JAN.										
17...	167	180	22	.3	1.1	--	462	.63	28.7	280
19...	136	160	18	.4	1.6	--	404	.55	63.5	250
30...	--	247	36	--	--	633	--	.86	13.7	396
FEB.										
11...	69	82	5.3	.3	1.2	--	206	.28	990	120
MAR.										
22...	149	160	9.8	.3	.41	--	402	.55	175	270
APR.										
24...	--	188	14	--	--	497	--	.68	44.3	312
26...	171	190	14	.3	.19	--	471	.64	35.6	310
JUNE										
01...	--	--	--	--	--	--	--	--	--	--
07...	135	200	19	.5	.02	--	453	.62	14.7	280
JULY										
24...	--	206	23	--	--	578	--	.79	9.99	342

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)
NOV. 14...	200	25	1.2	853	6.9	15.0	--	--	--
28...	--	--	--	1040	8.2	14.0	0	11.0	--
DEC. 08...	170	31	1.8	1050	7.6	11.5	--	--	--
JAN. 17...	110	24	1.0	704	8.1	--	--	--	--
19...	120	21	.9	619	7.9	8.5	--	--	--
30...	--	--	--	900	8.1	10.0	2	10.1	--
FEB. 11...	51	19	.5	321	8.1	12.5	--	--	--
MAR. 22...	120	18	.7	616	8.1	15.0	--	--	--
APR. 24...	--	--	--	620	8.1	16.5	2	9.6	--
26...	140	19	.9	704	8.3	22.5	--	--	--
JUNE 01...	--	--	--	--	--	18.0	--	--	0
07...	140	24	1.1	703	8.1	24.0	--	--	--
JULY 24...	--	--	--	800	8.1	20.0	--	9.3	--

[illegible]

## SANTA CLARA RIVER BASIN

179

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	1130	1050	1100	1060	960	1030
2	---	---	---	---	---	---	1170	1030	1080	1080	970	1040
3	---	---	---	---	---	---	1090	1010	1060	1230	1050	1120
4	---	---	---	---	---	---	1330	983	1090	1190	1030	1140
5	---	---	---	---	---	---	1100	1060	1080	1160	980	1060
6	---	---	---	---	---	---	1070	1060	1100	1050	970	1020
7	---	---	---	---	---	---	1110	1050	1080	1050	970	1030
8	---	---	---	1180	1130	1140	1120	1050	1100	---	---	---
9	---	---	---	1180	1130	1150	1120	1070	1110	---	---	---
10	---	---	---	1190	1130	1160	1120	1070	1100	1060	980	1030
11	1160	1070	1140	1250	1010	1170	1110	1050	1100	1140	983	1060
12	1170	1130	1150	1280	1210	1240	1110	1040	1080	1150	1040	1090
13	1180	1130	1150	1270	1220	1250	1100	1030	1080	1140	971	1040
14	1370	1160	1230	1310	868	1120	1100	1020	1070	1050	960	1020
15	1280	1180	1220	1330	1120	1260	1100	1010	1070	1050	967	1020
16	1220	1160	1200	1320	887	1110	1090	1000	1060	---	---	---
17	1250	1180	1220	980	745	859	1090	990	1060	---	---	---
18	1260	1190	1230	990	831	902	1090	986	1060	---	---	---
19	1300	1170	1220	1040	990	1020	1090	977	1050	---	---	---
20	1250	1180	1230	1100	1040	1060	1080	977	1050	---	---	---
21	1270	1090	1220	1080	1010	1040	1080	977	1050	---	---	---
22	1260	1130	1190	1070	1030	1050	1070	963	1040	---	---	---
23	1220	1150	1190	1070	1030	1050	1070	963	1040	---	---	---
24	1220	1110	1180	1090	1010	1070	1080	971	1050	---	---	---
25	1260	1130	1210	1120	970	1070	1090	1060	1080	---	---	---
26	---	---	---	1130	970	1060	1120	1030	1070	---	---	---
27	---	---	---	1180	980	1110	1120	1070	1080	---	---	---
28	---	---	---	1170	1030	1070	1070	1060	1070	---	---	---
29	---	---	---	1050	1050	1050	1070	980	1040	---	---	---
30	---	---	---	1200	1060	1150	1070	980	1040	---	---	---
31	---	---	---	---	---	---	1060	980	1040	---	---	---
MONTH	---	---	---	---	---	---	1330	963	1070	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	697	681	691	703	695	699
2	---	---	---	---	---	---	699	680	690	711	702	708
3	996	961	972	---	---	---	698	676	690	711	700	705
4	---	---	---	---	---	---	709	667	691	715	710	714
5	---	---	---	---	---	---	705	672	693	713	704	709
6	---	---	---	---	---	---	699	660	685	710	702	704
7	---	---	---	---	---	---	709	653	687	710	699	705
8	---	---	---	---	---	---	711	669	691	707	693	703
9	---	---	---	---	---	---	696	663	684	707	699	702
10	---	---	---	---	---	---	690	662	681	710	701	704
11	---	---	---	---	---	---	689	664	680	709	695	703
12	---	---	---	---	---	---	691	671	682	707	699	703
13	---	---	---	659	655	656	690	682	685	708	698	702
14	---	---	---	673	653	665	689	681	685	705	692	698
15	---	---	---	694	672	684	694	685	688	699	687	692
16	---	---	---	708	690	700	696	687	691	697	681	691
17	---	---	---	721	702	714	698	689	693	702	683	691
18	---	---	---	729	715	723	697	688	692	702	674	691
19	---	---	---	744	725	734	690	685	688	702	683	693
20	---	---	---	735	485	645	689	681	686	700	686	693
21	---	---	---	765	683	714	689	680	684	694	653	681
22	---	---	---	711	616	699	723	679	691	689	630	669
23	---	---	---	705	691	696	684	679	681	689	622	666
24	---	---	---	693	682	687	686	678	681	699	649	682
25	---	---	---	684	675	679	682	674	679	718	699	710
26	---	---	---	675	670	674	704	677	680	723	616	684
27	---	---	---	682	671	677	699	690	695	723	609	683
28	---	---	---	681	667	675	701	693	696	725	595	678
29	---	---	---	678	664	670	699	690	695	722	599	677
30	---	---	---	693	671	683	703	695	699	724	603	680
31	---	---	---	701	684	692	---	---	---	732	696	718
MONTH	---	---	---	---	---	---	723	653	688	732	595	695

## SANTA CLARA RIVER BASIN

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	745	701	727	772	697	743	817	789	803	899	828	875
2	750	706	729	774	704	748	820	798	810	897	821	871
3	744	689	721	766	696	741	824	788	810	896	819	867
4	744	646	711	776	698	745	827	788	813	894	826	874
5	743	636	704	778	694	746	833	800	820	890	808	855
6	748	633	704	780	702	751	837	809	826	895	810	858
7	747	650	707	776	712	752	843	801	826	894	811	862
8	760	657	719	775	731	758	841	799	825	896	804	859
9	762	658	722	777	727	750	847	808	829	887	800	855
10	758	665	726	786	735	766	850	809	835	889	846	862
11	753	663	723	790	731	766	856	820	842	874	788	841
12	757	663	722	783	750	770	863	821	848	866	786	836
13	759	694	737	777	740	762	874	830	856	871	786	844
14	748	683	723	775	741	761	878	833	861	884	790	851
15	750	665	720	763	738	752	887	839	867	879	786	846
16	755	669	724	767	742	755	887	840	869	870	784	843
17	747	668	715	767	745	759	896	794	876	869	767	837
18	751	665	718	768	738	754	895	834	871	865	776	835
19	753	672	725	761	739	752	918	835	873	866	771	833
20	751	663	719	762	737	752	921	834	871	868	770	834
21	764	674	729	757	741	751	904	823	855	877	769	838
22	771	683	738	761	739	753	907	816	856	893	841	870
23	757	670	724	767	742	757	901	816	857	902	796	868
24	754	674	725	768	746	760	897	823	858	922	801	873
25	758	681	730	778	750	765	902	830	869	897	782	861
26	756	684	727	792	742	763	897	839	879	930	806	875
27	755	679	727	777	749	765	906	835	878	915	791	875
28	757	681	729	789	769	780	901	831	873	921	784	869
29	752	675	722	798	781	791	893	827	872	910	770	865
30	756	683	729	802	775	791	905	831	873	909	768	858
31	---	---	---	808	780	797	904	824	875	---	---	---
MONTH	771	633	723	808	694	760	921	788	851	930	767	856

## 11113900 SATICOY DIVERSION NEAR SATICOY, CALIF.

LOCATION.--Lat 34°17'06", long 119°07'14", in Santa Paula Y Saticoy Grant, Ventura County, at gaging station on diversion ditch, 0.7 mile downstream from Santa Clara River, and 1.5 miles east of Saticoy.

PERIOD OF RECORD.--Specific conductance: April 1969 to September 1973.  
Water temperatures: April 1969 to September 1970.

## EXTREMES.--1972-73:

Specific conductance: Maximum, 2,320 micromhos Oct. 21; minimum recorded, 896 micromhos Mar. 16.

## Period of record:

Specific conductance: Maximum, 2,320 micromhos Oct. 21, 1972; minimum, 825 micromhos Jan. 19, 1971.

## SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1820	1590	1710	2050	2000	2030	2010	1960	1990	1890	1820	1860
2	1670	1390	1570	2060	1980	2030	1970	1870	1900	1900	1820	1870
3	1600	1390	1400	2040	1970	2000	1920	1880	1890	1930	1870	1900
4	2110	1610	1870	2090	1900	2050	1920	1530	1740	1910	1850	1880
5	2220	2060	2160	2120	2020	2080	1860	1790	1830	1890	1820	1850
6	2150	1950	2070	2080	2030	2050	1860	1780	1820	1880	1810	1850
7	2080	1940	2010	2100	2050	2080	1870	1790	1840	1870	1810	1840
8	---	---	---	2110	2000	2080	1840	1800	1820	1880	1840	1860
9	---	---	---	2130	2020	2090	1830	1770	1800	1860	1610	1790
10	---	---	---	2120	2100	2110	1790	1740	1770	1900	1800	1840
11	---	---	---	2100	1770	1990	1790	1710	1760	1960	1880	1910
12	2010	1910	1940	2020	1870	1980	1820	1730	1780	1980	1910	1950
13	2000	1900	1940	2080	1980	2030	1860	1780	1820	1990	1960	1980
14	1930	1840	1880	2080	1330	1650	1850	1790	1830	2020	1970	1990
15	1950	1630	1850	1730	1340	1560	1850	1790	1820	2020	1980	2000
16	1310	1230	1280	1950	1390	1780	1870	1790	1830	2070	2030	2070
17	1320	1220	1270	1560	1030	1190	1880	1830	1850	---	---	---
18	1300	1150	1240	1570	1170	1400	1900	1850	1870	---	---	---
19	1840	1210	1540	1890	1560	1760	1940	1880	1900	---	---	---
20	2260	1800	1990	2020	1880	1940	1960	1900	1930	---	---	---
21	2320	2220	2270	2100	1990	2040	1940	1910	1930	---	---	---
22	2260	2180	2220	2120	1990	2070	1950	1920	1930	---	---	---
23	2240	2110	2190	2130	1970	2080	1950	1910	1930	1300	1190	1230
24	2150	1970	2080	2110	2050	2080	1940	1890	1910	1360	1250	1310
25	2060	1930	2000	2120	2050	2080	1920	1880	1900	1550	1380	1450
26	2040	1920	2000	2110	2060	2090	1950	1890	1920	1620	1560	1580
27	2060	1990	2020	2120	2060	2090	1930	1880	1910	1650	1590	1620
28	2060	1980	2020	2100	2020	2070	1930	1870	1900	1680	1620	1650
29	2070	1970	2010	2040	1990	2010	1900	1840	1880	1750	1650	1680
30	2060	1860	1990	2030	1960	2000	1890	1840	1870	1770	1730	1740
31	2070	1980	2020	---	---	---	1890	1820	1860	1810	1730	1760
MONTH	2320	1150	1850	2130	1030	1950	2010	1530	1860	2070	1190	1780

## SANTA CLARA RIVER BASIN

11113900 SATICOY DIVERSION NEAR SATICOY, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1800	1740	1770	---	---	---	1140	1080	1100	1210	1130	1170
2	1840	1760	1800	---	---	---	1090	1050	1050	1250	1170	1200
3	1840	1790	1810	---	---	---	1170	1070	1120	1270	1200	1230
4	1790	1470	1690	---	---	---	1190	1100	1140	1300	1230	1260
5	1610	1470	1540	---	---	---	1180	1090	1140	1320	1250	1280
6	---	---	---	---	---	---	1190	1110	1150	1310	1260	1280
7	---	---	---	---	---	---	1180	1120	1140	1350	1260	1300
8	---	---	---	---	---	---	1160	1100	1120	1390	1290	1330
9	---	---	---	---	---	---	1140	1080	1110	1510	1330	1360
10	---	---	---	---	---	---	1170	1090	1120	1420	1360	1380
11	---	---	---	---	---	---	1180	1110	1140	1450	1380	1410
12	---	---	---	---	---	---	1180	1120	1150	1440	1390	1420
13	---	---	---	---	---	---	1160	1110	1130	1440	1390	1420
14	---	---	---	---	---	---	1150	1080	1110	1480	1420	1440
15	---	---	---	---	---	---	1160	1090	1120	1520	1450	1470
16	---	---	---	1060	896	977	1190	1090	1130	1510	1420	1470
17	---	---	---	1100	1010	1050	1150	1120	1130	1520	1450	1480
18	---	---	---	1110	1030	1060	1190	1100	1140	1530	1500	1510
19	---	---	---	1120	1030	1070	1190	1080	1130	1540	1510	1520
20	---	---	---	---	---	---	1190	1090	1140	1540	1510	1520
21	---	---	---	---	---	---	1200	1100	1150	1550	1520	1530
22	---	---	---	---	---	---	1210	1110	1150	1560	1520	1540
23	---	---	---	---	---	---	1200	1120	1160	1580	1540	1560
24	---	---	---	---	---	---	1210	1120	1160	1630	1580	1600
25	---	---	---	---	---	---	1190	1100	1140	1640	1610	1630
26	---	---	---	---	---	---	1170	1100	1140	1640	1500	1610
27	---	---	---	---	---	---	1160	1100	1130	1610	1420	1530
28	---	---	---	1100	916	1030	1140	1110	1120	1440	1310	1410
29	---	---	---	1120	1020	1060	1160	1100	1130	1420	1380	1410
30	---	---	---	1140	1040	1080	1170	1120	1140	1430	1290	1390
31	---	---	---	1130	1050	1090	---	---	---	1460	1440	1450
MONTH	---	---	---	---	---	---	1210	1050	1130	1640	1130	1420
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1470	1460	1460	1460	1270	1370	1420	1360	1390	1490	1390	1420
2	1470	1410	1450	1430	1270	1410	1490	1390	1430	1420	1390	1410
3	1430	1370	1410	1440	1170	1360	1480	1340	1400	1430	1400	1410
4	1400	1330	1380	1440	1380	1420	1500	1360	1430	1430	1410	1420
5	1490	1220	1370	1410	1120	1290	1500	1380	1440	1450	1350	1390
6	1620	1430	1490	1400	1360	1380	1490	1400	1440	1450	1300	1360
7	1540	1510	1530	1350	1320	1330	1490	1390	1430	1390	1340	1370
8	1580	1430	1550	1320	1300	1310	1440	1390	1410	1400	1350	1370
9	1650	1430	1520	1300	1270	1290	1490	1410	1430	1400	1360	1390
10	1700	1560	1630	1280	1220	1250	1480	1380	1420	1400	1380	1390
11	1590	1360	1540	1220	1170	1200	1440	1360	1400	1400	1350	1380
12	1590	1340	1520	1190	1140	1170	1480	1400	1420	1400	1340	1370
13	1640	1490	1530	1280	1130	1160	1480	1360	1420	1400	1370	1390
14	1560	1220	1470	1160	1100	1140	1470	1390	1420	1390	1370	1380
15	1590	1180	1400	1110	1050	1070	1460	1360	1420	1390	1350	1380
16	1520	1120	1470	1080	1050	1070	1430	1380	1410	1380	1360	1370
17	1480	1090	1370	1120	1080	1100	1470	1400	1430	1380	980	1220
18	1490	1160	1420	1140	1080	1120	1460	1390	1410	1310	1180	1270
19	1570	1220	1360	1140	1080	1110	1450	1400	1420	1360	1310	1330
20	1510	1340	1470	1110	1010	1080	1420	1400	1410	1380	1360	1370
21	1540	1330	1500	---	---	---	1410	1390	1410	1390	1370	1380
22	1560	1490	1510	---	---	---	1430	1400	1410	1390	1360	1380
23	1520	1470	1490	---	---	---	1440	1400	1410	1400	1360	1380
24	1490	1400	1460	1450	1340	1400	1470	1340	1400	1390	1370	1380
25	1520	1390	1440	1460	1330	1410	1460	1310	1400	1400	1360	1380
26	1530	1490	1510	1390	1320	1360	1470	1350	1440	1410	1380	1400
27	1510	1480	1490	1360	1340	1350	1480	1320	1430	1420	1390	1400
28	1510	1220	1480	1360	1320	1340	1480	1300	1420	1420	1360	1390
29	1410	1270	1340	1340	1310	1330	1550	1290	1420	1390	1360	1380
30	1360	1250	1310	1380	1360	1360	1480	1300	1410	1400	1380	1390
31	---	---	---	1380	1340	1360	1510	1360	1450	---	---	---
MONTH	1700	1090	1460	1460	1010	1270	1550	1290	1420	1490	980	1380



## 183

LOCATION.--Lat 34°14'31", long 119°11'21", in San Miguel Grant, Ventura County, at gaging station on southbound bridge on U.S. Highway 101, and 0.9 mile southeast of Montalvo.

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1969, October 1970 to September 1973.  
Sediment records: October 1967 to September 1973.  
Prior to October 1969, published as "at Saticoy" (sta 11113920).

Sediment concentrations: Maximum daily, 34,500 mg/l Feb. 11; minimum daily, no flow for many days.  
Sediment discharge: Maximum daily, 2,670,000 tons Feb. 11; minimum daily, 0 tons on many days.

Sediment concentrations: Maximum daily, 69,200 mg/l Feb. 25, 1969; minimum daily, no flow for many days each year.

Sediment discharge: Maximum daily, 20,400,000 tons Feb. 25, 1969; minimum daily, 0 tons on many days each year.

REMARKS.--Miscellaneous analyses of chemical data published for water year 1969. No flow Oct. 12 to Nov. 10, Dec. 2, 3, 15, Dec. 21 to Jan. 15, June 21 to Sept. 30. High sediment concentrations during low flow period October to April due to sluicing of fine material at upstream gravel works. Sediment table omitted for period of no flow during July to September.

[illegible]

## SANTA CLARA RIVER BASIN

11114000 SANTA CLARA RIVER AT MONTALVO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.14	250	.09	0	0	0	.01	40	0
2	.52	1650	2.3	0	0	0	0	0	0
3	1.6	3000	13	0	0	0	0	0	0
4	1.7	2500	11	0	0	0	.04	500	.05
5	1.1	2200	6.5	0	0	0	.03	250	.03
6	1.5	2500	10	0	0	0	.02	200	.01
7	.69	1200	2.2	0	0	0	.03	500	.04
8	.18	400	.19	0	0	0	.03	490	.04
9	.78	1500	3.2	0	0	0	.02	210	.01
10	.28	900	.68	0	0	0	.02	150	.01
11	.07	450	.09	.04	350	.04	.01	110	0
12	0	0	0	.05	200	.03	.01	90	0
13	0	0	0	.05	100	.01	.01	70	0
14	0	0	0	338	1920	2840	.01	60	0
15	0	0	0	142	860	330	0	0	0
16	0	0	0	15	1290	91	.03	300	.02
17	0	0	0	228	2180	1710	.02	200	.01
18	0	0	0	18	380	18	.01	150	0
19	0	0	0	.18	140	.07	.01	100	0
20	0	0	0	.10	90	.02	.01	50	0
21	0	0	0	.09	630	.15	0	0	0
22	0	0	0	.08	300	.06	0	0	0
23	0	0	0	.08	150	.03	0	0	0
24	0	0	0	.07	70	.01	0	0	0
25	0	0	0	.07	65	.01	0	0	0
26	0	0	0	.06	60	.01	0	0	0
27	0	0	0	.05	55	.01	0	0	0
28	0	0	0	.04	50	.01	0	0	0
29	0	0	0	.03	45	0	0	0	0
30	0	0	0	.02	40	0	0	0	0
31	0	0	0	--	--	--	0	0	0
TOTAL	8.56	--	49.25	742.01	--	4989.46	.32	--	.22

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	0	0	0	.60	55	.09	1700	1000	4590
2	0	0	0	.50	50	.07	1200	800	2590
3	0	0	0	.30	40	.03	900	750	1820
4	0	0	0	.70	55	.10	780	700	1470
5	0	0	0	.50	45	.06	670	650	1180
6	0	0	0	2830	7940	66500	500	580	783
7	0	0	0	7330	10300	273000	900	1000	2430
8	0	0	0	1480	2400	9590	1250	1910	6450
9	0	0	0	681	650	1200	680	720	1320
10	0	0	0	6410	20200	451000	1000	1000	2700
11	0	0	0	25800	34500	2670000	1200	1500	4860
12	0	0	0	5600	10500	159000	800	800	1730
13	0	0	0	3300	5200	46300	640	600	1040
14	0	0	0	2500	1700	11500	560	400	605
15	0	0	0	1000	900	2430	250	200	135
16	465	4810	17600	700	740	1400	120	100	32
17	1040	8870	33900	500	590	797	85	60	14
18	5280	7920	276000	450	480	583	75	50	10
19	3100	7350	94900	400	370	400	65	40	7.0
20	363	900	882	370	300	300	1380	2300	8570
21	300	200	162	360	250	243	1000	1400	3780
22	200	150	81	410	200	221	800	1600	3460
23	100	110	35	370	150	150	650	350	614
24	60	110	18	330	130	116	560	300	454
25	30	90	7.3	300	115	93	530	280	401
26	18	80	3.9	280	310	234	510	250	344
27	10	75	2.0	2500	3000	20300	510	230	317
28	5.0	80	1.1	6200	7000	117000	50	150	20
29	3.0	85	.69	--	--	--	5.0	50	.68
30	1.5	80	.32	--	--	--	3.0	10	.08
31	1.0	75	.20	--	--	--	2.5	10	.07
TOTAL	10976.5	--	423593.51	70103.60	--	3832357.35	19375.5	--	51726.83

## SANTA CLARA RIVER BASIN

185

11114000 SANTA CLARA RIVER AT MONTALVO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	2.0	10	.05	.21	60	.03	.11	50	.01
2	1.7	10	.05	.20	50	.03	.11	45	.01
3	1.4	10	.04	.19	40	.02	.11	40	.01
4	1.2	15	.05	.19	35	.02	.11	40	.01
5	1.1	15	.04	.18	40	.02	.11	40	.01
6	.94	15	.04	.17	45	.02	.11	40	.01
7	.84	15	.03	.17	45	.02	.11	40	.01
8	.75	15	.03	.16	45	.02	.11	40	.01
9	.68	15	.03	.16	40	.02	.11	40	.01
10	.60	15	.02	.15	40	.02	.11	40	.01
11	.58	15	.02	.14	35	.01	.11	40	.01
12	.54	315	.46	.14	30	.01	.11	40	.01
13	.50	200	.27	.14	35	.01	.11	40	.01
14	.47	150	.19	.14	40	.02	.11	40	.01
15	.44	130	.15	.13	40	.01	.11	40	.01
16	.41	110	.12	.13	45	.02	.10	40	.01
17	.39	100	.11	.13	50	.02	.10	35	.01
18	.37	90	.09	.12	50	.02	.10	35	.01
19	.35	80	.08	.12	45	.01	.10	30	.01
20	.33	110	.10	.12	40	.01	.10	30	.01
21	.32	140	.12	.12	35	.01	0	0	0
22	.30	160	.13	.12	30	.01	0	0	0
23	.29	170	.13	.12	25	.01	0	0	0
24	.28	180	.14	.12	25	.01	0	0	0
25	.27	200	.15	.11	20	.01	0	0	0
26	.26	210	.15	.11	25	.01	0	0	0
27	.24	180	.12	.11	30	.01	0	0	0
28	.23	140	.09	.11	35	.01	0	0	0
29	.23	110	.07	.11	40	.01	0	0	0
30	.22	80	.05	.11	45	.01	0	0	0
31	--	--	--	.11	55	.02	--	--	--
TOTAL	18.23	--	3.12	4.34	--	.48	2.15	--	.20

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

101231.21  
4312720.42 ✓

## SANTA CLARA RIVER BASIN

11114000 SANTA CLARA RIVER AT MONTALVO, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
OCT. 05...	1030	20.0	.35	8570	8.1	66	83	95	96	99
NOV. 15...	0830	14.5	133	900	323	50	72	87	96	99
15...	1330	16.0	70	597	113	50	70	87	95	99
18...	1015	12.0	9.4	282	7.2	50	65	76	87	94
JAN. 16...	1300	13.0	1.4	7790	29	32	40	49	63	77
18...	1600	12.0	3300	14100	126000	36	37	46	61	79
FEB. 06...	1230	12.0	2860	13400	103000	27	33	44	58	74
10...	1300	13.0	1150	33300	103000	21	26	35	48	64
11...	1330	12.0	20500	35400	1960000	19	23	33	45	60
MAR. 08...	1630	13.0	1000	996	2690	70	84	89	92	93
11...	1230	12.0	900	2020	4910	34	47	62	80	94
APR. 12...	1430	15.0	.50	314	.4	65	85	93	98	99

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT. 05...	99	--	100	--	--	--	--	--	--
NOV. 15...	--	100	--	--	--	--	--	--	--
15...	--	100	--	--	--	--	--	--	--
18...	--	97	--	99	--	100	--	--	--
JAN. 16...	93	--	99	--	100	--	--	--	--
18...	94	--	97	--	98	--	100	--	--
FEB. 06...	86	--	93	--	97	--	100	--	--
10...	--	75	--	90	--	96	--	99	100
11...	--	71	--	87	--	94	--	99	100
MAR. 08...	--	95	--	98	--	100	--	--	--
11...	99	--	100	--	--	--	--	--	--
APR. 12...	--	99	--	99	--	100	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (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	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
AUG. 10...	1200	3	.00	6	11	19	42	69	81	88	94	100

## 187

LOCATION.--Lat 34°21'08", long 119°18'27", in southeast corner of Santa Ana Grant, Ventura County, at gaging station 50 ft downstream from county road bridge at Foster Memorial Park, 0.2 mile downstream from Coyote Creek, and 5 miles north of Ventura.

PERIOD OF RECORD.--Chemical analyses: December 1907 to December 1908, October 1966 to September 1968, water years 1969-73 (partial-record station).  
Water temperatures: October 1968 to September 1969, October 1970 to September 1973.  
Sediment records: October 1968 to September 1973.

Sediment concentrations: Maximum daily, 12,300 mg/l Feb. 11; minimum daily, no flow for many days.  
Sediment discharge: Maximum daily, 319,000 tons Feb. 11; minimum daily, 0 tons on many days.

Sediment concentrations: Maximum daily, 32,000 mg/l (estimated) Jan. 25, 1969; minimum daily, no flow for many days each year.

Sediment discharge: Maximum daily, 2,220,000 tons (estimated) Jan. 25, 1969; minimum daily, 0 tons on many days each year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS PER AC-F-F)	HARD-NESS (CA+MG) (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
NOV. 27...	0815	1.8	273	56	718	.98	472	1120	7.3	11.5	0	7.0
JAN. 29...	0845	30	268	51	753	1.02	486	1050	7.7	9.0	3	10.2
APR. 23...	0830	20	271	46	781	1.06	474	950	7.9	14.5	2	11.3
JULY 23...	0730	7.5	250	42	715	.97	456	1000	7.7	18.0	1	9.3

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

[illegible]

## VENTURA RIVER BASIN

11118500 VENTURA RIVER NEAR VENTURA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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				0	0	0	1.1	3	.01
2				0	0	0	1.4	4	.02
3				0	0	0	1.5	5	.02
4				0	0	0	5.2	30	.42
5				0	0	0	3.4	30	.28
6				0	0	0	3.4	25	.23
7				0	0	0	4.0	40	.43
8				0	0	0	2.5	35	.24
9				0	0	0	2.2	30	.18
10				0	0	0	2.3	35	.22
11				0	0	0	2.5	40	.27
12				0	0	0	2.7	45	.33
13				0	0	0	2.6	45	.32
14				139	580	780	2.7	50	.36
15				2.8	70	.53	2.6	45	.32
16				79	380	120	2.7	45	.33
17				109	295	136	2.8	50	.38
18				6.6	25	.45	2.6	45	.32
19				2.5	3	.02	2.7	50	.36
20				1.4	2	.01	2.8	50	.38
21				.72	2	0	2.7	50	.36
22				.47	2	0	2.8	50	.38
23				.47	2	0	2.7	45	.33
24				.47	2	0	2.8	45	.34
25				.59	2	0	3.0	50	.41
26				1.0	3	.01	2.9	45	.35
27				1.0	3	.01	3.1	50	.42
28				1.0	2	.01	2.9	40	.31
29				.87	2	0	3.1	40	.33
30				.72	2	0	3.2	35	.30
31				--	--	--	3.4	35	.32
TOTAL	0	--	0	347.61	--	1037.04	86.3	--	9.27

DAY	JANUARY			FEBRUARY			MARCH		
	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	3.6	30	.29	7.4	7	.14	117	85	27
2	3.8	25	.26	7.2	6	.12	97	150	39
3	3.8	20	.21	30	23	1.8	87	70	16
4	4.1	20	.22	67	66	16	76	50	10
5	4.5	20	.24	45	5	.61	68	40	7.3
6	4.7	15	.19	999	2440	12300	90	160	39
7	4.1	10	.11	1250	2630	12800	89	65	16
8	4.0	10	.11	99	140	66	112	620	272
9	13	23	1.3	15	15	.61	84	45	10
10	5.5	30	.45	2010	4160	50600	73	35	6.9
11	4.5	25	.30	7130	12300	319000	111	480	196
12	4.0	20	.22	1890	1500	8660	86	50	12
13	3.8	15	.15	765	750	1550	78	40	8.4
14	3.6	10	.10	172	290	135	72	30	5.8
15	3.4	5	.05	98	60	16	67	20	3.6
16	373	1490	5220	72	50	9.7	64	10	1.7
17	60	460	137	62	45	7.5	62	6	1.0
18	2020	3340	73800	55	40	5.9	60	4	.65
19	188	465	379	50	35	4.7	58	2	.31
20	41	60	6.6	46	30	3.7	181	1730	2080
21	22	60	3.6	43	25	2.9	89	50	12
22	17	65	3.0	41	30	3.3	82	50	11
23	13	50	1.8	39	35	3.7	69	25	4.7
24	12	40	1.3	36	45	4.4	64	20	3.5
25	10	30	.81	34	10	.92	59	20	3.2
26	9.6	25	.65	33	5	.45	56	15	2.3
27	9.0	20	.49	216	680	1590	52	15	2.1
28	8.5	15	.34	251	1020	1010	50	10	1.4
29	8.2	15	.33	--	--	--	44	9	1.1
30	7.9	10	.21	--	--	--	39	8	.84
31	7.6	8	.16	--	--	--	36	7	.68
TOTAL	2877.2	--	79559.49	15562.6	--	407793.45	2372	--	2795.48

11118500 VENTURA RIVER NEAR VENTURA, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	33	7	.62	21	6	.34	13	5	.18
2	31	8	.67	22	7	.42	17	7	.32
3	27	8	.58	19	5	.26	18	8	.39
4	27	8	.58	19	5	.26	13	5	.18
5	27	8	.58	21	5	.28	15	6	.24
6	27	8	.58	20	4	.22	13	5	.18
7	27	9	.66	22	5	.30	10	5	.14
8	27	10	.73	24	6	.39	11	5	.15
9	27	11	.80	26	7	.49	10	5	.14
10	27	12	.87	22	4	.24	9.8	5	.13
11	27	13	.95	17	3	.14	9.3	5	.13
12	27	14	1.0	18	4	.19	11	5	.15
13	27	14	1.0	20	5	.27	14	6	.23
14	27	13	.95	18	4	.19	15	6	.24
15	27	12	.87	17	4	.18	15	6	.24
16	27	11	.80	19	5	.26	14	6	.23
17	27	10	.73	19	5	.26	15	6	.24
18	27	9	.66	15	4	.16	15	6	.24
19	27	9	.66	15	4	.16	16	6	.26
20	27	9	.66	16	4	.17	17	7	.32
21	26	8	.56	18	5	.24	11	5	.15
22	24	8	.52	17	5	.23	11	4	.12
23	25	8	.54	19	6	.31	14	5	.19
24	22	7	.42	19	6	.31	14	5	.19
25	17	6	.28	19	6	.31	10	4	.11
26	17	6	.28	19	6	.31	13	5	.18
27	21	7	.40	15	4	.16	10	4	.11
28	25	8	.54	15	4	.16	14	5	.19
29	23	8	.50	16	5	.22	9.8	4	.11
30	22	7	.42	15	4	.16	11	4	.12
31	--	--	--	11	4	.12	--	--	--
TOTAL	772	--	19.41	573	--	7.71	388.9	--	5.80

DAY	JULY			AUGUST			SEPTEMBER		
	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	12	4	.13	6.6	10	.18	7.0	7	.13
2	9.8	4	.11	6.2	10	.17	4.2	6	.07
3	12	4	.13	6.2	10	.17	9.8	8	.21
4	18	6	.29	6.2	10	.17	5.2	6	.08
5	14	4	.15	7.9	11	.23	9.8	7	.19
6	12	4	.13	6.2	10	.17	13	8	.28
7	16	11	.48	4.9	7	.09	14	8	.30
8	15	9	.36	4.2	5	.06	14	8	.30
9	12	9	.29	3.9	4	.04	13	7	.25
10	10	8	.22	3.9	4	.04	12	6	.19
11	12	10	.32	3.3	3	.03	12	6	.19
12	12	11	.36	3.3	3	.03	11	5	.15
13	10	10	.27	8.8	7	.17	11	5	.15
14	11	10	.30	10	8	.22	12	5	.16
15	11	10	.30	8.4	7	.16	10	4	.11
16	9.8	9	.24	7.5	5	.10	11	5	.15
17	13	11	.39	7.5	5	.10	10	4	.11
18	11	10	.30	7.5	5	.10	12	5	.16
19	9.8	9	.24	7.0	5	.09	11	5	.15
20	11	10	.30	5.9	4	.06	8.8	4	.10
21	11	9	.27	4.9	4	.05	7.9	4	.09
22	11	8	.24	6.6	5	.09	9.3	5	.13
23	11	7	.21	6.6	5	.09	9.3	5	.13
24	10	6	.16	6.2	5	.08	8.8	5	.12
25	10	5	.14	5.5	5	.07	7.9	5	.11
26	9.8	5	.13	3.6	5	.05	8.8	5	.12
27	8.4	4	.09	3.6	6	.06	4.5	4	.05
28	11	10	.30	3.6	6	.06	2.0	3	.02
29	12	11	.36	3.6	6	.06	3.6	4	.04
30	10	10	.27	3.6	6	.06	3.3	4	.04
31	8.4	10	.23	3.6	6	.06	--	--	--
TOTAL	354.0	--	7.71	176.8	--	3.11	276.2	--	4.28

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

23786.61

491242.75

## VENTURA RIVER BASIN

11118500 VENTURA RIVER NEAR VENTURA, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
14...	1200	15.0	470	1520	1930	55	72	86	93	95
14...	1600	15.0	50	814	110	76	85	96	97	100
16...	0800	13.0	136	466	171	70	87	95	99	100
JAN.										
18...	1600	10.0	14200	22600	866000	22	28	32	46	63
20...	0800	7.0	34	21	1.9	--	--	--	--	--
FEB.										
06...	1200	13.0	553	3220	4810	36	43	55	68	80
07...	0800	10.0	1770	1800	8600	28	33	46	60	74
07...	1200	15.0	1190	2220	7130	30	39	55	66	78
10...	1600	12.0	3410	10700	98500	20	27	38	49	67
11...	0810	11.0	9830	18500	491000	19	20	23	36	48
11...	1215	12.0	6450	8980	156000	24	28	34	46	60
28...	0800	12.0	239	1170	755	36	50	65	78	88

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.										
14...	--	100	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
JAN.										
18...	80	--	95	--	99	--	100	--	--	--
20...	--	99	--	100	--	--	--	--	--	--
FEB.										
06...	90	--	95	--	98	--	100	--	--	--
07...	86	--	96	--	99	--	100	--	--	--
07...	85	--	94	--	98	--	99	--	100	--
10...	82	--	94	--	98	--	99	--	100	--
11...	--	56	--	75	--	91	--	98	--	100
11...	71	--	88	--	97	--	99	--	100	--
28...	95	--	97	--	99	--	100	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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
SEP. 18...	0900	3	12	3	7	21	36
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
SEP. 18...		47	56	65	75	93	100



## 191

[illegible]

11141150 ARROYO GRANDE ABOVE PHOENIX CREEK, NEAR ARROYO GRANDE, CALIF.--Continued

## TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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	.32	2	0	.87	1	0	.88	1	0
2	.32	2	0	.87	1	0	1.0	1	0
3	.34	3	0	.87	1	0	1.0	1	0
4	.33	4	0	1.3	1	0	1.5	10	.05
5	.25	4	0	.87	1	0	1.1	2	.01
6	.20	3	0	.87	1	0	2.0	17	.14
7	.24	3	0	1.3	1	0	1.7	9	.04
8	.31	2	0	.93	1	0	1.3	10	.04
9	.31	2	0	.87	1	0	1.2	6	.02
10	.46	2	0	1.2	6	.02	1.0	4	.01
11	.40	3	0	1.9	15	.09	1.0	4	.01
12	.50	4	.01	.95	2	.01	.99	4	.01
13	.40	2	0	.87	1	0	.87	7	.02
14	.40	1	0	2.9	23	.25	.87	14	.03
15	1.0	6	.02	1.4	6	.03	.87	7	.02
16	1.2	4	.01	1.8	6	.03	.87	11	.03
17	.61	2	0	1.4	4	.02	.87	8	.02
18	.50	1	0	1.0	3	.01	.87	4	.01
19	.50	1	0	1.0	3	.01	.87	3	.01
20	.50	1	0	.99	3	.01	1.0	3	.01
21	.61	1	0	1.0	2	.01	1.0	4	.01
22	.61	1	0	.83	2	0	1.0	4	.01
23	.61	1	0	.81	2	0	1.0	4	.01
24	.61	1	0	.87	2	0	1.0	4	.01
25	.61	1	0	.84	1	0	.99	4	.01
26	.61	1	0	1.0	2	.01	1.0	5	.01
27	.61	1	0	1.0	2	.01	1.0	5	.01
28	.61	1	0	.99	3	.01	1.0	6	.02
29	.61	1	0	.99	2	.01	.87	6	.01
30	.61	1	0	.99	1	0	.87	7	.02
31	.61	1	0	--	--	--	.87	6	.01
TOTAL	15.80	--	.04	33.48	--	.53	32.36	--	.61

DAY	JANUARY			FEBRUARY			MARCH		
	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	.87	5	.01	1.2	80	.26	6.1	315	5.2
2	.87	4	.01	1.2	62	.20	4.9	180	2.4
3	1.0	3	.01	1.3	85	.37	4.6	149	1.9
4	1.0	2	.01	1.7	305	1.4	4.6	270	3.4
5	.85	2	0	1.2	74	.26	3.9	120	1.3
6	.88	2	0	3.1	826	9.2	4.6	143	1.9
7	.87	6	.01	2.8	850	6.4	4.2	140	1.6
8	1.3	10	.04	2.0	710	3.8	5.8	343	5.6
9	2.8	33	.28	1.7	610	2.8	4.6	160	2.0
10	1.8	13	.08	7.0	947	19	4.2	100	1.1
11	1.2	7	.02	14	1830	76	5.8	231	4.1
12	1.2	6	.02	8.8	1050	26	4.6	60	.75
13	1.0	6	.02	9.4	1380	35	4.2	50	.57
14	1.0	5	.01	7.3	1270	25	4.2	45	.51
15	1.2	4	.01	6.1	970	16	3.9	50	.53
16	3.9	144	2.7	5.2	870	12	3.9	55	.58
17	2.6	27	.22	4.6	770	9.6	3.9	60	.63
18	9.4	1010	38	4.2	720	8.2	3.9	60	.63
19	4.6	316	4.7	3.9	510	5.4	4.6	333	6.4
20	2.8	44	.33	3.5	420	4.0	12	999	33
21	2.6	30	.21	3.3	330	2.9	9.1	905	22
22	2.0	30	.16	3.3	275	2.5	8.5	370	8.5
23	2.0	28	.15	3.2	220	1.9	7.3	290	5.7
24	1.7	24	.11	3.6	578	6.0	6.7	220	4.0
25	1.7	25	.11	3.2	315	2.7	6.4	145	2.5
26	1.3	43	.15	4.2	444	6.7	6.1	90	1.5
27	1.2	90	.29	6.4	986	19	6.1	71	1.2
28	1.2	150	.49	10	1000	31	5.5	65	.97
29	1.3	170	.60	--	--	--	5.5	61	.91
30	1.3	188	.68	--	--	--	5.2	54	.76
31	1.2	120	.39	--	--	--	5.1	49	.67
TOTAL	58.64	--	49.82	127.4	--	333.59	170.0	--	122.81

11141150 ARROYO GRANDE ABOVE PHOENIX CREEK, NEAR ARROYO GRANDE, CALIF.--Continued

## TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	4.9	41	.54	2.8	14	.11	2.7	150	1.1
2	4.9	36	.48	2.8	17	.13	2.7	130	.95
3	4.8	33	.43	3.1	22	.18	2.7	120	.87
4	4.8	40	.52	2.8	55	.42	2.8	110	.83
5	4.7	48	.61	2.8	75	.57	2.8	92	.70
6	4.6	57	.71	2.8	75	.57	2.8	75	.57
7	4.6	63	.78	2.8	42	.32	2.8	58	.44
8	4.2	70	.79	2.8	65	.49	2.8	38	.29
9	4.5	86	1.0	3.1	165	1.4	3.0	19	.15
10	4.5	97	1.2	2.8	155	1.2	3.2	12	.10
11	4.2	79	.90	2.9	138	1.1	3.3	10	.09
12	4.2	60	.68	2.9	120	.94	3.3	8	.07
13	3.9	54	.57	2.9	100	.78	3.3	7	.06
14	3.9	54	.57	3.0	95	.77	3.3	7	.06
15	3.7	53	.53	3.1	115	.96	3.3	9	.08
16	3.7	52	.52	3.0	185	1.5	3.4	11	.10
17	3.7	46	.46	3.0	142	1.2	3.3	14	.12
18	3.5	36	.34	3.0	62	.50	3.3	21	.19
19	3.5	23	.22	3.0	10	.08	3.0	53	.43
20	3.3	21	.19	3.0	7	.06	3.3	90	.80
21	3.3	20	.18	3.1	8	.07	3.1	125	1.0
22	3.1	17	.14	3.2	9	.08	2.9	118	.92
23	3.1	13	.11	3.2	21	.18	2.8	95	.72
24	3.1	16	.13	3.1	50	.42	2.5	59	.40
25	3.1	17	.14	3.2	160	1.4	2.5	28	.19
26	3.3	14	.12	3.3	187	1.7	2.3	20	.12
27	3.1	11	.09	3.4	172	1.6	2.1	30	.17
28	3.3	8	.07	3.0	150	1.2	2.0	61	.33
29	3.1	8	.07	2.2	146	.87	2.0	113	.61
30	3.1	11	.09	2.3	145	.90	1.9	140	.72
31	--	--	--	2.6	153	1.1	--	--	--
TOTAL	115.7	--	13.18	91.0	--	22.80	85.2	--	13.18

DAY	JULY			AUGUST			SEPTEMBER		
	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	1.9	98	.50	1.2	20	.06	.72	8	.02
2	2.1	16	.09	1.6	20	.09	1.8	15	.12
3	1.9	6	.03	1.2	14	.05	.86	11	.03
4	1.7	10	.05	1.0	10	.03	.81	10	.02
5	1.6	13	.06	1.1	8	.02	1.2	12	.04
6	1.6	14	.06	1.7	14	.08	.70	14	.07
7	1.6	14	.06	1.3	11	.04	.69	7	.01
8	1.5	13	.05	1.5	11	.04	.68	6	.01
9	1.5	11	.04	1.1	5	.01	.68	5	.01
10	1.6	10	.04	1.3	6	.02	.78	4	.01
11	1.7	10	.05	1.3	14	.05	.83	3	.01
12	1.7	10	.05	1.2	9	.03	.66	3	.01
13	1.7	10	.05	1.6	7	.04	.66	3	.01
14	1.1	15	.04	1.1	3	.01	.70	3	.01
15	1.1	9	.03	2.0	7	.06	1.4	15	.06
16	1.0	11	.03	1.2	9	.02	1.5	10	.04
17	.94	12	.03	1.0	6	.02	1.4	10	.04
18	.94	11	.03	.94	5	.01	1.0	8	.02
19	1.3	18	.07	.96	4	.01	1.0	8	.02
20	1.5	27	.11	.93	3	.01	.71	8	.02
21	1.8	27	.12	1.2	6	.02	.86	7	.02
22	1.6	18	.08	1.0	8	.02	.82	7	.02
23	1.0	16	.04	1.0	8	.02	.82	7	.02
24	1.1	14	.04	.99	8	.02	1.1	7	.02
25	1.2	12	.04	1.0	4	.01	1.9	14	.08
26	1.2	11	.04	.87	3	.01	1.3	15	.06
27	1.2	7	.02	1.1	4	.01	1.2	13	.05
28	1.2	4	.01	.74	6	.01	1.3	11	.04
29	.94	4	.01	.70	6	.01	1.3	12	.04
30	.95	4	.01	.70	7	.01	1.0	10	.03
31	1.0	9	.02	.72	8	.02	--	--	--
TOTAL	43.17	--	1.90	35.25	--	.86	30.38	--	.96

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL-SEDIMENT DISCHARGE FOR YEAR (TONS)

838.38

560.28

## ARROYO GRANDE BASIN

11141150 ARROYO GRANDE ABOVE PHOENIX CREEK, NEAR ARROYO GRANDE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDI- MENT (MG/L)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM
FEB. 10...	1330	14.0	8.8	743	18	21	26	29	32
11...	1020	12.0	16	2070	89	41	48	56	62
MAY 08...	1025	19.5	2.8	22	.17	--	--	--	--

DATE	TIME	TOTAL SED. FALL DIAM. % FINER THAN .031 MM	TOTAL SED. FALL DIAM. % FINER THAN .062 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .062 MM	TOTAL SED. FALL DIAM. % FINER THAN .125 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .125 MM	TOTAL SED. FALL DIAM. % FINER THAN .250 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .250 MM	TOTAL SED. FALL DIAM. % FINER THAN .500 MM	TOTAL SED. FALL DIAM. % FINER THAN 1.00 MM
FEB. 10...	38	43	--	57	--	91	--	99	100	--
11...	70	79	--	90	--	99	--	100	--	--
MAY 08...	--	--	66	--	72	--	100	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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	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
OCT. 26...	1130	2	.61	1	4	18	62	86	91	94	100

## BIG SUR RIVER BASIN

195

## 11143000 BIG SUR RIVER NEAR BIG SUR, CALIF.

LOCATION.--Lat 36°14'45", long 121°46'20", in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.29, T.19 S., R.2 E., Monterey County, temperature recorder at gaging station on right bank at downstream side of bridge, 0.4 mile upstream from Post Creek, and 2.6 miles southeast of town of Big Sur.

DRAINAGE AREA.--46.5 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1973.

## EXTREMES.--1972-73:

Water temperatures: Maximum, 20.0°C June 26; minimum, 5.5°C Jan. 7.

Period of record:

Water temperatures: Maximum (1965-67, 1968-73), 21.0°C Aug. 9-11, 1971; minimum (1965-66, 1967-73), 5.0°C Dec. 15, 1967.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.0	10.5	10.0	9.0	8.5	8.0	7.5	11.0	10.0	13.0	12.0
2	16.0	16.0	11.0	10.5	8.5	8.0	8.0	7.5	11.0	10.5	13.0	11.5
3	16.0	15.0	11.0	10.5	9.0	8.0	8.0	7.5	11.5	11.0	12.0	11.5
4	16.0	16.0	12.5	11.0	9.5	9.0	8.0	7.5	12.0	11.5	12.0	11.5
5	16.0	16.0	12.5	11.5	9.5	8.5	7.5	6.5	12.0	11.0	12.0	11.0
6	16.0	15.5	11.5	10.5	9.5	8.5	6.5	6.0	12.0	12.0	12.0	11.5
7	16.0	15.0	11.5	11.0	9.5	9.0	6.0	5.5	12.5	12.0	12.0	11.0
8	16.5	16.0	11.5	10.5	9.0	8.0	8.0	6.0	12.5	12.0	12.0	11.5
9	16.5	16.5	10.5	9.5	8.0	6.5	10.0	8.0	12.5	12.0	12.0	11.0
10	16.5	16.5	11.0	10.0	7.0	6.5	10.5	10.0	12.5	12.0	12.5	11.5
11	16.5	16.0	11.0	10.5	7.0	6.5	11.5	10.5	12.5	12.0	12.5	11.5
12	16.5	16.0	10.5	10.0	6.5	6.0	12.0	11.5	12.0	12.0	11.5	11.0
13	16.0	15.5	11.5	10.0	6.5	6.0	12.0	10.5	12.5	12.0	11.5	11.0
14	16.0	15.5	12.0	11.5	6.5	6.0	11.0	10.0	12.5	12.0	11.0	10.5
15	15.5	15.0	12.0	12.0	7.5	6.5	11.0	10.5	12.0	11.5	11.5	10.0
16	15.0	14.5	12.0	11.5	8.5	7.5	12.0	11.0	12.5	11.5	11.5	10.5
17	15.0	14.5	11.5	11.0	10.0	8.5	12.0	11.5	12.5	11.5	11.5	11.0
18	15.0	14.0	11.0	10.5	10.5	10.0	12.0	12.0	12.0	11.0	11.0	10.0
19	14.5	13.5	11.0	10.5	11.5	10.5	12.0	11.0	12.5	11.0	11.0	10.0
20	14.5	14.0	11.0	10.0	11.5	11.5	11.0	10.5	12.0	11.0	11.0	10.5
21	15.0	14.0	11.0	10.0	11.5	11.0	11.5	11.0	12.5	11.5	11.0	10.5
22	14.0	13.5	10.5	10.0	12.0	11.5	11.5	10.5	12.0	11.0	11.5	10.5
23	14.0	13.5	10.0	10.0	12.0	10.5	11.0	10.0	12.0	11.0	12.0	10.5
24	14.0	13.5	10.0	9.5	11.0	10.0	11.0	9.5	13.0	12.5	12.5	11.0
25	14.0	13.0	11.5	10.0	10.5	10.0	11.5	11.0	12.5	12.0	12.5	11.5
26	13.5	12.0	11.0	11.0	10.0	9.5	11.0	9.5	13.0	12.5	12.0	11.5
27	13.5	12.5	12.0	11.0	10.0	9.5	10.0	9.0	13.0	12.5	12.0	11.5
28	13.0	12.0	11.5	10.5	10.0	9.5	10.0	9.0	13.0	12.5	12.0	11.0
29	12.5	11.5	12.0	10.0	9.5	8.5	11.0	10.0	---	---	11.5	10.5
30	11.5	10.0	10.0	9.0	8.5	7.5	11.0	11.0	---	---	12.0	11.0
31	10.5	9.0	---	---	8.0	7.5	11.0	10.5	---	---	12.5	12.0
MONTH	17.0	9.0	12.5	9.0	12.0	6.0	12.0	5.5	13.0	10.0	13.0	10.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.0	13.0	12.0	15.5	15.0	18.0	15.5	19.0	17.5	16.0	15.0
2	11.5	10.5	13.5	12.0	16.0	14.5	17.5	16.0	19.0	17.5	15.5	14.5
3	12.0	10.5	14.0	13.0	15.5	15.0	18.0	16.5	18.0	17.0	15.5	15.0
4	12.5	11.0	14.0	13.0	16.0	15.0	19.0	17.0	18.0	16.5	15.5	15.0
5	13.0	11.5	13.5	12.0	16.0	15.0	19.0	18.0	18.0	17.0	15.5	14.5
6	13.0	11.5	13.5	12.0	18.0	16.0	19.0	17.0	17.0	16.5	15.5	14.5
7	13.5	12.5	14.0	12.5	18.5	17.0	18.0	16.5	17.0	16.0	16.0	14.5
8	13.5	12.0	14.0	12.5	18.5	17.0	18.0	16.0	17.0	16.0	16.0	15.0
9	13.0	12.0	14.5	13.0	18.5	17.5	19.0	17.0	17.0	16.0	16.0	15.0
10	14.0	12.5	14.5	13.5	18.0	16.5	19.0	17.5	17.5	16.0	16.0	15.5
11	14.0	13.0	15.5	14.5	16.5	15.5	18.0	16.5	18.0	17.0	16.5	15.5
12	14.0	12.5	15.0	14.0	17.0	15.0	18.0	16.5	17.5	16.0	16.5	15.5
13	13.5	12.5	15.0	14.0	17.0	15.5	18.0	16.5	17.0	16.0	16.0	15.5
14	12.5	12.0	15.0	14.0	15.5	14.0	18.0	16.5	16.5	15.5	15.5	14.5
15	12.5	11.5	15.0	14.0	15.0	13.5	18.5	16.5	17.0	16.0	15.5	15.0
16	13.0	11.5	16.5	14.5	16.0	14.0	18.5	17.5	17.0	16.0	15.0	14.5
17	13.0	12.5	16.5	15.5	16.0	14.0	18.5	17.0	17.0	16.0	15.0	14.0
18	12.5	11.0	16.5	15.5	16.5	14.5	18.0	16.5	17.0	16.0	15.5	14.5
19	12.5	11.5	15.5	14.5	18.0	15.5	17.5	16.0	16.5	15.5	15.5	15.0
20	12.0	11.0	15.0	14.0	18.5	16.5	17.5	16.0	16.5	15.5	16.0	15.5
21	12.5	11.0	14.5	13.5	18.0	16.5	17.5	16.0	16.5	15.5	16.5	15.5
22	13.5	11.5	15.0	13.5	18.0	16.5	17.0	15.5	16.5	15.0	15.5	15.0
23	13.5	12.5	15.5	14.0	17.5	16.0	17.0	15.5	16.0	15.0	15.5	15.5
24	14.0	12.5	15.5	15.0	18.0	16.5	18.0	16.0	16.0	15.0	15.5	14.5
25	14.5	13.0	16.0	14.0	19.0	17.0	18.5	17.0	16.5	15.5	15.5	14.5
26	14.5	13.5	15.0	13.5	20.0	18.5	19.0	17.5	16.0	15.0	15.5	14.5
27	14.5	13.5	16.0	14.0	19.5	18.5	19.0	17.0	15.5	14.5	15.0	14.5
28	14.5	13.5	17.0	15.5	19.5	17.5	18.0	16.5	16.0	15.0	15.0	14.0
29	13.5	12.5	17.5	16.0	19.0	17.5	17.5	16.5	16.5	15.5	15.0	14.0
30	13.0	12.0	16.5	15.5	18.5	16.5	18.0	16.5	16.0	15.0	15.0	14.0
31	---	---	15.5	15.0	---	---	18.5	16.5	16.0	15.0	---	---
MONTH	14.5	10.5	17.5	12.0	20.0	13.5	19.0	15.5	19.0	14.5	16.5	14.0

LOCATION.--Lat 35°31'26", long 120°45'54", in Asuncion Grant, San Luis Obispo County, at gaging station 1.6 miles upstream from mouth, and 4 miles west of Templeton.

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1973 (discontinued).  
Sediment records: October 1967 to September 1973 (discontinued).

Sediment concentrations: Maximum daily, 2,750 mg/l Jan. 16; minimum daily, no flow for many days.  
Sediment discharge: Maximum daily, 15,600 tons Jan. 18; minimum daily, 0 tons on many days.

Sediment concentrations: Maximum daily, 5,470 mg/l Jan. 19, 1969; minimum daily, no flow for many days each year.

REMARKS.--No flow Oct. 1 to Nov. 13, July 10 to Sept. 30.

[illegible]

11147070 SANTA RITA CREEK NEAR TEMPLETON, CALIF.--Continued

TOTAL--SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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				0	0	0	.75	5	.01
2				0	0	0	.75	6	.01
3				0	0	0	.75	4	.01
4				0	0	0	16	97	5.5
5				0	0	0	4.5	54	.66
6				0	0	0	11	59	2.3
7				0	0	0	19	92	4.7
8				0	0	0	20	84	4.5
9				0	0	0	10	61	1.6
10				0	0	0	7.2	48	.93
11				0	0	0	5.6	43	.65
12				0	0	0	4.8	47	.61
13				0	0	0	4.2	44	.50
14				59	259	65	3.8	32	.33
15				79	233	68	3.3	22	.20
16				67	165	45	3.1	15	.13
17				32	96	9.8	3.1	10	.08
18				9.7	42	1.1	2.9	11	.09
19				5.0	25	.34	2.7	12	.09
20				3.5	15	.14	2.5	11	.07
21				2.5	10	.07	2.5	9	.06
22				1.9	8	.04	2.5	9	.06
23				1.5	5	.02	2.7	9	.07
24				1.4	4	.02	2.3	7	.04
25				1.0	3	.01	2.1	6	.03
26				.89	3	.01	2.1	5	.03
27				.89	2	0	2.1	5	.03
28				.75	2	0	1.9	5	.03
29				.62	2	0	1.7	6	.03
30				.75	4	.01	1.5	7	.03
31				--	--	--	1.5	8	.03
TOTAL	0	--	0	267.40	--	189.56	148.85	--	23.41

DAY	JANUARY			FEBRUARY			MARCH		
	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	1.7	9	.04	25	27	1.8	138	393	146
2	1.7	10	.05	22	34	2.0	95	271	69
3	1.7	9	.04	20	42	2.3	78	226	48
4	1.5	8	.03	23	36	2.2	72	214	41
5	1.4	10	.04	21	29	1.6	57	184	29
6	1.4	12	.05	156	485	293	138	395	230
7	1.4	11	.04	278	791	608	88	298	70
8	4.5	18	.64	132	426	152	112	308	106
9	178	1360	703	85	267	61	72	178	34
10	89	151	49	605	2110	5250	58	116	18
11	34	23	2.1	654	1740	4850	103	282	86
12	21	35	2.0	336	856	1240	71	175	33
13	15	24	.97	303	1140	990	54	86	12
14	12	16	.52	198	932	510	46	41	5.1
15	10	11	.30	115	728	226	41	25	2.8
16	476	2750	7220	80	483	104	37	17	1.7
17	125	658	274	59	310	49	34	12	1.1
18	1300	2610	15600	47	205	26	31	10	.84
19	210	692	433	39	86	9.0	88	230	327
20	100	398	107	33	26	2.3	303	874	1050
21	62	194	32	28	17	1.3	209	547	405
22	41	69	7.7	24	10	.65	140	180	68
23	29	35	2.7	22	10	.59	91	85	21
24	25	25	1.7	36	71	8.4	69	68	13
25	23	32	2.0	23	47	2.9	57	59	9.1
26	19	40	2.1	53	283	74	50	57	7.7
27	16	50	2.2	283	676	622	43	42	4.8
28	14	55	2.1	451	1100	1680	38	34	3.5
29	29	89	9.7	--	--	--	33	28	2.5
30	48	126	18	--	--	--	29	26	2.0
31	30	46	3.7	--	--	--	26	20	1.4
TOTAL	2921.3	--	24476.72	4151	--	16770.04	2501	--	2848.54

## SALINAS RIVER BASIN

11147070 SANTA RITA CREEK NEAR TEMPLETON, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	23	15	.93	3.0	1	.01	1.3	6	.02
2	25	36	2.4	3.0	5	.04	1.3	11	.04
3	21	54	3.1	2.9	9	.07	1.2	9	.03
4	13	39	1.4	2.8	6	.05	1.2	8	.03
5	11	29	.86	2.8	3	.02	1.2	5	.02
6	10	18	.49	2.7	3	.02	1.1	2	.01
7	9.1	10	.25	2.7	3	.02	1.1	1	0
8	8.2	8	.18	2.6	5	.04	1.0	1	0
9	7.8	6	.13	2.6	7	.05	.95	1	0
10	7.3	4	.08	2.5	1	.01	.90	1	0
11	6.1	3	.05	2.3	6	.04	.84	1	0
12	6.0	4	.06	2.3	5	.03	.76	1	0
13	5.7	4	.06	2.3	4	.02	.73	1	0
14	5.4	4	.06	2.3	4	.02	.70	1	0
15	5.2	4	.06	2.3	3	.02	.66	1	0
16	5.0	4	.05	2.3	6	.04	.61	1	0
17	4.8	4	.05	2.2	9	.05	.56	1	0
18	4.6	4	.05	2.2	7	.04	.52	1	0
19	4.5	4	.05	2.2	5	.03	.48	1	0
20	4.3	4	.05	2.1	3	.02	.45	1	0
21	4.1	5	.06	2.1	2	.01	.41	1	0
22	3.9	4	.04	2.1	2	.01	.38	1	0
23	3.8	4	.04	2.1	2	.01	.35	1	0
24	3.7	3	.03	2.0	2	.01	.32	1	0
25	3.6	2	.02	2.0	2	.01	.31	1	0
26	3.5	2	.02	1.9	2	.01	.29	1	0
27	3.4	3	.03	1.8	2	.01	.28	1	0
28	3.3	2	.02	1.7	2	.01	.24	1	0
29	3.2	2	.02	1.6	1	0	.23	1	0
30	3.1	1	.01	1.5	1	0	.22	1	0
31	--	--	--	1.4	2	.01	--	--	--
TOTAL	222.6	--	10.65	70.3	--	.73	20.59	--	.15

DAY	JULY			AUGUST			SEPTEMBER		
	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	.20	1	0						
2	.18	1	0						
3	.17	1	0						
4	.16	1	0						
5	.14	1	0						
6	.13	1	0						
7	.12	1	0						
8	.09	1	0						
9	.08	1	0						
10	0	0	0						
11	0	0	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	0	0	0						
22	0	0	0						
23	0	0	0						
24	0	0	0						
25	0	0	0						
26	0	0	0						
27	0	0	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	0	0	0						
TOTAL	1.27	--	0	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL-SEDIMENT DISCHARGE FOR YEAR (TONS)

10304.31  
44319.80



## SALINAS RIVER BASIN

199

11147070 SANTA RITA CREEK NEAR TEMPLETON, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDI- MENT (MG/L)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM
NOV. 16...	1200	11.0	42	107	12	--	--
JAN. 09...	1255	7.5	152	1210	497	56	72
09...	1310	9.0	161	1250	543	--	--
10...	1515	8.5	65	78	14	--	--

DATE	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM	TOTAL SED. FALL DIAM. % FINER THAN .062 MM	TOTAL SED. FALL DIAM. % FINER THAN .125 MM	TOTAL SED. FALL DIAM. % FINER THAN .250 MM	TOTAL SED. FALL DIAM. % FINER THAN .500 MM
NOV. 16...	--	--	--	99	99	100	--
JAN. 09...	84	91	98	99	99	100	--
09...	--	--	--	98	98	99	100
10...	--	--	--	98	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
JAN. 16...	1245	10.0	1020	6010	16600	25	34	44	59
16...	1255	10.0	1250	3560	12000	30	40	48	58
16...	1515	10.0	1840	6420	31900	15	23	34	49
18...	1205	10.0	3280	3770	33400	19	26	33	40
22...	1450	8.0	36	55	5.3	--	--	--	--
FEB. 07...	1300	--	341	619	570	37	48	56	66
28...	1530	12.5	269	544	395	28	36	44	52

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
JAN. 16...	80	87	--	94	--	97	99	100
16...	69	81	--	92	--	99	100	--
16...	62	77	--	89	--	97	99	100
18...	48	58	--	71	--	87	99	100
22...	--	--	99	--	100	--	--	--
FEB. 07...	74	83	--	88	--	95	98	100
28...	60	65	--	74	--	85	98	100

## SALINAS RIVER BASIN

11147070 SANTA RITA CREEK NEAR TEMPLETON, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
DEC. 04...	1530	9.0	--	15	18	.00		
JAN. 22...	1430	8.0	19	37	20	3.3	9	51
FEB. 20...	1330	12.5	--	35	22	.00		
28...	1540	12.5	3	266	31	226	1	8
MAR. 15...	1300	10.5	17	42	18	.10	6	79
APR. 03...	1400	14.5	--	16	17	.00		

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
JAN. 22...	1430	8.0	19	37	20	3.3	9	51
FEB. 28...	1540	12.5	3	266	31	226	1	8
MAR. 15...	1300	10.5	17	42	18	.10	6	79

DATE	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. 22...	72	83	90	100	--	--	--
FEB. 28...	15	25	47	73	92	98	100
MAR. 15...	94	100	--	--	--	--	--

## 201

LOCATION.--Lat 35°47'19", long 121°05'34", in SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.3, T.25 S., R.8 E., San Luis Obispo County, at gaging station just downstream from Sapaque Creek, 1.4 miles south of Bryson.

Sediment records: October 1971 to September 1973

Published as sta 11148800 "near Bryson" in 1958-59, 1960-64, 1965-71.

Sediment concentrations: Maximum daily, 1,270 mg/l Jan. 18; minimum daily, no flow for many days.

Sediment discharge: Maximum daily, 46,700 tons Jan. 18; minimum daily, 0 tons on many days.

Sediment concentrations: Maximum daily, 1,270 mg/l Jan. 18, 1973; minimum daily, no flow for many days each year.

Sediment discharge: Maximum daily, 46,700 tons Jan. 18, 1973; minimum daily, 0 tons on many days each year.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

[illegible]

## SALINAS RIVER BASIN

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	0	0	0	1.2	3	.01	45	2	.24
2	0	0	0	1.2	3	.01	42	2	.23
3	0	0	0	1.4	2	.01	40	2	.22
4	0	0	0	3.8	7	.07	50	2	.27
5	0	0	0	14	20	1.0	55	2	.30
6	0	0	0	12	12	.39	66	2	.36
7	0	0	0	10	7	.19	91	7	1.7
8	0	0	0	9.3	6	.15	88	6	1.4
9	0	0	0	9.3	5	.13	79	5	1.1
10	0	0	0	54	19	10	72	4	.78
11	0	0	0	384	60	71	66	14	2.5
12	0	0	0	132	6	2.1	60	6	.97
13	0	0	0	333	26	125	57	3	.46
14	0	0	0	4450	333	4620	52	3	.42
15	0	0	0	1980	135	869	49	2	.26
16	0	0	0	1670	75	416	47	2	.25
17	13	13	2.3	1370	133	571	49	3	.40
18	39	23	4.4	538	48	58	52	4	.56
19	29	43	3.5	321	20	17	47	4	.51
20	14	38	1.4	215	8	4.6	47	4	.51
21	8.8	15	.36	159	4	1.7	44	4	.48
22	6.4	13	.22	132	2	.71	43	4	.46
23	5.0	14	.19	109	2	.59	44	4	.48
24	4.0	15	.16	93	2	.50	41	4	.44
25	3.2	12	.10	80	2	.43	39	4	.42
26	2.4	5	.03	72	2	.39	37	4	.40
27	2.0	4	.02	65	2	.35	36	4	.39
28	1.6	4	.02	57	2	.31	35	4	.38
29	1.2	4	.01	52	2	.28	33	4	.36
30	1.0	3	.01	48	2	.26	31	3	.25
31	1.2	3	.01	--	--	--	30	3	.24
TOTAL	151.8	--	12.73	12376.2	--	6771.18	1567	--	17.74
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	29	3	.23	526	19	27	1840	80	397
2	29	3	.23	434	13	15	1100	75	223
3	29	3	.23	585	39	98	830	65	146
4	28	3	.23	1290	118	435	776	55	115
5	27	2	.15	760	37	76	620	50	84
6	26	2	.14	3930	382	5130	920	122	369
7	25	2	.14	3160	130	1110	788	30	64
8	93	29	.49	1370	30	111	758	26	57
9	2490	232	1600	950	39	117	595	5	8.0
10	1320	71	314	5950	483	10100	510	3	4.1
11	530	10	.14	7350	564	13700	495	2	2.7
12	348	4	.38	3600	301	4700	436	3	3.5
13	267	3	2.2	3840	180	2410	372	4	4.0
14	210	2	1.1	1950	61	340	336	5	4.5
15	169	1	.46	1300	15	53	299	7	5.7
16	7690	1120	43300	908	10	25	278	6	4.5
17	2400	516	3790	690	8	15	260	5	3.5
18	10000	1270	46700	555	6	9.0	244	4	2.6
19	2560	415	2870	455	5	6.1	388	28	130
20	1060	200	572	376	4	4.1	1820	49	318
21	675	40	164	316	3	2.6	962	49	139
22	462	13	16	268	2	1.4	848	18	41
23	374	10	10	229	2	1.2	630	6	10
24	321	6	5.2	992	203	703	510	5	6.9
25	300	3	2.4	620	55	92	432	4	4.7
26	258	3	2.1	1300	204	1380	392	2	2.1
27	215	2	1.2	7660	481	13700	352	2	1.9
28	192	2	1.0	6240	260	5560	310	2	1.7
29	416	28	60	--	--	--	282	2	1.5
30	1710	143	719	--	--	--	264	2	1.4
31	775	48	100	--	--	--	244	2	1.3
TOTAL	35028	--	100294.81	57604	--	59921.4	18891	--	2157.6

## SALINAS RIVER BASIN

203

11143900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	223	2	1.2	48	1	.13	15	1	.04
2	208	2	1.1	46	1	.12	15	1	.04
3	193	2	1.0	45	1	.12	14	1	.04
4	175	2	.95	44	1	.12	13	1	.04
5	166	2	.90	42	1	.11	12	1	.03
6	155	2	.84	40	1	.11	12	1	.03
7	148	2	.80	38	1	.10	10	1	.03
8	135	2	.73	37	1	.10	8.4	1	.02
9	127	2	.69	36	1	.10	7.0	1	.02
10	127	2	.69	35	1	.09	6.3	1	.02
11	119	1	.32	33	1	.09	6.0	1	.02
12	111	1	.30	32	1	.09	6.0	1	.02
13	109	1	.29	31	1	.08	6.0	1	.02
14	111	1	.30	30	5	.41	6.3	1	.02
15	107	1	.29	30	1	.08	6.3	1	.02
16	105	1	.28	28	1	.08	6.3	1	.02
17	99	1	.27	26	1	.07	6.0	1	.02
18	92	1	.25	23	1	.06	5.7	1	.02
19	86	1	.23	22	1	.06	5.1	1	.01
20	80	1	.22	21	1	.06	4.8	1	.01
21	75	1	.20	20	1	.05	3.9	1	.01
22	71	1	.19	20	1	.05	3.3	1	.01
23	68	1	.18	20	1	.05	2.9	1	.01
24	65	1	.18	19	1	.05	2.6	1	.01
25	62	1	.17	19	1	.05	2.3	1	.01
26	59	1	.16	18	1	.05	2.2	1	.01
27	57	1	.15	18	1	.05	1.9	1	.01
28	54	1	.15	16	1	.04	1.6	1	0
29	52	1	.14	15	1	.04	1.4	1	0
30	50	1	.14	14	1	.04	1.2	1	0
31	--	--	--	13	1	.04	--	--	--
TOTAL	3289	--	13.31	879	--	2.69	194.5	--	.56

DAY	JULY			AUGUST			SEPTEMBER		
	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	1.0	1	0						
2	.90	1	0						
3	.90	1	0						
4	.82	1	0						
5	.74	1	0						
6	.60	1	0						
7	.55	1	0						
8	.50	1	0						
9	.44	1	0						
10	.44	1	0						
11	.34	1	0						
12	.30	1	0						
13	.26	1	0						
14	.19	1	0						
15	.16	1	0						
16	.11	1	0						
17	.09	1	0						
18	.09	1	0						
19	.13	1	0						
20	.16	1	0						
21	.19	1	0						
22	.23	1	0						
23	.23	1	0						
24	.19	1	0						
25	.19	1	0						
26	.11	1	0						
27	.02	1	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	0	0	0						
TOTAL	9.88	--	0	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)  
 TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

129990.38  
 169196.02

## SALINAS RIVER BASIN

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE- MENT SEDI- MENT (MG/L)	SUS- PENDE- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV. 14...	1705	20.0	2820	192	1460	--	--	--	--	--	--
JAN. 18...	1600	11.0	10900	1090	32100	25	32	41	48	52	--
19...	1110	8.5	2370	412	2640	8	12	16	19	20	26
FEB. 04...	1315	10.0	1350	74	270	--	--	--	--	--	--
06...	1705	10.0	5460	379	5590	29	34	45	53	61	68
14...	1650	10.0	2090	96	542	--	--	--	--	--	--
27...	1650	10.0	14300	483	18600	30	38	48	58	63	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV. 14...	95	--	97	--	99	--	100	--	--	--
JAN. 18...	61	--	70	--	81	--	93	--	98	100
19...	--	36	--	47	--	58	--	100	--	--
FEB. 04...	84	--	88	--	100	--	--	--	--	--
06...	--	79	--	98	--	100	--	--	--	--
14...	44	--	47	--	61	--	86	--	100	--
27...	84	--	97	--	100	--	--	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	BED	BED	BED
					MAT. SIEVE DIAM. % FINER THAN .250 MM	MAT. SIEVE DIAM. % FINER THAN .500 MM	MAT. SIEVE DIAM. % FINER THAN 1.00 MM
NOV. 22...	1415	11.5	3	134	1	4	11
DATE	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. 22...	14	18	25	55	79	100	

## 205

LOCATION.--Lat 35°53'48", long 121°05'14", in Los Ojitos Grant, Monterey County, at gaging station at highway bridge, 0.4 mile upstream from Tule Canyon, and 3.3 miles south of Lockwood.

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1973.  
Sediment records: October 1965 to September 1973.

Sediment concentrations: Maximum daily, 2,700 mg/l Feb. 11; minimum daily, no flow for many days.  
Sediment discharge: Maximum daily, 22,100 tons Feb. 11; minimum daily, 0 tons on many days.

Sediment concentrations: Maximum daily, 7,420 mg/l Dec. 6, 1966; minimum daily, no flow for many days each year.

REMARKS.--No flow Oct. 1 to Nov. 13, July 2 to Sept. 30.

[illegible]

## SALINAS RIVER BASIN

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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				0	0	0	17	20	.92
2				0	0	0	16	20	.86
3				0	0	0	18	20	.97
4				0	0	0	20	20	1.1
5				0	0	0	24	25	1.6
6				0	0	0	27	40	2.9
7				0	0	0	31	51	4.3
8				0	0	0	32	37	3.2
9				0	0	0	28	23	1.7
10				0	0	0	28	20	1.5
11				0	0	0	28	20	1.5
12				0	0	0	25	20	1.4
13				0	0	0	21	20	1.1
14				385	410	723	19	20	1.0
15				411	253	297	17	20	.92
16				434	311	397	15	20	.81
17				256	140	97	19	20	1.0
18				150	80	32	21	20	1.1
19				101	60	16	22	20	1.2
20				79	40	8.5	22	20	1.2
21				66	30	5.3	20	20	1.1
22				54	25	3.6	21	20	1.1
23				46	25	3.1	21	20	1.1
24				37	25	2.5	19	20	1.0
25				33	25	2.2	19	20	1.0
26				31	25	2.1	18	20	.97
27				27	26	1.9	18	20	.97
28				25	25	1.7	14	20	1.0
29				24	25	1.6	18	20	.97
30				20	20	1.1	18	20	.97
31				--	--	--	18	20	.97
TOTAL	0	--	0	2179	--	1595.6	659	--	41.43

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	18	20	.97	211	37	21	1100	810	2410
2	19	20	1.0	164	35	15	820	510	1130
3	19	20	1.0	158	47	23	748	340	687
4	18	20	.97	264	160	114	788	350	745
5	17	20	.92	239	200	129	676	310	566
6	15	20	.81	838	871	2770	536	248	388
7	15	20	.81	1340	1110	4130	529	210	300
8	20	30	1.6	1000	780	2110	489	190	251
9	449	578	1030	756	430	878	411	180	200
10	652	348	717	1490	1980	10000	367	180	178
11	270	145	106	2600	2700	22100	373	175	176
12	188	90	46	1560	1900	9280	361	170	166
13	133	65	23	1750	2170	11200	314	165	140
14	108	50	15	1400	600	2270	308	150	125
15	90	45	11	1360	440	1620	266	140	101
16	1460	1040	9870	1260	410	1390	220	130	77
17	1110	1370	4290	1100	390	1160	225	125	76
18	1720	1660	9140	950	360	923	207	120	67
19	1100	715	2260	748	330	666	189	105	54
20	668	150	271	668	300	541	498	160	233
21	482	100	130	592	280	448	392	120	127
22	356	80	77	515	240	334	385	180	187
23	277	64	48	456	210	259	308	140	116
24	231	42	26	660	599	1270	298	130	105
25	198	31	17	660	850	1510	308	120	100
26	161	34	15	676	750	1370	303	120	98
27	132	38	14	1590	1270	7410	281	110	83
28	111	34	10	1910	2120	12900	256	110	76
29	123	35	13	--	--	--	238	90	58
30	358	92	91	--	--	--	220	80	48
31	291	53	43	--	--	--	198	75	40
TOTAL	10809	--	28271.08	26915	--	96841	12612	--	9108



## SALINAS RIVER BASIN

207

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	198	55	29	65	26	4.6	19	14	.72
2	202	50	27	62	26	4.4	17	13	.60
3	194	40	21	64	25	4.3	18	13	.63
4	184	38	19	56	25	3.8	17	13	.60
5	168	37	17	63	25	4.3	16	12	.52
6	156	36	15	60	24	3.9	15	12	.49
7	152	36	15	55	24	3.6	13	11	.39
8	140	36	14	55	23	3.4	12	11	.36
9	126	35	12	53	23	3.3	12	11	.36
10	133	35	13	52	23	3.2	12	10	.32
11	127	34	12	48	22	2.9	11	10	.30
12	122	34	11	49	22	2.9	10	9	.24
13	112	33	10	45	21	2.6	10	9	.24
14	99	33	8.8	45	21	2.6	9.9	9	.24
15	90	33	8.0	44	21	2.5	9.5	8	.21
16	88	32	7.6	41	20	2.2	10	8	.22
17	85	32	7.3	38	20	2.1	8.6	7	.16
18	71	31	5.9	34	19	1.7	7.4	7	.14
19	76	31	6.4	30	19	1.5	6.8	7	.13
20	62	31	6.9	28	19	1.4	6.2	6	.10
21	83	30	6.7	27	18	1.3	5.8	6	.09
22	80	30	6.5	27	18	1.3	5.1	5	.07
23	71	29	5.6	27	17	1.2	4.7	5	.06
24	75	29	5.9	25	17	1.1	4.2	4	.05
25	77	29	6.0	24	17	1.1	3.6	4	.04
26	69	28	5.2	23	16	.99	3.1	3	.03
27	71	28	5.4	24	16	1.0	2.6	3	.02
28	69	27	5.0	22	15	.89	2.0	2	.01
29	64	27	4.7	21	15	.85	1.4	2	.01
30	65	27	4.7	21	15	.85	.63	1	0
31	--	--	--	17	14	.64	--	--	--
TOTAL	3329	--	321.6	1245	--	72.42	273.53	--	7.35

DAY	JULY			AUGUST			SEPTEMBER		
	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	.10	1	0						
2	0	0	0						
3	0	0	0						
4	0	0	0						
5	0	0	0						
6	0	0	0						
7	0	0	0						
8	0	0	0						
9	0	0	0						
10	0	0	0						
11	0	0	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	0	0	0						
22	0	0	0						
23	0	0	0						
24	0	0	0						
25	0	0	0						
26	0	0	0						
27	0	0	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	0	0	0						
TOTAL	.10	--	0	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

58021.63

136258.48

## SALINAS RIVER BASIN

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CALIF.--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MONTH	WATFR DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1972	0.0	0.0	0	0
NOVEMBER ...	2179.00	1595.60	2780	4380
DECEMBER ...	659.00	41.43	786	827
JANUARY 1973	10809.00	28271.08	11400	39700
FEBRUARY ...	26915.00	96841.00	24400	121000
MARCH .....	12612.00	9108.00	12300	21400
APRIL .....	3329.00	321.60	1830	2150
MAY .....	1245.00	72.42	273	345
JUNE .....	273.53	7.35	2	9
JULY .....	0.10	0.0	0	0
AUGUST .....	0.0	0.0	0	0
SEPTEMBER ..	0.0	0.0	0	0
TOTAL .....	58021.63	136258.48	53771	189811

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
14...	1030	10.5	355	1920	1840	--	--	--	--	--	81
14...	1515	10.5	700	433	818	21	30	37	44	47	55
21...	1340	12.0	64	24	4.1	--	--	--	--	--	--
JAN.											
10...	1510	9.0	529	254	363	--	--	--	--	--	--
16...	1500	12.5	482	855	1110	60	74	81	88	92	94
17...	1435	9.5	1020	1350	3720	--	--	--	--	--	--
18...	0935	10.0	1680	1290	5850	10	14	19	25	36	56
18...	1300	10.5	3220	2750	23900	10	13	16	19	24	29
FEB.											
07...	1400	11.5	1300	626	2200	--	--	--	--	--	--
11...	0800	11.0	4410	5270	62800	7	9	11	15	19	24
13...	0800	10.0	1880	2530	12800	--	--	--	--	--	--
14...	0800	10.0	1340	626	2270	--	--	--	--	--	--
27...	1500	13.5	1160	380	1190	--	--	--	--	--	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.										
14...	--	90	--	97	--	100	--	--	--	--
14...	--	61	--	86	--	100	--	--	--	--
21...	68	--	70	--	77	--	100	--	--	--
JAN.										
10...	15	--	17	--	34	--	86	--	100	--
16...	--	98	--	100	--	--	--	--	--	--
17...	6	--	8	--	18	--	42	--	71	100
18...	--	89	--	100	--	--	--	--	--	--
18...	--	39	--	69	--	97	--	100	--	--
FEB.										
07...	15	--	19	--	39	--	77	--	94	100
11...	--	37	--	65	--	93	--	100	--	--
13...	10	--	13	--	32	--	84	--	100	--
14...	4	--	7	--	29	--	73	--	100	--
27...	23	--	26	--	43	--	85	--	100	--

## SALINAS RIVER BASIN

209

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM
OCT. 25...	1410	3	.00	1	3	14	31
JAN. 10...	1445	--	529	--	3	23	47

DATE	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. 25...	47	59	71	87	97	100
JAN. 10...	70	82	91	97	100	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
NOV. 21...	1330	12.0	47	64	114	68	--	1
27...	1520	15.5	65	26	67	21	1	1
JAN. 12...	1435	8.0	41	184	131	313	--	2
17...	1510	9.5	17	990	180	1180	--	3
FEB. 07...	1425	11.5	5	1340	183	1370	--	5
27...	1420	13.5	5	1090	195	359	1	6
APR. 04...	1445	21.0	36	188	147	131	--	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
NOV. 21...	17	59	86	94	98	100	--	--
27...	15	47	77	90	95	100	--	--
JAN. 12...	20	60	80	88	92	94	95	100
17...	21	56	82	90	95	98	100	--
FEB. 07...	29	63	81	88	93	97	100	--
27...	35	62	76	84	91	97	100	--
APR. 04...	25	74	92	96	98	100	--	--

11151870 ARROYO SECO NEAR GREENFIELD, CALIF.

LOCATION.--Lat 36°14'15", long 121°28'50", in NE¼SE¼ sec.36, T.19 S., R.4 E., Monterey County, at gaging station 0.6 mile downstream from Rocky Creek, and 14.5 miles southwest of Greenfield.

DRAINAGE AREA.--113 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1962 to September 1973.

Sediment records: Water year 1962 (partial-record station), October 1962 to September 1973.

EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 482 mg/l Feb. 10; minimum daily, 1 mg/l for many days.

Sediment discharge: Maximum daily, 5,030 tons Jan. 16; minimum daily, 0 tons on several days.

Period of record:

Water temperatures (1964-66, 1971-72): Minimum, 3.5°C Jan. 6, 9, 1972.

Sediment concentrations: Maximum daily, 3,040 mg/l Dec. 6, 1966; minimum daily, no flow many days in 1966, 1968, and 1972.

Sediment discharge: Maximum daily, 84,800 tons Dec. 6, 1966; minimum daily, 0 tons on many days in 1966, 1968. 1970-73.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

[illegible]

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT (T/DAY)	SUSPENDED	SUSPENDED	SUSPENDED	SUSPENDED	SUSPENDED	SUSPENDED
						SEDIMENT DIAM. % FINER THAN .002 MM	SEDIMENT DIAM. % FINER THAN .004 MM	SEDIMENT DIAM. % FINER THAN .008 MM	SEDIMENT DIAM. % FINER THAN .016 MM	SEDIMENT DIAM. % FINER THAN .031 MM	SEDIMENT DIAM. % FINER THAN .062 MM
NOV. 17...	1400	11.0	546	2	2.9	--	--	--	--	--	--
JAN. 16...	1310	10.0	6380	2190	37700	6	8	12	17	21	26
FEB. 10...	1005	--	2430	497	3260	--	--	--	--	--	--
DATE		SUSPENDED SEDIMENT DIAM. % FINER THAN .062 MM	SUSPENDED SEDIMENT DIAM. % FINER THAN .125 MM	SUSPENDED SEDIMENT DIAM. % FINER THAN .125 MM	SUSPENDED SEDIMENT DIAM. % FINER THAN .250 MM	SUSPENDED SEDIMENT DIAM. % FINER THAN .250 MM	SUSPENDED SEDIMENT DIAM. % FINER THAN .500 MM	SUSPENDED SEDIMENT DIAM. % FINER THAN .500 MM	SUSPENDED SEDIMENT DIAM. % FINER THAN 1.00 MM	SUSPENDED SEDIMENT DIAM. % FINER THAN 1.00 MM	SUSPENDED SEDIMENT DIAM. % FINER THAN 2.00 MM
NOV. 17...	86	--	100	--	--	--	--	--	--	--	--
JAN. 16...	--	33	--	44	--	64	--	96	--	100	--
FEB. 10...	42	--	61	--	84	--	98	--	100	--	--

11151870 ARROYO SECO NEAR GREENFIELD, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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	1.6	1	0	9.4	2	.05	59	3	.48
2	1.6	1	0	9.4	2	.05	54	3	.44
3	1.5	1	0	9.4	2	.05	52	7	.98
4	1.5	1	0	38	15	2.3	66	9	1.6
5	1.5	1	0	33	10	.89	65	7	1.2
6	1.6	1	0	21	4	.23	96	8	2.6
7	1.7	2	.01	14	2	.10	120	6	1.9
8	1.7	1	0	20	3	.16	105	1	.28
9	2.2	4	.04	17	2	.09	90	1	.24
10	5.6	7	.14	31	6	.82	83	1	.22
11	5.6	8	.12	222	31	23	75	1	.20
12	6.6	2	.04	99	8	2.1	70	.1	.19
13	11	5	.16	468	26	177	67	1	.18
14	11	5	.32	2030	133	987	64	1	.17
15	134	21	8.3	1880	92	592	61	1	.16
16	99	21	8.9	1230	41	174	60	1	.16
17	170	22	16	582	5	7.9	67	2	.36
18	46	4	.50	351	3	2.8	81	4	.87
19	28	3	.23	250	2	1.4	73	1	.20
20	20	3	.16	184	2	.99	72	1	.19
21	16	2	.09	151	2	.82	65	1	.18
22	14	2	.08	131	3	1.1	58	1	.16
23	13	2	.07	115	3	.93	55	1	.15
24	12	2	.06	102	3	.83	54	1	.15
25	11	2	.06	93	3	.75	51	1	.14
26	10	2	.05	85	3	.69	51	1	.14
27	9.9	2	.05	77	3	.62	49	1	.13
28	9.6	2	.05	71	4	.77	48	1	.13
29	9.4	2	.05	66	3	.53	46	1	.12
30	9.1	2	.05	62	3	.50	44	1	.12
31	9.4	4	.10	--	--	--	43	1	.12
TOTAL	675.1	--	35.63	8455.2	--	1980.47	2044	--	14.16

DAY	JANUARY			FEBRUARY			MARCH		
	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	42	1	.11	366	4	4.0	1380	48	179
2	42	1	.11	325	6	5.3	1050	42	119
3	41	1	.11	357	6	5.8	906	40	99
4	40	1	.11	526	10	15	825	31	69
5	40	1	.11	486	9	13	720	21	41
6	39	1	.11	1650	275	1440	735	17	34
7	39	1	.11	1740	326	1590	662	9	16
8	65	17	6.5	1100	178	529	642	8	14
9	1020	396	1220	936	126	346	578	5	7.8
10	695	181	383	2500	482	3620	518	5	7.0
11	378	40	41	4220	345	4780	518	5	7.0
12	286	5	3.9	2780	178	1470	478	4	5.2
13	232	2	1.3	2580	88	638	444	3	3.6
14	198	2	1.1	1940	22	118	408	3	3.3
15	172	2	.93	1470	1	4.0	387	3	3.1
16	2190	388	5030	1150	1	3.1	363	3	2.9
17	1340	96	389	972	1	2.6	342	3	2.8
18	2390	259	1830	820	1	2.2	328	3	2.7
19	1380	8	30	715	1	1.9	405	15	29
20	855	2	4.6	618	1	1.7	695	18	38
21	646	2	3.5	562	2	3.0	574	12	18
22	510	3	4.1	510	2	2.8	550	8	12
23	422	2	2.3	458	2	2.5	492	5	6.6
24	360	4	3.9	996	170	531	450	5	6.1
25	328	3	2.7	695	80	150	419	5	5.7
26	288	9	7.0	912	131	387	393	5	5.3
27	258	4	2.8	2370	220	1930	372	5	5.0
28	234	4	2.5	2400	107	1010	348	5	4.7
29	375	13	14	--	--	--	332	4	3.6
30	570	12	19	--	--	--	318	4	3.4
31	433	3	3.5	--	--	--	305	4	3.3
TOTAL	15908	--	9007.40	36154	--	18605.9	16937	--	757.1

## SALINAS RIVER BASIN

11151870 ARROYO SECO NEAR GREENFIELD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	288	3	2.3	119	1	.32	55	17	2.5
2	272	2	1.5	115	1	.31	55	18	2.7
3	264	1	.71	113	1	.31	52	21	2.9
4	254	1	.69	111	2	.60	50	25	3.4
5	244	1	.66	110	2	.59	48	25	3.2
6	234	1	.63	108	2	.58	46	17	2.1
7	224	1	.60	105	3	.85	44	12	1.4
8	217	1	.59	103	4	1.1	41	31	3.4
9	211	1	.57	99	5	1.3	41	43	4.8
10	206	1	.56	97	5	1.3	39	28	2.9
11	197	1	.53	95	4	1.0	39	16	1.7
12	191	1	.52	91	4	.98	40	16	1.7
13	188	1	.51	86	3	.70	39	17	1.8
14	186	1	.50	84	2	.45	41	17	1.9
15	179	1	.48	82	2	.44	41	16	1.8
16	172	1	.46	80	1	.22	40	18	1.9
17	168	1	.45	77	1	.21	39	19	2.0
18	164	1	.44	74	4	.80	37	18	1.8
19	160	1	.43	71	7	1.3	35	12	1.1
20	156	1	.42	69	10	1.9	33	9	.80
21	151	1	.41	68	13	2.4	30	10	.81
22	148	1	.40	68	12	2.2	29	13	1.0
23	142	1	.38	66	11	2.0	30	16	1.3
24	140	1	.38	65	10	1.8	28	13	.98
25	136	1	.37	65	14	2.5	27	9	.66
26	133	1	.36	63	15	2.6	25	10	.68
27	129	1	.35	62	15	2.5	24	11	.71
28	126	1	.34	60	14	2.3	22	15	.89
29	126	1	.34	57	14	2.2	21	18	1.0
30	125	1	.34	54	15	2.2	19	18	.92
31	--	--	--	53	16	2.3	--	--	--
TOTAL	5531	--	17.22	2570	--	40.26	1110	--	54.75

DAY	JULY			AUGUST			SEPTEMBER		
	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	19	17	.87	11	2	.06	7.2	7	.14
2	19	17	.87	10	2	.05	7.3	8	.16
3	18	17	.83	10	2	.05	7.4	9	.18
4	17	12	.55	9.3	2	.05	7.1	9	.17
5	16	11	.48	8.9	2	.05	7.1	9	.17
6	14	16	.60	10	2	.05	7.2	9	.17
7	14	21	.79	11	2	.06	7.2	9	.17
8	14	23	.87	9.6	2	.05	6.9	7	.13
9	14	23	.87	9.6	2	.05	5.4	6	.09
10	14	10	.38	9.4	2	.05	4.0	6	.06
11	13	2	.07	9.1	2	.05	4.2	5	.06
12	13	2	.07	9.9	2	.05	4.5	4	.05
13	12	2	.06	10	1	.03	4.4	3	.04
14	12	2	.06	10	2	.05	4.6	4	.05
15	12	4	.13	9.1	3	.07	4.5	6	.07
16	12	5	.16	7.9	6	.13	4.7	8	.10
17	12	3	.10	7.2	7	.14	4.8	8	.10
18	12	2	.06	7.0	7	.13	4.9	7	.09
19	12	2	.06	7.0	7	.13	5.0	4	.05
20	12	2	.06	6.8	6	.11	5.0	2	.03
21	12	6	.19	6.2	4	.07	5.2	3	.04
22	14	4	.15	6.4	2	.03	5.4	1	.01
23	17	1	.05	6.9	1	.02	5.5	1	.01
24	15	1	.04	7.1	6	.12	5.9	1	.02
25	15	2	.08	7.6	9	.18	6.3	1	.02
26	14	5	.19	8.4	4	.09	6.4	2	.03
27	13	14	.49	8.9	2	.05	5.9	3	.05
28	11	17	.50	9.4	3	.08	5.3	3	.04
29	12	14	.45	8.9	4	.10	4.9	3	.04
30	14	8	.30	8.3	5	.11	4.5	3	.04
31	13	4	.14	7.6	6	.12	--	--	--
TOTAL	431	--	10.52	268.5	--	2.38	168.7	--	2.38

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

90252.5  
30528.17

## SALINAS RIVER BASIN

213

## 11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.

LOCATION.--Lat 36°37'52", long 121°40'17", in Nacional Grant, Monterey County, at gaging station at bridge on Salinas-Monterey highway, 0.8 mile upstream from El Toro Creek, 1.6 miles northwest of Spreckels, and 2 miles south of Salinas.

DRAINAGE AREA.--4,156 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-54 (partial-record station), October 1958 to September 1966, water years 1967-70, 1972-73 (partial-record station). Published as sta 11152300 "near Chualar" in 1967. Water temperatures: December 1966 to September 1973. Published as sta 11152300 "near Chualar" in 1967-69. Sediment records: Water years 1950-51 (partial-record station), December 1966 to September 1973. Published as sta 11152300 "near Chualar" in 1967-69. Turbidity: Water year 1973 (partial-record station).

## EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 8,860 mg/l Feb. 12; minimum daily, 2 mg/l Oct. 15.  
Sediment discharge: Maximum daily, 350,000 tons Feb. 12; minimum daily, 0.02 ton on several days.

## Period of record:

Sediment concentrations: Maximum daily, 18,900 mg/l Feb. 25, 1969; minimum daily, no flow for several days in 1968.  
Sediment discharge: Maximum daily, 2,790,000 tons Feb. 26, 1969; minimum daily, 0 tons on several days in 1968.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DIS-SOLVED NITRATE (MG/L)	DIS-SOLVED NITRITE (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITROGEN (MG/L)	DIS-SOLVED AMMONIA NITROGEN (MG/L)	ORGANIC NITROGEN (MG/L)	TOTAL KJEL-DAHL NITROGEN (MG/L)
NOV. 27...	1515	17	2.4	.10	2.5	--	--	1.5	.70	2.2
FEB. 08...	1545	2150	1.6	.00	1.6	--	.22	.22	2.9	3.1
MAR. 23...	1400	2890	.41	.00	.41	--	.19	.19	2.2	2.4
MAY 18...	1430	30	1.6	.09	1.7	--	.01	--	.27	.28
SEP. 06...	1145	1.4	16	.10	16	.7	2.1	--	1.5	3.6

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL NITROGEN IN BOTTOM DEPOSITS (N) (MG/KG)	DIS-SOLVED ORTHO-PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM DEPOSITS (MG/KG)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)
NOV. 27...	2.3	--	1.8	--	840	--	15.0	8.0	--
FEB. 08...	4.9	--	.16	--	546	7.7	14.0	45	--
MAR. 23...	.20	--	.08	--	494	--	13.0	34	--
MAY 18...	.16	--	.16	--	1120	--	24.0	3.0	--
SEP. 06...	13	250	3.0	340	1130	7.1	22.0	28	2.1

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)
FEB. 08...	1545	.00	--	.0	--	.00	--	.01	--	.01	--
MAR. 23...	1400	.00	--	.0	--	.00	--	.00	--	.01	--
MAY 18...	1430	.00	--	.0	--	.00	--	.00	--	.01	--
SEP. 06...	1145	.00	.0	.3	41	.00	3.0	.04	7.6	.08	12

## SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	LINDANE (UG/L)
FEB. 08...	.00	.00	--	.00	--	.00	--	.00	--	.00
MAR. 23...	.00	.01	--	.00	--	.00	--	.00	--	.00
MAY 18...	.01	.01	--	.00	--	.00	--	.00	--	.00
SEP. 06...	.03	.06	11	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	TOX- APHENE (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
FEB. 08...	--	.00	.00	.00	.0	--	--	.03	.00	.03
MAR. 23...	--	.00	.00	.00	.0	--	--	.30	.00	.00
MAY 18...	--	.00	.00	.00	.0	--	--	.00	.00	.00
SEP. 06...	.0	.02	.00	.01	.0	0	0	.17	.00	.00

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)
NOV. 27...	1515	0	0	0	1	--	0	--
FEB. 08...	1545	30	3	20	0	--	590	--
MAR. 23...	1400	30	3	20	2	--	330	--
MAY 18...	1430	4	4	10	0	--	--	0
SEP. 06...	1145	4	7	10	0	0	0	--

DATE	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE- POSITS (UG/G)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	TOTAL LEAD (PB) (UG/L)
NOV. 27...	--	0	2	1	--	40	32	--	4
FEB. 08...	--	0	140	0	--	260	5	--	300
MAR. 23...	--	0	90	0	--	230	20	--	100
MAY 18...	--	0	<25	1	--	0	13	--	<100
SEP. 06...	9	0	<25	1	<2	40	30	4	50

DATE	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE- POSITS (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE- POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE- POSITS (UG/G)
NOV. 27...	1	--	.1	.1	--	50	20	--
FEB. 08...	1	--	6.4	3.5	--	530	0	--
MAR. 23...	3	--	2.0	.4	--	310	30	--
MAY 18...	0	--	.5	.5	--	40	10	--
SEP. 06...	6	<5	.4	.4	.0	90	70	21



## SALINAS RIVER BASIN

215

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.0	---	11.0	---	10.0	13.0	---	17.0	---	---	---	---
2	---	15.0	---	14.0	10.0	12.0	15.0	---	---	---	---	---
3	21.0	---	11.0	---	10.0	12.0	---	18.0	---	---	23.0	---
4	---	16.0	---	12.0	11.0	13.0	---	---	20.0	22.0	---	22.0
5	21.0	---	---	15.0	10.0	14.0	---	17.0	---	---	---	---
6	---	16.0	11.5	---	11.0	12.0	15.0	---	---	---	---	---
7	22.0	15.0	9.0	14.0	12.0	13.0	---	17.0	20.5	---	24.0	---
8	---	15.0	---	---	14.0	12.0	17.0	---	---	23.0	---	23.0
9	22.0	---	8.0	14.0	14.0	13.0	---	18.0	---	28.0	---	---
10	---	16.0	8.0	---	13.0	14.0	19.0	---	---	---	23.0	---
11	21.0	---	8.0	12.0	12.0	14.0	---	19.0	21.0	---	---	23.0
12	---	15.0	---	15.0	11.0	13.0	18.0	---	---	---	---	---
13	22.0	---	7.0	14.0	12.0	13.0	---	16.0	---	22.0	---	---
14	---	14.0	---	15.0	13.0	14.0	16.0	---	---	---	24.0	24.0
15	20.0	---	9.0	12.5	12.0	14.0	---	17.0	---	---	---	---
16	---	12.0	---	13.0	12.0	14.0	17.0	---	---	22.0	---	---
17	21.0	12.0	9.0	11.0	13.0	13.0	---	18.0	---	22.0	25.0	---
18	---	12.5	---	10.0	12.0	14.0	17.0	---	---	---	---	23.0
19	20.0	12.0	9.0	9.0	13.0	12.0	---	---	25.0	---	---	---
20	---	---	---	8.0	15.0	---	16.0	---	---	---	---	---
21	19.0	11.0	15.0	8.0	13.0	---	---	---	---	23.0	23.0	18.5
22	---	13.0	---	---	13.0	12.0	17.0	---	25.0	---	---	23.0
23	20.0	8.0	14.0	9.0	15.0	11.0	---	---	---	---	---	---
24	---	---	---	9.5	15.0	---	17.0	---	---	24.0	23.0	---
25	18.5	10.0	15.0	9.0	14.0	15.0	---	17.0	---	---	---	24.0
26	---	---	---	9.0	13.0	---	16.0	---	25.0	---	---	---
27	18.5	12.0	12.0	8.0	14.0	14.0	---	---	---	24.0	23.0	---
28	---	12.5	---	10.0	14.0	---	17.0	18.0	---	---	---	24.0
29	18.0	10.0	13.0	10.0	---	14.0	---	---	---	---	---	25.0
30	13.0	---	---	9.0	---	---	16.0	---	---	---	---	---
31	10.0	---	14.0	10.0	---	13.0	---	18.0	---	23.0	25.0	---
MONTH	---	---	---	11.0	12.5	13.0	---	---	---	---	---	---

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	3.1	4	.03	66	86	15	3.6	20	.19
2	3.0	4	.03	71	85	16	2.9	21	.16
3	3.1	4	.03	60	71	12	2.9	22	.17
4	3.1	5	.04	47	56	7.1	3.8	22	.23
5	3.1	6	.05	25	41	2.8	3.1	23	.19
6	3.3	5	.04	13	27	.95	2.5	24	.16
7	3.4	4	.04	7.5	25	.51	4.6	24	.30
8	3.3	4	.04	4.7	8	.10	5.1	24	.33
9	3.4	4	.04	3.2	21	.18	3.5	25	.24
10	3.3	4	.04	3.5	36	.34	3.2	34	.29
11	3.3	4	.04	5.0	28	.38	3.1	43	.36
12	3.6	7	.07	3.1	22	.18	3.0	33	.27
13	3.4	10	.09	2.7	20	.15	3.0	24	.19
14	3.5	6	.06	5.9	62	.99	2.9	22	.17
15	3.6	2	.02	7.4	45	.91	3.0	26	.21
16	4.2	5	.06	335	339	280	3.0	26	.21
17	3.8	8	.08	711	619	1280	3.4	22	.20
18	3.7	7	.07	415	612	758	3.5	22	.21
19	3.4	7	.06	284	2090	1580	3.5	33	.31
20	3.6	8	.08	154	1630	678	3.3	49	.44
21	3.4	10	.09	88	1040	247	3.0	60	.49
22	3.4	9	.08	61	485	80	3.0	64	.52
23	3.4	8	.07	46	315	39	3.0	59	.48
24	3.4	7	.06	35	257	24	3.0	31	.25
25	13	28	1.4	26	218	15	2.5	14	.09
26	34	58	5.3	20	178	9.6	2.6	25	.18
27	44	73	8.7	16	139	6.0	2.8	38	.29
28	48	86	11	13	33	1.2	2.8	28	.21
29	52	93	13	7.6	55	1.1	2.6	18	.13
30	59	86	14	4.1	31	.34	2.6	24	.17
31	63	79	13	---	---	---	2.6	29	.20
TOTAL	394.8	--	67.71	2540.7	--	5056.83	97.4	--	7.84

## SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JANUARY			FEBRUARY			MARCH		
	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	2.6	30	.21	547	170	251	5870	5310	86100
2	2.8	26	.20	461	311	387	7500	3850	78300
3	2.8	28	.21	416	176	198	6460	2000	34900
4	2.6	49	.34	390	183	193	4870	1610	21200
5	2.5	58	.39	483	185	241	4380	1290	15300
6	2.6	42	.29	603	186	303	4040	1250	13600
7	3.6	28	.27	1660	800	4030	2960	1150	9190
8	6.6	23	.41	2300	5740	35900	2500	1900	12800
9	14	18	.68	2330	6010	38300	2310	2570	16000
10	15	16	.65	2120	3720	21700	2100	1790	10100
11	14	16	.60	5350	2390	35900	1910	1300	6700
12	17	208	9.5	14400	8860	350000	1740	950	4460
13	21	375	21	10800	4850	144000	1600	1340	5790
14	24	350	23	8990	4780	117000	1560	2770	11700
15	26	84	5.9	6250	3000	51700	1400	940	3550
16	18	66	3.9	6670	2400	43400	1200	860	2790
17	223	705	708	5950	1370	22000	1080	670	1950
18	1530	860	3670	4290	940	10900	972	1050	2760
19	2090	3580	23900	3580	850	8220	896	569	1400
20	5440	6410	100000	3210	865	7500	1270	636	2310
21	2760	2370	20000	2950	760	6050	2080	1490	8730
22	1680	456	2070	2380	452	2930	3120	3050	25900
23	1210	348	1140	1880	660	3350	2780	3630	27100
24	969	315	824	1670	660	2980	2430	2600	17100
25	806	310	675	2040	1020	5690	2100	1480	8390
26	663	245	439	1740	1150	5400	1820	1050	5160
27	559	248	374	2000	780	4170	1610	935	4060
28	475	272	349	4530	2090	28900	1450	845	3310
29	413	202	225	--	--	--	1280	705	2440
30	403	350	381	--	--	--	1150	765	2380
31	591	207	330	--	--	--	1060	805	2300
TOTAL	19987.1	--	155152.55	99990	--	951593	77498	--	447770
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	954	590	1520	121	445	145	2.8	60	.45
2	876	465	1100	113	480	146	2.8	72	.54
3	805	445	967	110	450	134	3.0	85	.69
4	747	470	948	103	390	108	3.3	95	.85
5	681	535	984	95	179	46	3.3	100	.89
6	633	655	1120	90	175	43	3.5	110	1.0
7	591	810	1290	86	182	42	3.5	125	1.2
8	549	910	1350	81	178	39	3.5	118	1.1
9	521	670	942	77	155	32	3.3	125	1.1
10	499	190	256	73	127	25	3.3	155	1.4
11	462	195	243	66	58	10	3.3	200	1.8
12	426	225	259	56	50	7.6	3.3	190	1.7
13	403	230	250	52	52	7.3	2.8	180	1.4
14	387	315	329	48	59	7.6	2.8	170	1.3
15	367	410	406	45	64	7.8	2.8	160	1.2
16	349	515	485	44	70	8.3	2.8	150	1.1
17	328	465	412	35	77	7.3	2.8	150	1.1
18	305	360	296	30	88	7.1	2.8	140	1.1
19	286	390	301	24	100	6.5	2.6	130	.91
20	264	595	424	19	85	4.4	2.6	120	.84
21	245	705	466	15	74	3.0	2.6	110	.77
22	223	488	468	13	65	2.3	2.6	85	.60
23	211	1000	570	11	51	1.5	2.4	72	.47
24	201	1090	592	8.5	33	.76	2.4	63	.41
25	183	805	398	7.2	20	.39	2.4	52	.34
26	173	505	236	4.4	16	.19	2.2	40	.24
27	164	480	213	3.3	15	.13	2.2	41	.24
28	158	565	241	3.3	15	.13	2.2	43	.26
29	148	330	132	3.0	27	.22	1.9	44	.23
30	135	235	86	3.0	38	.31	1.9	45	.23
31	--	--	--	2.8	50	.38	--	--	--
TOTAL	12274	--	17304	1442.5	--	843.21	83.7	--	25.46

## SALINAS RIVER BASIN

217

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JULY			AUGUST			SEPTEMBER		
	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	2.0	46	.25	1.4	16	.06	1.8	12	.06
2	2.0	46	.25	1.4	20	.08	1.6	13	.06
3	1.9	47	.24	1.3	19	.07	1.6	15	.06
4	1.9	49	.25	1.3	20	.07	1.5	17	.07
5	1.8	51	.25	1.4	20	.08	1.5	18	.07
6	1.8	53	.26	1.3	20	.07	1.4	20	.08
7	1.6	54	.23	1.2	20	.06	1.4	22	.08
8	1.6	54	.23	1.2	18	.06	1.4	23	.09
9	1.8	43	.21	1.0	23	.06	1.3	22	.08
10	1.8	34	.17	.80	13	.03	1.3	22	.08
11	1.6	27	.12	.80	13	.03	1.3	21	.07
12	1.6	19	.08	.70	13	.02	2.8	21	.16
13	1.6	12	.05	.70	13	.02	3.0	19	.15
14	1.8	10	.05	.80	13	.03	3.5	18	.17
15	1.8	8	.04	.70	13	.02	3.9	17	.18
16	1.8	9	.04	.70	12	.02	3.5	15	.14
17	1.8	26	.13	.70	11	.02	4.8	13	.17
18	1.8	25	.12	.61	12	.02	6.1	10	.16
19	1.6	22	.10	3.7	13	.13	8.5	10	.23
20	1.6	20	.09	10	13	.35	12	9	.29
21	1.6	18	.08	12	14	.45	25	9	.61
22	1.5	18	.07	6.1	16	.26	28	9	.68
23	1.5	18	.07	2.8	17	.13	31	10	.84
24	1.5	18	.07	2.4	20	.13	27	14	1.0
25	1.5	21	.09	2.0	25	.14	27	15	1.1
26	1.6	29	.13	2.0	28	.15	24	15	.97
27	1.6	38	.16	2.0	29	.16	22	14	.83
28	1.5	35	.14	1.9	26	.13	22	14	.83
29	1.4	27	.10	1.9	21	.11	21	27	1.5
30	1.4	19	.07	1.8	16	.08	19	26	1.3
31	1.5	14	.06	1.8	12	.06	--	--	--
TOTAL	51.8	--	4.20	68.41	--	3.10	310.2	--	12.11

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

214738.61

1577840.01

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. DIAM. % FINER THAN .002 MM	SUS. SED. DIAM. % FINER THAN .004 MM	SUS. SED. DIAM. % FINER THAN .008 MM	SUS. SED. DIAM. % FINER THAN .016 MM	SUS. SED. DIAM. % FINER THAN .031 MM
OCT.										
30...	1605	13.0	56	82	12	--	--	--	--	--
NOV.										
16...	0945	12.0	332	343	307	--	--	--	--	--
18...	1530	12.5	437	682	805	81	95	99	99	99
21...	1035	11.0	87	1090	256	75	97	99	100	--
28...	1305	12.5	12	33	1.1	--	--	--	--	--
JAN.										
17...	1035	11.0	42	569	65	85	99	99	99	99
18...	1245	10.0	1490	351	1410	68	90	96	99	99
19...	1600	9.0	2640	8610	61400	66	80	93	96	98
20...	0940	8.0	7930	7870	169000	--	--	--	--	--
20...	1215	9.0	7330	8760	173000	65	76	89	95	96
FEB.										
08...	1100	14.0	2340	6500	41100	--	--	--	--	--
08...	1445	14.0	2190	5120	30300	61	78	94	98	99
10...	0920	13.0	1880	3590	18200	--	--	--	--	--
12...	1545	11.0	15500	11400	477000	54	67	82	91	93
13...	1200	12.0	10300	4500	125000	--	--	--	--	--
14...	1415	13.0	9280	5300	133000	56	63	77	87	89
17...	1300	13.0	5980	1260	20300	30	40	47	54	56
18...	1030	12.0	4210	901	10200	--	--	--	--	--
22...	1000	13.0	2400	405	2620	--	--	--	--	--
28...	1100	14.0	5040	1650	22500	--	--	--	--	--
MAR.										
02...	1000	12.0	7780	3910	82100	39	48	56	64	67
12...	1130	13.0	1730	909	4250	--	--	--	--	--
23...	0910	11.0	2720	4310	31700	51	66	74	80	85

## SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT.									
30...	--	100	--	--	--	--	--	--	--
NOV.									
16...	--	92	--	94	--	95	--	100	--
18...	--	100	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
28...	--	92	--	92	--	100	--	--	--
JAN.									
17...	--	100	--	--	--	--	--	--	--
18...	--	100	--	--	--	--	--	--	--
19...	--	99	--	99	--	100	--	--	--
20...	98	--	98	--	99	--	100	--	--
20...	97	--	98	--	100	--	--	--	--
FEB.									
08...	99	--	99	--	100	--	--	--	--
08...	--	100	--	--	--	--	--	--	--
10...	52	--	52	--	54	--	89	--	100
12...	94	--	97	--	100	--	--	--	--
13...	92	--	95	--	100	--	--	--	--
14...	91	--	94	--	99	--	100	--	--
17...	63	--	73	--	99	--	100	--	--
18...	64	--	74	--	98	--	100	--	--
22...	--	34	--	37	--	83	--	100	--
28...	53	--	70	--	96	--	99	--	100
MAR.									
02...	70	--	80	--	100	--	--	--	--
12...	37	--	44	--	92	--	100	--	--
23...	87	--	91	--	100	--	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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	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
OCT.												
24...	1455	1	3.7	1	2	12	70	90	95	97	99	100
24...	1500	1	3.7	1	6	29	96	99	99	99	100	--
24...	1505	1	3.7	4	17	71	91	94	97	98	100	--

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PEN- DED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)	DATE	TIME	SUS- PEN- DED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
OCT.				NOV.			
03...	--	4	9	12...	--	22	20
05...	--	6	7	14...	--	74	40
07...	--	4	6	16...	0945	343	140
09...	--	4	9	16...	1210	255	120
10...	--	4	6	16...	1530	238	120
13...	--	10	7	17...	--	1120	300
15...	--	2	8	18...	1145	537	200
17...	--	8	7	18...	1310	570	200
19...	--	7	7	18...	1410	688	240
21...	--	10	10	18...	1500	654	220
23...	--	8	6	18...	1530	682	220
25...	--	36	30	18...	1545	652	220
27...	--	72	40	19...	--	2410	220
29...	--	94	50	21...	--	1090	280
30...	--	82	60	22...	--	472	160
31...	0945	122	70	23...	--	320	130
31...	1020	82	45	25...	--	222	90
31...	1100	74	40	27...	--	144	60
NOV.				28...	--	33	25
02...	--	86	45	29...	--	59	30
04...	--	56	35	DEC.			
06...	--	28	20	01...	--	20	10
07...	--	30	20	03...	--	22	10
08...	--	6	10	06...	--	19	15
10...	--	38	30	07...	--	24	20

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PENDE SEDIM- ENT (MG/L)	TUR- BID- ITY (JTU)	DATE	TIME	SUS- PENDE SEDIM- ENT (MG/L)	TUR- BID- ITY (JTU)
DEC.				MAR.			
09...	--	25	30	06...	--	1300	100
15...	--	26	10	07...	--	1040	95
17...	--	22	10	08...	--	1930	430
19...	--	32	20	09...	--	2670	190
21...	--	60	20	10...	--	1660	450
23...	--	62	10	11...	--	1330	150
25...	--	14	15	12...	--	909	110
27...	--	39	10	13...	--	1180	150
29...	--	18	9	14...	--	3440	170
31...	--	29	10	15...	--	830	110
JAN.				16...	--	862	100
02...	--	27	10	17...	--	631	80
04...	--	42	25	19...	--	485	50
05...	--	60	25	22...	--	2580	500
07...	--	28	10	23...	0910	4310	800
09...	--	18	8	23...	1230	4200	1000
11...	--	15	7	23...	1315	3950	1000
12...	--	228	100	25...	--	1460	350
13...	--	360	130	27...	--	910	140
14...	--	404	140	29...	--	691	85
15...	1045	91	55	31...	--	849	65
15...	1200	54	30	APR.			
16...	--	614	300	02...	--	458	50
17...	1000	596	380	06...	1115	472	45
17...	1035	569	330	06...	1220	432	45
18...	1200	1980	530	10...	1555	212	30
18...	1245	351	150	10...	1755	240	35
18...	1300	432	130	10...	1810	170	25
19...	1100	1640	450	12...	--	226	25
19...	1400	8480	1800	14...	--	310	25
19...	1600	8610	1900	16...	--	528	20
20...	0940	7870	2500	18...	--	350	20
20...	1000	9610	2200	20...	--	631	20
20...	1150	9680	2300	20...	--	802	20
20...	1215	8760	1900	22...	--	1120	15
21...	--	2180	750	24...	--	506	25
22...	--	440	150	26...	--	592	20
23...	--	898	220	28...	--	196	20
24...	--	312	100	30...	--		
25...	--	323	110	MAY			
26...	--	233	95	01...	--	447	20
27...	--	240	80	05...	--	179	25
28...	--	276	80	07...	--	184	20
29...	--	192	70	09...	--	155	15
30...	--	352	100	11...	1405	47	10
31...	--	174	80	11...	1535	58	10
FEB.				13...	--	52	10
01...	--	146	60	15...	--	67	10
02...	--	344	110	17...	--	77	25
03...	--	164	75	19...	--	103	15
04...	--	185	70	22...	--	65	15
05...	--	185	65	25...	--	18	10
06...	--	186	70	28...	--	14	3
07...	--	966	210	31...	--	50	7
08...	1040	6620	1900	JUNE			
08...	1100	6500	1700	07...	--	123	20
08...	1410	5450	1600	11...	--	200	20
08...	1445	5120	1500	22...	--	86	9
09...	--	6440	1500	26...	--	39	10
10...	--	3590	650	JULY			
11...	--	1120	350	0A...	--	55	8
12...	0900	10300	2100	09...	--	40	10
12...	1545	11400	2100	16...	--	6	10
13...	--	4500	1100	17...	0930	23	20
14...	--	5300	1200	17...	1000	30	15
15...	--	2600	700	21...	--	18	15
16...	--	2580	650	24...	--	18	15
17...	--	1260	180	27...	--	39	20
18...	--	901	140	31...	--	14	15
19...	--	834	110	AUG.			
20...	--	872	100	03...	--	19	20
21...	--	818	100	07...	--	20	20
22...	--	405	100	10...	--	13	25
23...	--	684	80	14...	--	13	15
24...	--	661	70	17...	--	11	10
25...	--	1050	95	21...	--	14	10
26...	--	1180	70	24...	--	17	20
27...	--	744	75	27...	--	30	15
28...	--	1650	180	31...	--	12	15
MAR.				SEP.			
01...	--	7500	1500	04...	--	16	15
02...	1000	3910	650	08...	--	23	10
02...	1345	3330	550	11...	--	21	10
02...	1555	2580	550	14...	--	18	10
03...	--	2120	320	18...	--	10	10
04...	--	1620	160	22...	--	9	9
05...	--	1210	110	25...	--	25	7
				28...	--	14	4
				29...	--	28	6

## PAJARO RIVER BASIN

11153470 LLAGAS CREEK ABOVE CHESBRO RESERVOIR, NEAR MORGAN HILL, CALIF.

LOCATION.--Lat 37°08'54", long 121°46'02", in Pueblo Lands of San Jose Grant, Santa Clara County, at gaging station 200 ft upstream from small left-bank tributary, 5.7 miles upstream from Chesbro Dam, and 6.4 miles west of Morgan Hill.

DRAINAGE AREA.--9.61 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1973.

Sediment records: October 1971 to September 1973.

## EXTREMES.--1972-73:

Water temperatures: Minimum, 2.0°C Dec. 11, 14, Jan. 7.

Sediment concentrations: Maximum daily, 1,090 mg/l Jan. 16; minimum daily, no flow for many days.

Sediment discharge: Maximum daily, 1,480 tons Jan. 16; minimum daily, 0 tons on many days.

## Period of record:

Water temperatures: Minimum (1972-73), 2.0°C Dec. 11, 14, 1972, Jan. 7, 1973.

Sediment concentrations: Maximum daily, 1,090 mg/l Jan. 16, 1973; minimum daily, no flow for many days each year.

Sediment discharge: Maximum daily, 1,480 tons Jan. 16, 1973; minimum daily, 0 tons on many days each year.

REMARKS.--No flow Oct. 1-9, Oct. 20 to Nov. 3, July 25 to Sept. 30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	8.0	6.0	7.0	10.0	---	---	12.0	15.0	---	---
2	---	---	8.0	---	7.0	9.0	10.0	11.0	---	---	---	---
3	---	---	9.0	6.5	9.0	9.0	---	---	12.0	---	---	---
4	---	---	10.0	5.0	7.0	10.0	10.0	11.0	---	---	---	---
5	---	---	5.0	---	9.0	8.0	---	---	12.0	---	---	---
6	---	---	6.0	---	8.0	10.0	11.0	11.0	---	---	---	---
7	---	---	6.0	2.0	8.0	9.0	---	---	14.0	---	---	---
8	---	---	5.0	5.0	9.0	9.0	10.0	11.0	---	---	---	---
9	---	---	3.0	7.0	8.0	---	---	---	15.0	15.0	---	---
10	---	---	3.0	9.0	8.0	10.0	10.0	11.0	---	---	---	---
11	---	---	2.0	9.0	9.0	---	---	---	15.0	---	---	---
12	---	---	3.0	10.0	8.0	10.0	10.0	10.0	---	---	---	---
13	---	---	3.0	10.0	8.0	---	---	---	14.0	---	---	---
14	---	---	2.0	10.0	8.0	9.0	10.0	11.0	---	---	---	---
15	---	12.0	3.0	10.0	9.0	---	---	---	15.0	---	---	---
16	---	---	5.0	10.0	8.0	10.0	10.0	11.0	---	16.0	---	---
17	---	13.0	7.0	10.0	9.0	---	---	---	15.0	---	---	---
18	---	10.0	8.0	10.0	7.0	10.0	9.0	11.0	---	---	---	---
19	---	9.0	10.0	9.0	9.0	---	---	---	15.0	---	---	---
20	---	10.0	10.0	9.0	10.0	9.0	10.0	11.0	---	---	---	---
21	---	10.0	10.0	9.0	10.0	---	---	---	14.0	---	---	---
22	---	---	10.0	8.0	10.0	10.0	10.0	11.0	---	---	---	---
23	---	---	---	---	10.0	---	---	---	15.0	17.0	---	---
24	---	---	10.0	8.0	9.0	10.0	10.0	14.0	---	---	---	---
25	---	---	---	9.0	10.0	---	---	---	15.0	---	---	---
26	---	---	---	6.0	10.0	10.0	10.0	12.0	---	---	---	---
27	---	---	8.0	5.0	10.0	---	---	---	---	---	---	---
28	---	---	8.0	7.0	6.0	9.0	9.0	10.0	13.0	---	---	---
29	---	---	8.0	---	8.0	---	---	---	---	---	---	---
30	---	---	8.0	---	7.0	---	10.0	10.0	12.0	---	---	---
31	---	---	6.0	9.0	---	---	---	---	---	---	---	---
MONTH	---	---	6.5	8.0	8.5	---	---	---	---	---	---	---

11153470 LLAGAS CREEK ABOVE CHESBRO RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

## TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	0	0	0	0	0	0	2.2	1	.01
2	0	0	0	0	0	0	1.8	1	0
3	0	0	0	0	0	0	1.8	1	0
4	0	0	0	.29	14	0	2.2	1	.01
5	0	0	0	.14	3	0	1.8	1	0
6	0	0	0	.09	3	0	5.6	16	.30
7	0	0	0	.14	3	0	4.0	4	.04
8	0	0	0	.14	3	0	3.0	5	.04
9	0	0	0	.09	3	0	2.8	5	.04
10	.30	3	0	.74	6	.01	2.5	4	.03
11	.20	3	0	2.7	26	.20	2.5	4	.03
12	.30	3	0	.80	10	.02	2.2	4	.02
13	.40	3	0	37	84	23	2.0	3	.02
14	.50	3	0	79	116	29	2.0	3	.02
15	.60	5	.01	92	246	123	1.8	3	.01
16	.30	5	0	52	118	22	1.8	3	.01
17	1.0	25	.07	25	12	.81	1.8	2	.01
18	.50	10	.01	13	9	.32	1.6	2	.01
19	.10	3	0	9.0	10	.24	1.6	6	.03
20	0	0	0	7.5	6	.12	1.4	5	.02
21	0	0	0	6.3	9	.15	1.4	5	.02
22	0	0	0	5.6	8	.12	1.3	8	.03
23	0	0	0	4.8	7	.09	1.3	8	.03
24	0	0	0	4.2	6	.07	1.1	8	.02
25	0	0	0	3.4	6	.06	1.1	9	.03
26	0	0	0	3.0	5	.04	1.1	11	.03
27	0	0	0	3.0	5	.04	.98	12	.03
28	0	0	0	2.7	4	.03	.98	12	.03
29	0	0	0	2.2	3	.02	.85	11	.03
30	0	0	0	2.2	3	.02	.85	11	.03
31	0	--	--	--	--	--	.85	11	.03
TOTAL	4.20	--	.09	357.03	--	199.36	58.21	--	.96

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	.63	7	.01	10	14	.38	69	11	2.0
2	.63	4	.01	8.0	3	.06	57	8	1.2
3	.63	2	0	12	14	1.1	52	5	.70
4	.63	4	.01	16	11	.52	49	4	.53
5	.63	6	.01	10	4	.11	44	5	.59
6	.61	7	.01	170	456	376	52	26	4.1
7	.47	7	.01	266	540	431	45	7	.80
8	2.8	3	.02	130	149	55	48	8	1.0
9	128	431	211	99	93	42	41	4	.44
10	56	27	4.8	192	392	236	38	3	.31
11	31	7	.59	153	235	100	35	3	.28
12	24	6	.39	123	94	34	32	3	.26
13	18	6	.29	112	107	34	30	3	.24
14	15	3	.12	124	229	89	27	2	.15
15	14	3	.11	103	37	10	25	2	.14
16	333	1090	1480	81	28	6.1	23	2	.12
17	161	364	190	65	24	4.2	21	3	.17
18	283	802	703	53	7	1.0	19	4	.21
19	142	250	96	44	6	.71	27	9	1.1
20	80	40	8.6	39	4	.42	32	9	.86
21	52	15	2.1	37	5	.50	28	5	.38
22	37	8	.80	32	5	.43	25	3	.20
23	28	5	.38	29	3	.23	22	2	.12
24	23	4	.25	32	40	4.2	20	1	.05
25	20	4	.22	26	3	.21	18	3	.15
26	17	4	.18	66	119	34	17	5	.23
27	15	2	.08	114	157	70	16	4	.17
28	13	3	.11	90	24	5.8	15	4	.16
29	26	76	8.6	--	--	--	13	4	.14
30	33	67	12	--	--	--	14	3	.11
31	15	12	.49	--	--	--	14	6	.23
TOTAL	1571.03	--	2720.19	2236.0	--	1536.97	968	--	17.14

## PAJARO RIVER BASIN

11153470 LLAGAS CREEK ABOVE CHESBRO RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	14	9	.34	5.2	4	.06	2.0	10	.05
2	13	11	.39	4.8	4	.05	2.0	10	.05
3	13	11	.39	4.8	3	.04	2.0	11	.06
4	13	12	.42	4.8	3	.04	1.8	12	.06
5	13	10	.35	4.8	3	.04	1.6	13	.06
6	12	7	.23	4.4	3	.04	1.4	12	.05
7	11	4	.12	4.4	3	.04	1.4	11	.04
8	11	2	.06	4.0	3	.03	1.4	12	.05
9	11	4	.12	4.0	2	.02	1.4	13	.05
10	9.9	5	.13	3.7	1	.01	1.4	12	.05
11	9.9	5	.13	3.7	1	.01	1.4	11	.04
12	9.3	5	.13	3.3	1	.01	1.4	11	.04
13	9.3	4	.10	3.3	4	.04	1.4	12	.05
14	9.3	2	.05	3.3	6	.05	1.4	10	.04
15	8.7	2	.05	3.3	4	.04	1.4	9	.03
16	8.7	3	.07	3.0	11	.09	1.4	9	.03
17	8.1	2	.04	2.8	10	.08	1.1	10	.03
18	7.5	2	.04	2.8	10	.08	.98	10	.03
19	7.5	2	.04	2.8	10	.08	.85	10	.02
20	7.0	3	.06	2.8	10	.08	.63	10	.02
21	7.0	2	.04	2.8	10	.08	.63	11	.02
22	6.5	2	.04	2.8	11	.08	.63	11	.02
23	6.5	4	.07	2.5	5	.03	.74	11	.02
24	6.0	5	.08	2.8	2	.02	.74	12	.02
25	6.0	5	.08	2.5	6	.04	.54	14	.02
26	5.6	5	.08	2.5	10	.07	.46	13	.02
27	5.6	6	.09	2.2	10	.06	.46	13	.02
28	5.6	8	.12	2.2	10	.06	.54	13	.02
29	5.6	6	.09	2.0	10	.05	.46	13	.02
30	5.2	5	.07	2.0	10	.05	.46	13	.02
31	--	--	--	2.0	10	.05	--	--	--
TOTAL	265.8	--	4.02	102.3	--	1.52	34.02	--	1.05

DAY	JULY			AUGUST			SEPTEMBER		
	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	.39	13	.01						
2	.39	13	.01						
3	.33	13	.01						
4	.27	13	.01						
5	.27	13	.01						
6	.27	13	.01						
7	.33	13	.01						
8	.27	13	.01						
9	.26	23	.02						
10	.22	16	.01						
11	.22	16	.01						
12	.22	16	.01						
13	.18	16	.01						
14	.07	16	0						
15	.18	16	.01						
16	.22	16	.01						
17	.22	16	.01						
18	.27	16	.01						
19	.27	16	.01						
20	.27	16	.01						
21	.22	16	.01						
22	.14	16	.01						
23	.01	20	0						
24	.11	1	0						
25	0	0	0						
26	0	0	0						
27	0	0	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	0	0	0						
TOTAL	5.60	--	.22	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)  
TOTAL-SEDIMENT DISCHARGE FOR YEAR (TONS)

5602.19  
4481.52



11153470 LLAGAS CREEK ABOVE CHESBRO RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDI- MENT (MG/L)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM	TOTAL SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
15...	1545	12.0	69	68	13	--	--	--	--	--	--
DEC.											
06...	0915	6.0	9.3	40	1.0	--	--	--	--	--	--
JAN.											
09...	0840	7.0	96	179	46	--	--	--	--	--	95
09...	1335	8.0	239	876	565	38	46	54	63	70	77
09...	1640	8.0	250	1080	729	39	44	56	68	76	85
16...	0840	10.0	775	2980	6240	26	34	42	52	64	72
16...	1015	10.0	749	2210	4470	27	35	45	56	66	74
16...	1140	10.0	614	2170	3600	24	33	43	53	64	73
17...	1445	10.0	125	164	55	--	--	--	--	--	89
18...	0845	10.0	474	2170	2780	18	19	25	30	37	46
18...	1045	10.0	375	735	744	--	--	--	--	--	36
18...	1255	10.0	357	1030	993	--	--	--	--	--	26
19...	0840	9.0	149	275	111	--	--	--	--	--	--
FEB.											
06...	0835	8.0	103	280	78	--	--	--	--	--	--

DATE	TOTAL SED. SIEVE DIAM. % FINER THAN .062 MM	TOTAL SED. FALL DIAM. % FINER THAN .125 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .125 MM	TOTAL SED. FALL DIAM. % FINER THAN .250 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .250 MM	TOTAL SED. FALL DIAM. % FINER THAN .500 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .500 MM	TOTAL SED. FALL DIAM. % FINER THAN 1.00 MM	TOTAL SED. FALL DIAM. % FINER THAN 1.00 MM	TOTAL SED. FALL DIAM. % FINER THAN 2.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.											
15...	98	--	99	--	100	--	--	--	--	--	--
DEC.											
06...	100	--	--	--	--	--	--	--	--	--	--
JAN.											
09...	--	98	--	99	--	100	--	--	--	--	--
09...	--	88	--	97	--	100	--	--	--	--	--
09...	--	92	--	98	--	100	--	--	--	--	--
16...	--	87	--	96	--	98	--	100	--	--	--
16...	--	86	--	94	--	100	--	--	--	--	--
16...	--	88	--	95	--	99	--	100	--	--	--
17...	--	97	--	99	--	100	--	--	--	--	--
18...	--	65	--	85	--	95	--	97	--	100	--
18...	--	52	--	71	--	85	--	100	--	--	--
18...	--	40	--	61	--	81	--	100	--	--	--
19...	46	--	62	--	79	--	87	--	91	--	100
FEB.											
06...	59	--	68	--	77	--	85	--	90	--	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM
OCT.							
27...	1000	1	.00	1	1	2	3
27...	1005	1	.00	1	1	3	8
27...	1010	1	.00	--	--	1	1

DATE	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.						
27...	5	13	45	100	--	--
27...	16	24	36	60	82	100
27...	5	28	48	52	64	100

LOCATION.--Lat 37°05'34", long 121°43'02", in Las Uvas Grant, Santa Clara County, at gaging station 0.6 mile downstream from Little Uvas Creek, 0.9 mile upstream from Hay Canyon, and 4.4 miles southwest of Morgan Hill.

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1973.

EXTREMES, --1972-73:

Sediment concentrations: Maximum daily, 1,470 mg/l Jan. 16; minimum daily, 1 mg/l on several days.

Sediment discharge: Maximum daily, 7,440 tons Jan. 16; minimum daily, 0 tons on many days.

Period of record:

Sediment concentrations: Maximum daily, 2,400 mg/l Jan. 21, 1967; minimum daily, 0 mg/l on several days in 1970 and 1971.

Sediment discharge: Maximum daily 22,200 tons Jan. 21, 1967; minimum daily, 0 tons on many days in 1965-73.

REMARKS.--Zero bedload discharge observed at flows less than 93 cfs.

[illegible]

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.19	3	0	.75	12	.02	5.5	12	.18
2	.25	3	0	.79	11	.02	5.0	10	.14
3	.31	3	0	.87	9	.02	4.7	8	.10
4	.29	6	0	3.9	22	.22	5.9	6	.10
5	.26	10	.01	2.3	15	.09	4.9	12	.16
6	.24	8	.01	1.6	14	.06	36	29	3.7
7	.18	7	0	1.9	17	.09	18	17	.83
8	.20	7	0	2.2	19	.11	14	14	.53
9	.21	12	0	1.8	13	.06	11	13	.39
10	1.6	45	.25	6.9	52	1.3	9.6	11	.29
11	.94	27	.06	24	93	6.6	8.7	8	.19
12	1.1	25	.08	7.4	38	.76	7.8	8	.17
13	1.5	23	.08	235	248	446	7.5	7	.14
14	2.0	34	.23	499	338	538	7.2	6	.12
15	3.2	44	.40	420	168	340	6.9	6	.11
16	2.4	28	.19	183	67	46	6.5	6	.11
17	7.6	53	1.4	56	24	3.6	6.8	10	.18
18	3.7	33	.33	31	22	1.8	6.4	10	.17
19	1.7	22	.10	21	20	1.1	6.7	9	.16
20	1.3	18	.06	17	18	.83	6.5	9	.16
21	1.1	17	.05	14	17	.64	6.4	8	.14
22	1.0	17	.05	11	16	.48	7.1	8	.15
23	.93	17	.04	10	15	.41	6.9	8	.15
24	.78	17	.04	8.9	16	.38	6.6	7	.12
25	.73	16	.03	8.0	17	.37	6.4	7	.12
26	.73	14	.03	7.0	16	.30	6.1	7	.12
27	.72	14	.03	6.6	15	.27	6.1	6	.10
28	.74	13	.03	6.2	15	.25	6.1	6	.10
29	.73	12	.02	5.9	14	.22	5.7	6	.09
30	.69	12	.02	5.7	14	.22	5.2	5	.07
31	.72	12	.02	--	--	--	5.0	5	.07
TOTAL	38.04	--	3.56	1599.71	--	1390.22	253.2	--	9.16

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	4.5	5	.06	60	17	2.8	164	16	7.1
2	4.5	4	.05	54	16	2.3	124	15	5.0
3	4.8	4	.05	82	49	16	112	18	5.7
4	4.4	4	.05	102	53	15	106	19	5.4
5	4.3	4	.05	77	22	4.8	94	17	4.3
6	4.3	4	.05	506	414	1470	170	54	30
7	4.1	4	.04	886	529	1890	115	31	9.7
8	20	30	3.4	303	70	57	142	31	14
9	916	670	2060	236	52	35	102	12	3.3
10	178	61	40	526	188	339	91	10	2.5
11	78	30	6.3	388	102	114	84	8	1.8
12	67	26	4.7	309	70	63	72	6	1.2
13	52	22	3.1	327	70	62	64	3	.52
14	44	20	2.4	438	148	234	58	3	.47
15	40	17	1.8	294	40	32	53	3	.43
16	1050	1470	7440	221	28	17	50	3	.41
17	367	135	158	170	23	11	46	3	.37
18	663	595	1220	132	19	6.8	43	3	.35
19	297	120	96	108	14	4.1	92	15	7.9
20	178	35	17	95	9	2.3	88	19	5.1
21	121	22	7.2	79	7	1.5	73	14	2.9
22	92	14	3.5	70	6	1.1	62	7	1.2
23	74	8	1.6	62	5	.84	54	5	.73
24	64	9	1.6	78	46	12	50	5	.68
25	60	12	1.9	59	26	4.1	47	4	.51
26	52	16	2.2	195	166	122	45	3	.36
27	46	17	2.1	399	277	485	41	3	.33
28	42	15	1.7	255	57	39	38	3	.31
29	58	42	7.4	--	--	--	36	3	.29
30	150	73	35	--	--	--	35	2	.19
31	73	18	3.5	--	--	--	34	2	.18
TOTAL	4812.9	--	11120.75	6511	--	5043.64	2385	--	113.23

## PAJARO RIVER BASIN

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	30	2	.16	11	2	.06	4.6	13	.16
2	29	3	.23	11	2	.06	4.6	13	.16
3	27	3	.22	11	2	.06	4.5	12	.15
4	26	9	.63	11	2	.06	4.3	11	.13
5	24	6	.39	11	2	.06	4.3	10	.12
6	24	3	.19	10	3	.08	4.3	10	.12
7	22	3	.18	10	3	.08	3.7	10	.10
8	21	3	.17	10	3	.08	3.5	10	.09
9	21	3	.17	9.7	4	.10	3.6	11	.11
10	20	3	.16	9.4	6	.15	4.1	16	.18
11	19	2	.10	9.1	10	.25	4.0	21	.23
12	19	2	.10	8.8	10	.24	4.0	19	.21
13	19	3	.15	8.5	10	.23	3.7	15	.15
14	18	3	.15	8.5	10	.23	3.7	13	.13
15	17	4	.18	8.2	10	.22	3.1	13	.11
16	17	4	.18	7.5	10	.20	3.5	13	.12
17	16	3	.13	7.3	10	.20	3.3	13	.12
18	15	3	.12	6.8	10	.18	3.2	13	.11
19	15	3	.12	6.8	10	.18	3.1	14	.12
20	14	3	.11	6.8	10	.18	2.6	16	.11
21	14	3	.11	6.8	11	.20	2.3	20	.12
22	13	3	.11	6.6	11	.20	2.2	23	.14
23	13	4	.14	6.4	11	.19	2.5	22	.15
24	13	4	.14	5.9	11	.18	2.1	16	.09
25	12	3	.10	5.5	11	.16	2.5	13	.09
26	12	3	.10	5.2	12	.17	2.4	13	.08
27	12	3	.10	5.7	12	.18	2.0	12	.06
28	12	2	.06	5.4	12	.17	1.9	12	.06
29	12	2	.06	5.0	13	.18	2.1	12	.07
30	12	1	.03	4.6	13	.16	1.9	12	.06
31	--	--	--	4.6	13	.16	--	--	--
TOTAL	538	--	4.79	244.1	--	4.85	97.6	--	3.65

DAY	JULY			AUGUST			SEPTEMBER		
	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	1.7	12	.06	1.1	20	.06	.40	19	.02
2	1.9	13	.07	1.1	21	.06	.46	17	.02
3	1.4	12	.05	1.1	22	.07	.59	16	.03
4	1.5	14	.06	.85	18	.04	.43	14	.02
5	1.0	15	.04	.90	13	.03	.59	6	.01
6	1.5	16	.06	1.2	11	.04	.55	4	.01
7	1.5	17	.07	1.1	10	.03	.55	4	.01
8	1.6	18	.08	1.1	10	.03	.32	3	0
9	1.7	19	.09	.90	10	.02	.32	3	0
10	1.3	15	.05	1.1	10	.03	.55	2	0
11	1.5	17	.07	.90	10	.02	.40	2	0
12	1.5	19	.08	.75	11	.02	.59	2	0
13	1.5	22	.09	.96	11	.03	.49	2	0
14	1.3	23	.08	.71	11	.02	.67	2	0
15	1.3	23	.08	.80	12	.03	.63	2	0
16	1.7	24	.11	.52	12	.02	.63	2	0
17	1.4	23	.09	.63	13	.02	.71	1	0
18	1.7	23	.11	.49	12	.02	.52	1	0
19	1.4	23	.09	.49	11	.01	.55	1	0
20	1.6	22	.10	.71	11	.02	.46	1	0
21	1.6	22	.10	.46	11	.01	.67	1	0
22	1.5	22	.09	.63	11	.02	.55	2	0
23	1.5	20	.08	.52	11	.02	.63	3	.01
24	1.3	17	.06	.67	11	.02	.71	3	.01
25	1.3	14	.05	.55	11	.02	.52	3	0
26	.85	13	.03	.55	11	.02	.67	2	0
27	.90	12	.03	.85	12	.03	.40	2	0
28	.96	12	.03	.63	14	.02	.46	2	0
29	1.0	12	.03	.63	20	.03	.30	2	0
30	1.2	16	.05	.43	24	.03	.37	2	0
31	.96	23	.06	.52	22	.03	--	--	--
TOTAL	43.07	--	2.14	23.85	--	.87	15.69	--	.14

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

16562.16

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

17697.00

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1972	38.04	3.56	0	4
NOVEMBER ...	1599.71	1390.22	27	1420
DECEMBER ...	253.20	9.16	0	9
JANUARY 1973	4812.90	11120.75	418	11500
FEBRUARY ...	6511.00	5043.64	205	5250
MARCH .....	2385.00	113.23	0	113
APRIL .....	534.00	4.79	0	5
MAY .....	244.10	4.85	0	5
JUNE .....	97.60	3.65	0	4
JULY .....	43.07	2.14	0	2
AUGUST .....	23.85	0.87	0	1
SEPTEMBER ..	15.69	0.14	0	0
TOTAL .....	16562.16	17697.00	650	18313

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
15...	1255	12.0	139	17	6.4	--	--	--	--	--	--
JAN.											
09...	1030	10.0	1140	612	1880	44	56	67	79	88	--
10...	1105	9.0	158	33	14	--	--	--	--	--	--
17...	1205	10.5	324	86	75	--	--	--	--	--	--
18...	1145	10.0	1010	646	1760	21	27	36	45	52	--
FEB.											
06...	1145	10.0	398	375	403	--	--	--	--	--	55
07...	0940	12.0	810	465	1020	36	45	57	69	80	--
27...	1245	12.0	760	888	1820	--	--	--	--	--	--
27...	1710	14.0	640	265	458	--	--	--	--	--	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.										
15...	95	--	100	--	--	--	--	--	--	--
JAN.										
09...	94	--	97	--	100	--	--	--	--	--
10...	94	--	96	--	100	--	--	--	--	--
17...	90	--	92	--	95	--	100	--	--	--
18...	57	--	60	--	68	--	95	--	100	--
FEB.										
06...	--	67	--	81	--	98	--	100	--	--
07...	87	--	91	--	98	--	100	--	--	--
27...	65	--	70	--	79	--	92	--	98	100
27...	88	--	98	--	100	--	--	--	--	--

## PAJARO RIVER BASIN

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)		
DEC. 05...	1145	7.0	--	4.8	8.5	.00		
JAN. 03...	1040	5.0	--	4.5	8.7	.00		
10...	1120	9.0	2	144	41	2.6		
17...	1230	10.5	25	287	52	2.8		
18...	1430	10.0	10	823	54	9.8		
FEB. 06...	1220	10.0	3	489	55	8.2		
20...	1250	11.5	1	93	22	.00		
APR. 04...	1120	12.0	--	28	18	.00		
JULY 09...	1250	21.5	--	1.6	5.1	.00		
AUG. 01...	1115	21.0	--	1.2	4.4	.00		
SEP. 01...	1150	19.5	--	.37	3.5	.00		

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
JAN. 10...	1120	9.0	2	144	41	2.6	--	5
17...	1230	10.5	25	287	52	2.8	--	7
18...	1430	10.0	10	823	54	9.8	1	10
FEB. 06...	1220	10.0	3	489	55	8.2	--	13

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. 10...	26	45	71	89	100	--	--	--
17...	34	52	67	85	100	--	--	--
18...	54	79	84	89	96	100	--	--
FEB. 06...	42	55	66	77	87	94	96	100

## PAJARO RIVER BASIN

229

11159000 PAJARO RIVER AT CHITTENDEN, CALIF.

LOCATION.--Lat 36°54'01", long 121°35'48", in Salsipuedes Grant, Santa Cruz County, at gaging station at bridge on State Highway 129, 0.6 mile downstream from Pescadero Creek, 0.6 mile southeast of Chittenden, and 2.3 miles downstream from San Benito River.

DRAINAGE AREA.--1,186 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1966, water years 1967-69 (partial-record station), November 1969 to September 1971, water years 1972-73 (partial-record station).

REMARKS.--Records furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
JAN. 23...	0940	442	30	18	27	148	0	121	22	--	--
JULY 18...	0945	8.0	--	--	--	533	0	437	--	1.6	1.0

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	SUS- PENDE D SOLIDS (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
JAN. 23...	--	--	--	149	28	1.0	270	7.5	8.0	9.7	200
JULY 18...	.40	.12	45	550	110	--	1400	8.4	18.5	10.4	--

## SOQUEL CREEK BASIN

## 11160000 SOQUEL CREEK AT SOQUEL, CALIF.

LOCATION.--Lat 36°59'29", long 121°57'17", in NE¼ sec.10, T.11 S., R.1 W., Santa Cruz County, temperature recorder at gaging station on left bank, 0.2 mile upstream from highway bridge in town of Soquel, and 0.4 mile downstream from Bates Creek.

DRAINAGE AREA.--40.2 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1965, water year 1966 (partial-record station).

Water temperatures: January 1966 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 21.0°C Oct. 7, June 26; minimum, 3.0°C Dec. 11, 12, 14, Jan. 7.

Period of record:

Water temperatures: Maximum (1967-69, 1970-73), 30.5°C Aug. 29, 1968; minimum (1968-73), 3.0°C Jan. 5, 1970, Dec. 11, 12, 14, 1972, Jan. 7, 1973.

REMARKS.--Recorder stopped Oct. 1-6, 10-19, Oct. 21 to Nov. 3, Jan. 26-31. Where no maximum or minimum is shown, temperature is once-daily reading.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	--	--	--	--	10.0	7.5	8.5	5.0	10.0	7.5	12.0	11.5
2	--	--	--	--	10.0	7.0	8.0	4.5	10.0	8.5	11.5	10.0
3	--	--	--	15.0	11.0	9.0	8.0	5.0	10.0	9.5	11.0	10.5
4	--	--	15.0	12.5	10.5	8.0	8.0	4.0	11.5	10.0	11.0	10.5
5	--	--	14.0	11.0	8.5	6.0	7.0	3.5	11.0	9.5	10.5	9.5
6	--	16.0	13.5	10.0	9.0	7.0	7.0	4.0	11.5	11.0	11.0	10.0
7	21.0	15.5	14.0	11.5	8.0	7.0	6.5	3.0	12.0	11.0	10.5	9.5
8	20.0	16.5	13.0	9.5	7.0	5.0	8.0	6.0	12.5	11.0	10.5	9.5
9	20.0	14.5	13.0	10.0	5.5	3.5	9.5	8.0	12.0	10.5	10.5	9.0
10	--	--	13.0	11.5	6.0	3.5	10.0	9.0	12.0	11.0	10.5	9.5
11	--	--	12.0	10.5	5.0	3.0	10.5	9.5	11.5	10.5	10.0	9.5
12	--	--	11.5	9.0	5.0	3.0	11.5	10.0	11.0	10.5	9.5	8.5
13	--	--	11.5	10.5	6.0	3.5	11.0	9.0	12.0	10.5	9.0	8.5
14	--	--	12.0	11.0	5.5	3.0	11.0	9.0	11.0	10.0	9.5	8.5
15	--	--	12.0	11.5	6.0	3.5	11.0	10.0	11.0	9.0	9.5	8.5
16	--	--	11.5	11.0	7.5	5.5	11.0	10.5	11.0	9.5	9.5	9.0
17	--	--	11.5	10.5	8.5	7.5	10.5	10.0	11.0	9.5	10.0	9.5
18	--	--	11.5	10.0	11.5	8.5	10.5	9.0	11.0	9.5	9.5	8.5
19	--	--	11.0	9.5	11.5	10.5	9.0	7.5	11.0	9.5	9.5	9.0
20	19.0	14.5	11.0	9.0	11.5	9.5	9.0	7.0	11.5	10.5	9.5	8.0
21	--	13.0	11.0	9.0	11.5	9.5	10.5	8.5	11.5	11.0	9.5	8.0
22	--	--	11.5	9.5	12.0	9.5	9.0	7.5	12.0	11.0	10.0	7.0
23	--	--	10.5	8.0	11.5	8.5	9.0	6.5	11.5	11.0	10.0	7.5
24	--	--	11.0	9.0	11.5	9.0	9.0	7.0	12.5	11.5	10.5	8.5
25	--	--	11.0	8.5	11.0	8.0	10.0	8.0	13.0	12.0	10.0	9.5
26	--	--	11.0	8.5	11.0	7.5	--	--	12.5	12.0	10.0	9.0
27	--	--	12.0	9.0	10.5	8.0	--	--	12.5	12.0	10.5	9.5
28	--	--	11.0	8.0	9.5	6.5	--	--	12.0	11.5	10.5	9.0
29	--	--	11.0	8.0	9.0	6.0	--	--	--	--	10.0	8.5
30	--	--	11.0	7.5	8.0	5.0	--	--	--	--	10.0	9.0
31	--	--	--	--	8.0	5.0	--	--	--	--	11.0	9.5
MONTH	--	--	15.0	7.5	12.0	3.0	11.5	3.0	13.0	7.5	12.0	7.0
DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	10.5	9.0	15.5	12.0	17.0	14.0	19.0	15.5	20.5	16.5	19.0	15.0
2	11.0	8.5	15.5	11.5	18.0	14.5	19.0	16.0	20.0	16.5	18.5	14.5
3	11.5	9.0	16.0	12.0	17.0	15.0	19.0	15.0	20.0	16.5	18.0	15.0
4	12.5	9.5	15.0	12.0	17.5	15.0	19.5	15.5	20.0	16.5	16.0	15.0
5	13.0	10.5	15.5	11.0	14.5	15.0	20.0	16.0	18.5	16.5	17.0	14.5
6	13.5	11.0	16.0	12.5	19.0	15.5	19.5	16.0	19.5	17.0	18.5	14.0
7	14.0	11.0	16.0	12.0	19.5	15.5	19.0	16.0	20.0	16.5	18.5	14.5
8	13.5	10.5	16.0	11.5	20.0	16.5	19.5	16.0	19.5	17.0	19.0	15.0
9	12.5	11.0	16.0	12.0	20.0	17.0	19.5	15.5	20.0	16.5	17.0	15.0
10	14.5	11.5	17.0	12.5	18.0	16.5	19.5	16.5	20.0	16.5	17.5	16.0
11	15.0	11.5	17.5	13.5	16.5	15.5	18.5	16.0	20.0	16.5	19.0	15.5
12	15.0	12.5	16.0	14.0	18.0	15.0	18.0	16.0	20.0	16.5	18.5	16.0
13	14.5	12.0	16.0	13.5	17.0	15.0	17.5	16.0	20.0	16.5	18.0	15.5
14	14.0	11.5	15.0	13.0	17.0	14.0	17.0	16.0	20.0	16.5	18.5	14.5
15	14.0	11.5	15.0	13.0	17.5	13.5	17.0	15.5	20.0	16.5	16.0	15.0
16	14.5	11.0	17.0	13.0	18.5	14.5	17.5	16.0	20.0	16.0	18.0	15.0
17	15.0	12.0	17.5	14.0	18.5	14.0	17.5	16.0	19.0	16.0	17.5	14.5
18	14.0	10.0	17.0	14.5	19.0	14.0	17.0	16.0	19.5	16.0	18.5	15.5
19	14.0	10.5	16.0	14.5	19.5	15.0	17.5	15.5	19.5	15.5	19.0	16.0
20	14.0	10.0	16.5	13.5	20.5	15.5	19.0	15.5	19.5	15.5	19.0	16.5
21	14.5	10.0	15.5	13.5	20.0	17.0	19.5	15.5	19.5	15.5	18.5	15.0
22	15.0	11.0	17.0	13.5	19.0	16.5	19.5	16.0	19.5	15.0	18.0	15.0
23	15.5	12.0	17.0	13.5	19.0	16.0	19.0	15.5	19.0	14.5	18.5	16.0
24	15.0	11.5	16.5	14.5	19.5	16.0	19.5	15.5	19.5	15.0	17.0	15.0
25	15.5	11.5	18.0	15.0	20.5	16.5	20.0	15.5	19.5	15.5	17.5	14.0
26	15.5	12.0	17.0	13.5	21.0	17.5	20.0	16.0	19.0	16.0	18.5	14.0
27	14.5	12.5	17.5	13.5	19.0	17.5	20.0	17.0	19.0	15.5	19.0	14.5
28	15.5	12.5	19.0	15.0	20.0	16.5	19.5	17.0	20.0	15.0	19.0	15.0
29	14.0	11.5	19.0	15.5	20.0	16.5	19.5	16.5	17.5	15.5	18.0	15.0
30	15.0	11.0	17.0	15.0	19.5	16.0	20.0	16.5	19.0	15.5	16.0	15.0
31	--	--	15.0	14.0	--	--	20.0	16.5	19.0	16.0	--	--
MONTH	15.5	8.5	19.0	11.0	21.0	13.5	20.0	15.0	20.5	14.5	19.0	14.0



## 11160300 ZAYANTE CREEK AT ZAYANTE, CALIF.

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

DRAINAGE AREA.--11.1 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1973 (partial-record station).

Water temperatures: February 1970 to September 1973 (discontinued).

Sediment records: February 1970 to September 1973 (discontinued).

EXTREMES.--1972-73:

Water temperatures: Minimum, 2.5°C Dec. 11, 12, Jan. 7.

Sediment concentrations: Maximum daily, 9,640 mg/l Jan. 16; minimum daily, 1 mg/l on several days.

Sediment discharge: Maximum daily, 36,100 tons Jan. 16; minimum daily, 0 tons on many days.

Period of record:

Water temperatures (1970-73): Minimum, 2.0°C Jan. 9, 10, 1972.

Sediment concentrations: Maximum daily, 9,640 mg/l Jan. 16, 1973; minimum daily, 1 mg/l on many days each year.

Sediment discharge: Maximum daily, 36,100 tons Jan. 16, 1973; minimum daily, 0 tons on many days each year.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
MAY 05...	1400	4.9	--	--	--	--	--	--
JULY 24...	1155	.92	74	17	99	29	.00	.01

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	HARD- NESS (CA, MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
MAY 05...	--	--	525	8.1	12.5	4	10.7
JULY 24...	.01	250	612	8.4	14.5	--	9.9

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	9.5	6.0	5.0	7.5	12.0	---	11.5	14.0	14.5	16.0	---
2	13.0	---	5.5	5.0	8.0	---	9.0	10.0	---	---	---	---
3	---	11.0	8.0	5.0	9.0	9.5	---	---	15.0	14.5	16.0	13.0
4	---	12.5	8.5	5.0	10.0	10.5	10.0	12.0	---	---	---	---
5	15.0	---	6.0	3.5	10.0	---	---	---	15.0	16.5	---	13.0
6	14.0	9.0	6.0	4.0	10.5	10.0	11.0	12.5	---	---	15.0	---
7	---	---	6.0	2.5	10.5	---	---	---	15.0	---	---	13.0
8	---	---	5.0	4.0	10.5	10.0	10.0	11.0	---	---	16.0	---
9	15.0	---	3.5	9.0	11.0	---	---	---	16.0	16.0	---	---
10	14.0	10.0	3.0	9.5	11.0	11.0	12.0	11.0	---	---	14.0	14.0
11	---	11.0	2.5	10.0	10.0	---	---	---	14.0	15.0	---	---
12	---	---	2.5	11.0	10.0	10.0	10.5	14.0	---	---	---	13.0
13	13.0	11.0	4.0	9.5	11.0	---	---	---	14.5	14.5	15.0	---
14	---	11.0	3.0	9.0	11.5	8.0	11.0	13.0	---	---	---	14.0
15	14.0	---	4.0	10.5	9.0	---	---	---	13.0	---	16.5	---
16	14.0	12.0	5.0	12.0	10.0	7.0	12.0	12.0	---	15.0	---	---
17	---	10.5	7.0	11.0	---	---	---	---	14.0	---	14.0	14.0
18	---	10.0	8.0	11.0	9.0	9.0	10.0	15.0	---	15.0	---	---
19	---	9.5	10.0	9.0	---	---	---	---	15.0	---	---	13.0
20	13.5	8.5	10.0	7.0	9.0	9.0	9.5	13.0	17.0	15.0	15.0	---
21	---	8.0	10.0	10.0	---	10.0	---	---	16.0	---	---	13.0
22	---	9.0	10.0	8.0	9.0	---	11.0	13.0	---	---	12.0	---
23	14.0	7.0	8.0	7.0	---	9.0	---	---	15.0	13.0	---	---
24	---	8.0	10.0	6.5	11.0	---	11.0	14.0	---	---	13.0	13.5
25	---	7.5	9.0	9.0	11.5	10.0	---	---	16.5	14.0	---	---
26	---	7.5	7.0	6.0	11.0	---	11.0	12.0	---	---	---	12.0
27	11.0	9.0	7.0	5.0	12.0	10.0	---	---	17.0	15.0	14.5	---
28	---	7.0	7.0	6.5	11.0	---	12.0	16.0	---	---	---	14.0
29	---	7.5	5.5	6.5	---	9.0	---	---	16.0	---	14.0	---
30	9.0	7.0	5.0	9.0	---	---	11.0	15.5	---	15.5	---	13.5
31	---	---	5.0	9.0	---	9.0	---	---	---	---	15.5	---
MONTH	---	---	6.5	7.5	10.0	---	---	---	---	---	---	---

## SAN LORENZO RIVER BASIN

11160300 ZAYANTE CREEK AT ZAYANTE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.30	7	.01	.77	8	.02	2.7	7	.05
2	.35	4	0	.77	8	.02	2.5	2	.01
3	.40	4	0	1.0	9	.02	2.8	15	.11
4	.35	5	0	5.7	428	7.6	4.2	28	.32
5	.30	5	0	1.6	180	.78	3.0	7	.06
6	.26	6	0	1.1	85	.25	8.0	790	17
7	.20	6	0	2.1	64	.40	6.5	70	1.2
8	.23	7	0	1.4	22	.08	5.5	25	.37
9	.57	104	.43	1.1	15	.04	4.6	7	.09
10	2.5	343	3.3	5.5	193	4.0	4.2	9	.10
11	1.0	75	.20	14	3000	146	4.0	9	.10
12	1.2	55	.18	4.4	550	6.5	3.8	14	.14
13	.77	24	.05	107	2150	1770	3.6	12	.12
14	2.6	326	3.5	100	1380	506	3.3	5	.04
15	7.7	1550	37	118	2140	1540	3.0	10	.08
16	5.1	465	12	47	298	54	3.0	7	.06
17	6.9	1010	21	16	38	1.8	3.6	6	.06
18	3.6	460	5.2	9.9	17	.45	3.2	4	.03
19	1.8	150	.73	7.8	10	.21	4.0	7	.08
20	1.4	111	.42	6.8	11	.20	3.3	11	.10
21	1.2	90	.29	5.8	14	.22	3.0	3	.02
22	1.1	60	.18	5.3	5	.07	3.6	4	.04
23	1.0	32	.09	4.9	6	.08	3.0	19	.15
24	.92	26	.06	4.6	5	.06	3.0	14	.11
25	.84	20	.05	4.2	4	.05	2.8	3	.02
26	.84	14	.03	3.8	3	.03	2.6	3	.02
27	.84	8	.02	3.5	3	.03	2.5	2	.01
28	.77	8	.02	3.2	3	.03	2.3	3	.02
29	.77	7	.01	3.0	3	.02	2.2	3	.02
30	.77	7	.01	2.8	3	.02	2.1	2	.01
31	.70	8	.02	--	--	--	2.0	2	.01
TOTAL	47.28	--	84.80	493.04	--	4038.98	107.9	--	20.55

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	1.8	2	.01	20	20	1.1	89	279	74
2	1.7	3	.01	18	16	.78	61	50	8.2
3	1.7	3	.01	83	1470	736	62	116	22
4	1.7	2	.01	76	726	193	53	47	6.7
5	1.7	4	.02	43	150	17	43	20	2.3
6	1.6	2	.01	356	7480	11000	76	645	190
7	1.6	2	.01	148	1620	729	51	87	12
8	12	343	25	68	220	40	48	115	15
9	114	2040	741	139	1670	1540	40	35	3.8
10	35	199	23	356	5710	7100	36	28	2.7
11	22	91	5.4	268	3110	2750	35	20	1.9
12	23	70	4.3	143	683	285	31	14	1.2
13	18	30	1.5	160	1010	480	28	12	.91
14	14	22	.83	131	730	276	25	10	.68
15	14	29	1.4	81	130	28	24	6	.39
16	748	9640	36100	62	83	14	22	3	.18
17	117	1440	531	53	60	8.6	22	4	.24
18	358	8050	8780	42	30	3.4	20	6	.32
19	172	1230	452	38	25	2.6	35	178	33
20	60	160	26	33	23	2.0	26	69	5.6
21	40	96	10	29	25	2.0	28	114	9.5
22	30	38	3.1	26	30	2.1	23	60	3.7
23	26	20	1.4	24	20	1.3	20	8	.43
24	24	14	.91	36	238	29	19	6	.31
25	22	22	1.3	23	30	1.9	18	5	.24
26	20	12	.65	99	1820	920	17	6	.28
27	19	8	.41	303	5960	7670	16	7	.30
28	18	16	.78	249	2550	2390	15	6	.24
29	24	252	16	--	--	--	14	4	.15
30	28	215	16	--	--	--	14	4	.15
31	22	52	3.1	--	--	--	14	4	.15
TOTAL	1941.8	--	46745.16	3107	--	36222.78	1025	--	396.57

## SAN LORENZO RIVER BASIN

233

11160300 ZAYANTE CREEK AT ZAYANTE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	13	4	.14	5.5	2	.03	3.3	1	.01
2	12	3	.10	5.3	2	.03	3.3	2	.02
3	11	3	.09	5.1	2	.03	3.3	3	.03
4	11	4	.12	5.1	2	.03	3.3	4	.04
5	11	3	.09	4.9	2	.03	3.2	4	.03
6	10	2	.05	4.7	1	.01	2.9	3	.02
7	10	2	.05	4.7	1	.01	2.8	1	.01
8	9.3	1	.03	4.7	1	.01	2.6	1	.01
9	9.0	2	.05	4.7	1	.01	2.5	1	.01
10	9.0	2	.05	4.6	1	.01	2.3	8	.05
11	9.0	2	.05	4.4	2	.02	2.5	15	.10
12	9.0	3	.07	4.4	2	.02	2.6	15	.11
13	8.6	2	.05	4.4	2	.02	2.6	14	.10
14	8.6	2	.05	4.4	1	.01	2.6	14	.10
15	8.3	2	.04	4.4	2	.02	2.6	15	.11
16	8.0	2	.04	4.2	2	.02	2.6	14	.10
17	7.8	2	.04	4.0	2	.02	2.8	13	.10
18	7.8	3	.06	3.8	2	.02	2.6	14	.10
19	7.5	4	.08	3.8	2	.02	2.5	13	.09
20	7.1	4	.08	3.8	2	.02	2.2	4	.02
21	6.8	4	.07	3.8	2	.02	2.1	26	.15
22	6.8	5	.09	3.8	3	.03	2.0	25	.14
23	6.5	4	.07	3.8	3	.03	2.0	25	.14
24	6.5	3	.05	3.8	3	.03	2.0	21	.11
25	6.5	4	.07	3.6	2	.02	1.7	16	.07
26	6.5	5	.09	3.5	2	.02	1.6	16	.07
27	6.3	5	.09	3.3	2	.02	1.7	16	.07
28	6.3	5	.09	3.3	3	.03	1.7	15	.07
29	6.3	5	.09	3.2	2	.02	1.7	15	.07
30	6.0	5	.08	3.2	2	.02	1.6	15	.06
31	--	--	--	3.3	2	.02	--	--	--
TOTAL	251.5	--	2.12	129.5	--	.65	73.2	--	2.11

DAY	JULY			AUGUST			SEPTEMBER		
	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	1.6	15	.06	.70	10	.02	.63	6	.01
2	1.5	15	.06	.77	6	.01	.57	5	.01
3	1.4	14	.05	.77	2	0	.63	5	.01
4	1.3	14	.05	.77	2	0	.57	4	.01
5	1.2	14	.05	.77	3	.01	.63	3	.01
6	1.2	14	.05	.84	3	.01	.57	3	0
7	1.2	16	.05	.84	3	.01	.57	3	0
8	1.3	18	.06	.84	2	0	.45	4	0
9	1.2	18	.06	.84	2	0	.40	6	.01
10	1.2	16	.05	.77	2	0	.51	7	.01
11	1.1	15	.04	.77	2	0	.57	5	.01
12	1.2	15	.05	.77	3	.01	.51	2	0
13	1.2	14	.05	.92	3	.01	.51	2	0
14	1.2	14	.05	.77	3	.01	.51	2	0
15	1.3	14	.05	.63	3	.01	.51	3	0
16	1.3	14	.05	.57	7	.01	.57	3	0
17	1.3	15	.05	.57	11	.02	.57	4	.01
18	1.2	15	.05	.63	9	.02	.57	3	0
19	1.2	16	.05	.63	7	.01	.57	2	0
20	1.1	17	.05	.63	5	.01	.57	2	0
21	1.0	20	.05	.57	7	.01	.63	2	0
22	1.0	24	.06	.57	8	.01	.57	2	0
23	.92	28	.07	.57	8	.01	.63	3	.01
24	.84	15	.03	.63	7	.01	.63	3	.01
25	.84	2	0	.57	7	.01	.57	3	0
26	.77	3	.01	.57	7	.01	.51	2	0
27	.70	3	.01	.70	7	.01	.45	3	0
28	.77	3	.01	.70	8	.02	.45	3	0
29	.84	3	.01	.63	8	.01	.40	3	0
30	1.0	3	.01	.63	6	.01	.45	4	0
31	.84	3	.01	.63	4	.01	--	--	--
TOTAL	34.72	--	1.30	21.57	--	.29	16.28	--	.11

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

7248.79  
87515.42

## SAN LORENZO RIVER BASIN

11160300 ZAYANTE CREEK AT ZAYANTE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.
					(T/DAY)	% FINER THAN .002 MM	% FINER THAN .004 MM	% FINER THAN .008 MM	% FINER THAN .016 MM	% FINER THAN .031 MM	% FINER THAN .062 MM
OCT.											
10...	1200	14.0	2.5	87	.59	--	--	--	--	--	--
15...	1000	14.0	10	1820	49	75	92	96	99	100	--
NOV.											
13...	1700	11.0	390	6610	6960	33	38	56	71	86	94
DEC.											
06...	0730	6.0	20	2510	136	--	--	--	--	--	62
JAN.											
09...	1030	9.0	122	1450	478	--	--	--	--	--	--
09...	1230	9.0	166	3010	1350	22	30	39	52	69	87
16...	0930	12.0	2180	31800	187000	18	21	27	36	46	59
16...	1200	12.0	1380	16600	62300	19	23	28	37	50	64
16...	1750	12.0	358	6170	5960	17	22	30	40	53	66
17...	1700	11.0	76	619	127	19	28	40	54	71	--
18...	0800	11.0	394	7240	7700	--	--	--	--	--	46
18...	1700	11.0	322	7570	6580	7	9	12	16	22	34
FEB.											
06...	1030	10.5	810	17000	37200	1	7	10	13	19	28
10...	1100	11.0	207	2200	1230	--	--	--	--	--	31
26...	1145	11.0	104	1640	461	17	23	27	37	44	62
27...	1200	12.0	330	6070	5410	8	10	14	18	24	32

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.										
10...	100	--	--	--	--	--	--	--	--	--
15...	--	--	--		--	--	--	--	--	--
NOV.										
13...	--	99	--	100	--	--	--	--	--	--
DEC.										
06...	--	67	--	80	--	92	--	100	--	--
JAN.										
09...	87	--	90	--	91	--	92	--	97	100
09...	--	96	--	99	--	100	--	--	--	--
16...	--	84	--	97	--	100	--	--	--	--
16...	--	85	--	98	--	100	--	--	--	--
16...	--	83	--	97	--	100	--	--	--	--
17...	81	--	93	--	99	--	100	--	--	--
18...	--	70	--	92	--	100	--	--	--	--
18...	--	58	--	85	--	98	--	100	--	--
FEB.										
06...	--	57	--	86	--	99	--	100	--	--
10...	--	48	--	78	--	98	--	100	--	--
26...	--	71	--	92	--	100	--	--	--	--
27...	--	41	--	62	--	97	--	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	BED MAT.	BED MAT.	BED MAT.				
					SIEVE DIAM. % FINER THAN .062 MM	SIEVE DIAM. % FINER THAN .125 MM	SIEVE DIAM. % FINER THAN .250 MM				
OCT.											
20...	1320	13.5	1	1.4	22	33	58				
20...	1325	13.5	1	1.4	1	2	5				
20...	1330	13.5	1	1.4	1	2	4				
20...	1335	13.5	1	1.4	1	1	6				
20...	1340	13.5	1	1.4	--	1	3				
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
OCT.											
20...	87	96	97	98	99	100	--	--	--	--	--
20...	19	56	76	84	92	100	--	--	--	--	--
20...	16	40	60	70	77	90	100	--	--	--	--
20...	25	44	58	69	82	100	--	--	--	--	--
20...	13	21	27	36	53	100	--	--	--	--	--

## SAN LORENZO RIVER BASIN

235

## 11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.

LOCATION.--Lat 37°02'40", long 122°04'17", in Zayante Grant, Santa Cruz County, at gaging station 20 ft upstream from bridge on Henry Cowell State Park Road, 200 ft upstream from Shingle Mill Creek, 0.3 mile downstream from Zayante Creek, 0.9 mile northwest of Big Trees station on Southern Pacific Railroad, and 5.3 miles northwest of Santa Cruz. Prior to Oct. 6, 1972, at site 1.3 miles downstream.

DRAINAGE AREA.--106 sq mi.

PERIOD OF RECORD.--Chemical analyses: January to December 1906, water years 1952-53 (partial-record station), October 1953 to September 1966, water years 1967, 1969-70, 1973 (partial-record station).

Water temperatures: May 1966 to September 1973.  
Sediment records: October 1972 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 23.0°C June 26; minimum, 2.5°C Dec. 11, 12, 14.  
Sediment concentrations: Maximum daily, 6,710 mg/l Jan. 16; minimum daily, 1 mg/l June 11, 15, 19.  
Sediment discharge: Maximum daily, 125,000 tons Jan. 16; minimum daily, 0.08 ton Sept. 7.

Period of record:

Water temperatures: Maximum (1966-67, 1968-70, 1971-73), 25.5°C July 14, 1972; minimum (1966-70, 1971-73), 1.5°C Dec. 15, 1967.

REMARKS.--No thermograph record Dec. 31 to Jan. 5, Mar. 14 to Apr. 2, July 15 to Sept. 23, recorder stopped; Sept. 24-30, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

		INSTAN- TANEOUS DIS- CHARGE	DIS- SOLVED CAL- CIUM (CA)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SULFATE (SO4)	DIS- SOLVED CHLO- RIDE (CL)	TOTAL NITRITE PLUS NITRATE (N)	DIS- SOLVED NITRITE PLUS NITRATE (N)	AMMONIA NITRO- GEN (N)	DIS- SOLVED AMMONIA NITRO- GEN (N)	ORGANIC NITRO- GEN (N)	DIS- SOLVED ORGANIC NITRO- GEN (N)	
DATE	TIME	(CFS)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	
MAY 03...	1200	90	--	--	--	--	--	--	--	--	--	--	
JULY 24...	1525	24	38	7.6	38	21	.13	.13	.06	.05	.12	.06	
		TOTAL KJEL- DAHL NITRO- GEN (N)	DIS- SOLVED KJEL- NITRO- GEN (N)	TOTAL NITRO- GEN (N)	TOTAL PHOS- PHORUS (P)	DIS- SOLVED ORTHO- PHOS- PHORUS (P)	HARD- NESS (CA+MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)
DATE		(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)		(UNITS)			(MG/L)	(MG/L)
MAY 03...	--	--	--	--	--	--	--	355	7.7	13.0	4	10.2	--
JULY 24...	.18	.11	.31	.21	.15	.130	130	334	7.8	20.5	--	10.7	1.0

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	MAX	OCT DAILY	MIN	MAX	NOV DAILY	MIN	MAX	DEC DAILY	MIN	MAX	JAN DAILY	MIN	MAX	FEB DAILY	MIN	MAX	MAR DAILY	MIN
1	15.5	--	13.5	12.0	--	9.5	8.0	--	6.5	--	--	--	9.5	--	8.5	11.5	--	10.0
2	16.0	--	13.5	13.0	--	10.5	8.0	--	7.0	--	--	--	9.5	--	8.5	11.0	--	9.5
3	17.0	--	13.0	13.5	--	12.0	9.5	--	8.0	--	--	--	9.5	--	8.5	10.5	--	9.5
4	15.5	--	14.0	14.0	--	13.0	10.0	--	8.5	--	--	--	10.5	--	9.5	10.5	--	9.5
5	17.5	--	14.0	13.0	--	11.5	8.5	--	6.5	--	--	--	10.5	--	9.5	10.5	--	9.5
6	17.5	--	13.5	12.5	--	10.0	8.0	--	7.0	5.5	--	4.0	10.5	--	10.5	11.0	--	10.0
7	17.0	--	13.5	12.5	--	11.0	7.5	--	6.0	5.0	--	3.0	11.5	--	10.5	11.0	--	9.5
8	17.0	--	15.0	12.0	--	10.5	7.0	--	5.0	7.0	--	5.0	11.5	--	10.5	11.0	--	10.0
9	16.5	--	15.5	11.5	--	10.0	5.0	--	4.0	9.5	--	7.0	11.0	--	10.5	11.5	--	10.0
10	17.0	--	15.0	12.0	--	11.0	5.0	--	3.5	9.5	--	9.0	11.0	--	10.5	11.5	--	10.5
11	16.0	--	15.0	12.0	--	10.5	4.5	--	2.5	10.0	--	9.5	11.0	--	10.5	11.5	--	10.0
12	15.5	--	15.0	11.0	--	9.5	4.0	--	2.5	11.0	--	10.0	11.0	--	10.5	11.0	--	9.5
13	15.0	--	14.0	11.5	--	10.5	5.0	--	3.5	10.5	--	10.0	11.0	--	10.0	11.0	--	9.5
14	15.0	--	14.0	11.5	--	11.5	4.5	--	2.5	10.0	--	9.0	11.0	--	10.5	--	--	--
15	15.0	--	14.0	12.0	--	11.5	4.5	--	3.5	10.5	--	10.0	10.5	--	9.5	--	--	--
16	14.0	--	13.5	12.0	--	11.5	6.5	--	4.5	11.0	--	10.5	10.5	--	9.0	--	--	--
17	14.5	--	13.5	11.5	--	10.5	8.0	--	6.5	10.5	--	10.0	10.5	--	9.0	--	--	--
18	15.0	--	13.0	11.0	--	10.0	9.5	--	8.0	11.0	--	10.5	10.5	--	9.0	--	--	--
19	14.0	--	13.5	10.5	--	9.5	10.5	--	9.5	10.5	--	9.0	10.0	--	8.5	--	--	--
20	15.5	--	13.5	10.5	--	9.5	11.5	--	10.5	10.0	--	8.0	11.0	--	9.0	--	--	--
21	15.5	--	13.5	10.5	--	9.0	11.5	--	10.5	11.0	--	10.0	11.0	--	9.5	--	--	--
22	15.5	--	13.5	11.0	--	10.0	11.5	--	10.0	10.5	--	9.0	11.0	--	9.5	--	--	--
23	16.5	--	14.0	10.5	--	8.5	10.5	--	9.5	9.0	--	7.5	11.5	--	10.0	--	--	--
24	15.5	--	13.5	10.0	--	9.0	10.5	--	9.0	9.5	--	8.0	12.0	--	11.0	--	--	--
25	14.0	--	11.0	10.0	--	8.0	10.0	--	8.5	10.5	--	9.5	12.5	--	11.5	--	--	--
26	13.0	--	10.5	10.0	--	8.0	9.0	--	7.0	9.5	--	8.0	12.0	--	11.5	--	--	--
27	14.0	--	11.5	10.5	--	9.0	9.0	--	8.0	8.5	--	7.0	12.0	--	11.0	--	--	--
28	13.0	--	11.0	9.5	--	8.0	8.5	--	7.0	8.5	--	6.5	11.5	--	11.0	--	--	--
29	12.0	--	9.5	9.5	--	7.5	7.5	--	6.0	10.0	--	8.0	--	--	--	--	--	--
30	11.5	--	8.5	9.0	--	7.0	7.0	--	5.0	10.0	--	9.5	--	--	--	--	--	--
31	10.5	--	7.5	--	--	--	--	--	--	10.5	--	9.5	--	--	--	--	--	--
MONTH	17.5	--	7.5	14.0	--	7.0	11.5	--	2.5	11.0	--	3.0	12.5	--	8.5	--	--	--

## SAN LORENZO RIVER BASIN

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	MAX	APP DAILY	MIN	MAX	MAY DAILY	MIN	MAX	JUN DAILY	MIN	MAX	JUL DAILY	MIN	MAX	AUG DAILY	MIN	MAX	SFP DAILY	MIN
1	--	--	--	15.0	--	11.5	17.5	--	14.0	20.0	--	15.0	--	15.5	--	--	--	--
2	--	--	--	15.0	--	10.5	18.5	--	14.0	20.5	--	15.0	--	--	--	--	--	--
3	11.5	--	8.5	15.5	--	11.5	18.0	--	14.5	20.5	--	14.5	--	--	--	--	--	--
4	12.5	--	9.5	14.5	--	12.0	18.5	--	14.5	22.0	--	15.0	--	--	--	--	--	--
5	13.0	--	10.0	15.0	--	11.0	19.5	--	15.0	22.0	--	16.5	--	--	--	--	--	--
6	13.5	--	11.0	15.5	--	12.0	20.5	--	15.5	21.5	--	15.5	--	--	--	--	--	--
7	13.5	--	11.0	15.5	--	12.0	21.5	--	16.0	20.5	--	15.0	--	--	--	--	--	--
8	13.0	--	10.5	15.5	--	11.5	22.0	--	16.5	21.0	--	14.5	--	--	--	--	--	--
9	12.0	--	10.5	16.0	--	11.5	21.5	--	17.5	21.5	--	15.0	--	--	--	--	--	--
10	14.0	--	11.0	16.5	--	12.0	20.0	--	16.5	21.5	--	15.5	--	--	--	--	--	--
11	14.0	--	11.5	17.0	--	13.0	18.0	--	15.0	20.5	--	16.0	--	--	--	--	--	--
12	14.0	--	12.5	16.5	--	13.5	20.0	--	14.5	20.0	--	15.5	--	--	--	--	18.0	--
13	13.5	--	13.0	16.0	--	13.5	17.0	--	14.5	19.5	--	15.5	--	--	--	--	--	--
14	13.5	--	12.5	14.5	--	13.5	16.5	--	13.5	17.0	--	15.5	--	--	--	--	--	--
15	13.0	--	11.0	15.5	--	13.0	18.0	--	13.0	--	--	--	--	--	--	--	--	--
16	13.5	--	10.5	17.0	--	13.0	19.0	--	14.0	--	--	--	--	--	--	--	--	--
17	14.0	--	11.5	19.0	--	14.0	18.0	--	14.0	--	--	--	--	--	--	--	--	--
18	13.0	--	10.5	18.0	--	13.5	19.5	--	14.5	--	--	--	--	--	--	--	--	--
19	13.5	--	10.5	18.0	--	15.0	20.5	--	14.5	--	--	--	--	--	--	--	--	--
20	13.0	--	10.5	17.0	--	13.5	21.5	--	15.5	--	--	--	--	--	--	--	--	--
21	13.5	--	10.0	16.0	--	13.5	21.5	--	16.5	--	--	--	--	--	--	--	--	--
22	14.0	--	10.5	17.5	--	13.5	20.0	--	16.5	--	--	--	--	--	--	--	--	--
23	14.5	--	11.5	18.0	--	14.0	19.0	--	15.5	--	--	--	--	--	--	--	--	--
24	15.0	--	11.0	16.5	--	14.5	20.5	--	15.5	--	--	--	--	--	--	--	--	--
25	15.0	--	11.5	18.0	--	14.5	22.0	--	16.0	--	--	--	--	--	--	--	--	--
26	15.5	--	12.0	17.0	--	12.5	23.0	--	17.0	--	--	--	--	--	--	--	--	--
27	15.5	--	12.5	17.0	--	13.0	19.0	--	17.0	--	--	--	--	--	--	--	--	--
28	15.5	--	12.5	19.5	--	14.5	21.5	--	16.0	--	--	--	--	--	--	--	--	--
29	14.0	--	12.0	19.5	--	16.0	21.0	--	16.5	--	--	--	--	--	--	--	--	--
30	15.0	--	11.5	17.0	--	15.5	21.0	--	16.0	--	--	--	--	--	--	--	--	--
31	--	--	--	15.5	--	14.0	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	15.5	--	8.5	19.5	--	10.5	23.0	--	13.0	--	--	--	--	--	--	--	--	--

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	12	3	.10	15	4	.16	35	4	.38
2	11	3	.09	17	4	.18	33	4	.36
3	11	3	.09	17	5	.30	41	22	3.6
4	12	3	.10	68	32	6.4	52	44	6.5
5	12	4	.13	33	6	.53	41	30	3.3
6	13	4	.14	25	4	.27	139	173	74
7	13	4	.14	33	7	.62	94	106	27
8	14	4	.15	31	5	.42	83	65	15
9	16	5	.22	24	5	.32	65	48	8.4
10	27	8	.58	91	27	8.3	57	60	9.2
11	58	21	4.7	230	77	54	53	50	7.2
12	40	10	1.3	74	23	4.6	50	35	4.7
13	24	4	.26	1110	1330	9430	48	32	4.1
14	36	8	1.1	1430	987	4610	46	37	4.6
15	103	78	24	1440	1270	9280	44	40	4.8
16	90	59	20	848	532	1640	43	40	4.6
17	180	109	64	299	100	81	53	52	7.6
18	70	63	14	186	45	23	49	52	6.9
19	34	35	3.2	137	25	9.2	70	74	14
20	28	25	1.9	107	18	5.2	55	60	8.9
21	24	20	1.3	86	12	2.8	50	55	7.4
22	22	15	.89	75	10	2.0	62	66	11
23	21	10	.57	66	10	1.8	54	60	8.7
24	20	6	.32	58	10	1.6	52	45	6.3
25	17	4	.18	52	8	1.1	49	40	5.3
26	16	4	.17	48	8	1.0	46	33	4.1
27	16	4	.17	45	6	.73	44	26	3.1
28	16	4	.17	41	6	.66	44	20	2.4
29	16	4	.17	39	5	.53	41	20	2.2
30	15	4	.16	37	5	.50	39	27	2.8
31	15	4	.16	--	--	--	39	25	2.6
TOTAL	1002	--	140.46	6762	--	25167.22	1671	--	271.04

## SAN LORENZO RIVER BASIN

237

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JANUARY			FEBRUARY			MARCH		
	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	38	20	2.1	280	400	302	1090	950	2800
2	38	20	2.1	250	200	135	794	350	750
3	37	22	2.2	620	1070	2890	786	460	1040
4	38	22	2.3	815	1230	2830	730	400	788
5	37	22	2.2	551	480	714	614	300	497
6	36	22	2.1	2980	4650	50200	832	1240	3260
7	36	22	2.1	1680	2010	10400	656	445	799
8	206	455	555	833	1000	2250	639	295	528
9	1130	2880	10200	984	1390	4990	532	100	144
10	575	583	1090	2860	3570	29800	485	150	196
11	404	946	1300	2440	2040	15000	481	170	221
12	461	472	662	1450	1170	4850	414	100	112
13	315	100	85	1910	1740	9270	368	250	248
14	247	55	37	1530	1580	6860	337	50	45
15	220	40	24	1110	1000	3000	312	50	42
16	4590	6710	125000	841	680	1540	292	70	55
17	1350	2340	9470	677	650	1190	278	95	71
18	3350	4280	40600	573	390	603	260	100	70
19	1130	2300	7020	496	210	281	407	463	844
20	680	1800	3300	434	180	211	454	350	429
21	530	1000	1430	388	150	157	450	250	305
22	410	600	664	351	120	114	398	100	107
23	330	450	401	326	80	70	337	54	49
24	310	700	586	486	432	614	305	44	36
25	310	400	335	340	290	272	287	34	26
26	300	300	243	1070	888	3770	275	35	26
27	280	250	189	2750	2220	23300	261	35	25
28	260	200	140	2740	1920	15500	244	32	21
29	340	1100	1010	--	--	--	228	28	17
30	540	1600	2330	--	--	--	224	24	15
31	350	1200	1130	--	--	--	223	16	9.6
TOTAL	18878	--	207816.1	31773	--	191113	13993	--	13575.6

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	202	13	7.1	78	8	1.7	49	2	.26
2	187	10	5.0	77	4	.83	49	2	.26
3	170	10	4.6	76	2	.41	48	2	.26
4	163	9	4.0	74	2	.40	48	4	.52
5	156	8	3.4	74	3	.60	46	5	.62
6	149	8	3.2	74	4	.80	44	5	.59
7	143	7	2.7	72	4	.78	42	4	.45
8	133	5	1.8	69	3	.56	40	4	.43
9	132	8	2.9	70	4	.76	37	3	.30
10	128	11	3.8	67	4	.72	37	2	.20
11	122	8	2.6	66	4	.71	35	1	.09
12	119	4	1.3	65	3	.53	39	3	.32
13	119	5	1.6	64	4	.69	39	4	.42
14	116	6	1.9	64	5	.86	39	3	.32
15	113	8	2.4	64	8	1.4	39	1	.11
16	109	10	2.9	63	10	1.7	37	2	.20
17	107	8	2.3	60	8	1.3	37	2	.20
18	103	5	1.4	58	5	.78	36	2	.19
19	101	5	1.4	57	5	.77	35	1	.09
20	99	5	1.3	55	4	.59	33	3	.27
21	95	7	1.8	57	4	.62	32	6	.52
22	91	8	2.0	57	3	.46	30	10	.81
23	91	5	1.2	56	3	.45	28	11	.83
24	90	5	1.2	54	2	.29	34	10	.92
25	87	6	1.4	54	2	.29	28	9	.68
26	85	9	2.1	53	3	.43	28	8	.60
27	83	10	2.2	50	4	.54	29	7	.55
28	82	11	2.4	49	4	.53	29	6	.47
29	80	9	1.9	49	4	.53	29	5	.39
30	79	7	1.5	48	4	.52	29	5	.39
31	--	--	--	49	3	.40	--	--	--
TOTAL	3534	--	75.3	1923	--	21.95	1105	--	12.26

## SAN LORENZO RIVER BASIN

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JULY			AUGUST			SEPTEMBER		
	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	29	5	.39	21	5	.28	16	4	.17
2	29	5	.39	19	4	.21	17	3	.14
3	28	4	.30	20	2	.11	17	3	.14
4	27	4	.29	21	2	.11	17	3	.14
5	27	3	.22	21	3	.17	17	2	.09
6	25	3	.20	22	3	.18	17	2	.09
7	25	3	.20	21	3	.17	15	2	.08
8	26	3	.21	20	3	.16	16	2	.09
9	26	3	.21	20	3	.16	16	2	.09
10	25	3	.20	20	3	.16	16	2	.09
11	25	3	.20	20	3	.16	16	2	.09
12	24	5	.32	20	2	.11	16	2	.09
13	25	6	.41	20	2	.11	16	3	.13
14	26	5	.35	19	3	.15	15	3	.12
15	27	3	.22	18	3	.15	16	3	.13
16	27	2	.15	18	4	.19	16	4	.17
17	26	3	.21	16	5	.22	19	5	.26
18	27	3	.22	17	5	.23	15	4	.16
19	26	3	.21	17	6	.28	15	3	.12
20	25	2	.14	17	6	.28	17	3	.14
21	25	2	.14	16	5	.22	16	2	.09
22	26	3	.21	16	3	.13	17	2	.09
23	24	3	.19	16	3	.13	21	3	.17
24	23	3	.19	17	3	.14	20	4	.22
25	23	3	.19	17	3	.14	24	4	.26
26	22	3	.18	18	3	.15	17	3	.14
27	21	3	.17	18	3	.15	15	4	.16
28	21	4	.23	18	5	.24	16	4	.17
29	23	6	.37	17	6	.28	15	4	.16
30	23	8	.50	17	5	.23	21	3	.17
31	23	6	.37	16	4	.17	--	--	--
TOTAL	779	--	7.78	573	--	5.57	507	--	4.16
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									82500
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)									438210.44

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	RED-LOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1972	1002.00	140.46	46	186
NOVEMBER ...	6762.00	25167.22	1220	26400
DECEMBER ...	1671.00	271.04	21	292
JANUARY 1973	18878.00	207816.10	3590	211000
FEBRUARY ...	31773.00	191113.00	5950	197000
MARCH .....	13993.00	13575.60	3620	17200
APRIL .....	3534.00	75.30	380	455
MAY .....	1923.00	21.95	0	22
JUNE .....	1105.00	12.26	0	12
JULY .....	779.00	7.78	0	8
AUGUST .....	573.00	5.57	0	6
SEPTEMBER ..	507.00	4.16	0	4
TOTAL .....	82500.00	438210.44	14827	452585



## SAN LORENZO RIVER BASIN

239

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDEI SEN- MFNT (MG/L)	SUS- PENDEI MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
16...	1410	12.0	617	350	583	17	24	31	38	46
DEC.										
07...	1110	6.0	103	178	50	--	--	--	--	--
07...	1305	7.0	105	112	32	--	--	--	--	--
JAN.										
08...	1600	6.0	222	960	575	--	--	--	--	--
09...	1300	9.5	1510	4360	17800	--	--	--	--	--
16...	0800	11.5	7780	7280	143000	24	30	40	55	75
16...	1300	12.0	9030	11300	276000	21	23	31	42	58
16...	2000	11.5	2890	5740	44600	--	--	--	--	--
17...	0700	10.0	1560	2780	11700	6	11	13	17	21
18...	1440	10.5	3850	3560	37000	12	16	22	29	38
FEB.										
11...	1200	10.5	2300	1750	10900	7	10	13	16	21

DATE	SUS. SFD. FALL DIAM. % FINER THAN .062 MM	SUS. SFD. FALL DIAM. % FINER THAN .062 MM	SUS. SFD. FALL DIAM. % FINER THAN .125 MM	SUS. SFD. FALL DIAM. % FINER THAN .125 MM	SUS. SFD. FALL DIAM. % FINER THAN .250 MM	SUS. SFD. FALL DIAM. % FINER THAN .250 MM	SUS. SFD. FALL DIAM. % FINER THAN .500 MM	SUS. SFD. FALL DIAM. % FINER THAN .500 MM	SUS. SFD. FALL DIAM. % FINER THAN 1.00 MM	SUS. SFD. FALL DIAM. % FINER THAN 1.00 MM
NOV.										
16...	55	--	65	--	78	--	97	--	100	--
DEC.										
07...	--	98	--	99	--	100	--	--	--	--
07...	--	97	--	98	--	100	--	--	--	--
JAN.										
08...	--	95	--	100	--	--	--	--	--	--
09...	27	--	34	--	49	--	99	--	100	--
16...	97	--	99	--	100	--	--	--	--	--
16...	74	--	95	--	99	--	100	--	--	--
16...	57	--	84	--	97	--	100	--	--	--
17...	27	--	39	--	68	--	96	--	100	--
18...	48	--	67	--	87	--	97	--	100	--
FEB.										
11...	--	23	--	26	--	44	--	88	--	100

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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
DEC.							
07...	1420	7.0	1	105	--	1	3
07...	1425	7.0	1	105	--	1	2
07...	1430	7.0	1	105	1	2	10
07...	1435	7.0	1	105	--	1	2
07...	1440	7.0	1	105	1	2	11

## SAN LORENZO RIVER BASIN

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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
DEC. 07...	9	17	33	59	82	100
07...	18	39	49	60	72	100
07...	61	91	97	99	100	--
07...	16	48	76	87	94	100
07...	48	86	95	97	99	100

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
NOV. 02...	1030	11.5	--	16	--	.00		
DEC. 07...	1330	7.0	24	102	49	6.9	--	--
JAN. 08...	1515	6.0	22	93	46	.60	1	2
18...	1345	10.5	5	3990	97	446	--	2
FEB. 02...	1430	9.0	21	253	63	64	--	--
15...	1320	10.0	5	1190	75	252	--	--
APR. 02...	1440	11.5	18	181	55	50	--	--
MAY 01...	1120	12.0	--	77	--	.00		
JUNE 20...	1125	17.0	--	35	35	.00		
AUG. 01...	1040	16.5	--	23	25	.00		
SEPT. 05...	1520	16.5	--	17	21	.00		

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
DEC. 07...	1330	7.0	24	102	49	6.9	--	--
JAN. 08...	1515	6.0	22	93	46	.60	1	2
18...	1345	10.5	5	3990	97	446	--	2
FEB. 02...	1430	9.0	21	253	63	64	--	--
15...	1320	10.0	5	1190	75	252	--	--
APR. 02...	1440	11.5	18	181	55	50	--	--

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
DEC. 07...	4	36	82	96	98	99	100	--
JAN. 08...	10	41	74	92	98	100	--	--
18...	10	28	34	43	53	65	82	100
FEB. 02...	2	21	57	80	93	98	99	100
15...	2	19	56	86	91	94	99	100
APR. 02...	1	21	70	92	98	99	100	--

## PESCADERO CREEK BASIN

241

11162500 PESCADERO CREEK NEAR PESCADERO, CALIF.

LOCATION.--Lat 37°15'39", long 122°19'40", in SW¼ sec.5, T.8 S., R.4 W., San Mateo County, at gaging station at highway bridge, 3.0 miles east of Pescadero, and 5.3 miles upstream from mouth.

DRAINAGE AREA.--45.9 sq mi.

PERIOD OF RECORD.--Water temperatures: April 1965 to September 1973.

Sediment records: Water years 1971, 1973 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 22.5°C June 27; minimum, 3.0°C Dec. 12, 14.

Period of record:

Water temperatures: Maximum, 22.5°C June 27, 1973; minimum (1965-66, 1967-73), 2.0°C Dec. 19, 1965.

REMARKS.--No thermograph record June 18-25, recorder stopped.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	14.0	11.0	9.5	8.0	7.0	5.5	5.0	11.0	8.0	8.5	7.5
2	16.0	14.0	12.5	11.0	8.0	7.0	6.0	5.0	9.5	8.5	10.0	8.5
3	16.5	13.5	12.5	12.0	9.5	8.0	6.5	6.0	9.5	9.0	10.5	10.0
4	15.5	14.5	13.5	13.0	9.5	8.5	6.0	5.0	9.5	9.0	10.5	9.0
5	17.5	14.0	13.0	12.0	8.5	7.0	5.0	4.5	9.5	9.0	10.5	9.5
6	17.5	14.0	12.0	10.5	8.0	7.5	5.0	4.5	9.5	8.5	10.5	9.5
7	16.5	14.0	11.5	11.0	8.0	7.5	4.5	3.5	9.5	9.0	10.5	10.0
8	16.5	16.0	11.5	10.5	7.5	6.0	6.5	4.5	10.0	9.0	10.5	10.0
9	16.5	15.5	10.5	9.5	6.0	4.5	9.5	6.5	10.0	9.5	10.5	10.5
10	15.5	15.0	11.5	10.5	4.5	4.0	10.0	9.5	9.5	9.0	11.0	10.5
11	15.5	15.0	11.5	11.5	4.0	3.5	10.5	10.0	9.5	9.0	11.0	10.5
12	15.0	14.5	11.5	11.0	4.0	3.0	11.0	10.5	9.0	8.5	11.0	9.5
13	15.0	14.5	12.0	11.5	4.0	3.5	11.0	10.0	9.5	8.5	11.0	10.0
14	15.0	14.5	12.5	12.0	3.5	3.0	10.5	9.5	9.0	8.5	11.0	9.5
15	15.0	14.5	12.5	12.0	4.5	3.5	11.0	10.0	9.0	7.0	10.5	9.0
16	14.5	14.0	12.5	11.5	5.5	4.5	11.0	11.0	9.0	7.0	10.5	10.0
17	14.5	13.5	12.0	11.0	7.5	6.0	11.0	10.5	8.5	7.0	10.5	10.0
18	14.5	13.5	11.5	11.0	9.0	7.0	11.0	11.0	8.5	6.5	10.5	9.5
19	14.5	14.0	11.5	11.0	10.5	9.0	11.0	10.0	7.5	5.5	10.5	10.5
20	14.5	14.0	11.0	10.0	11.0	10.5	10.5	9.5	8.0	6.5	10.5	9.5
21	14.5	14.0	10.5	10.0	10.5	10.5	12.0	10.5	8.0	7.0	10.5	10.0
22	14.5	14.0	10.5	10.0	11.0	10.5	12.0	11.0	8.5	7.5	11.0	10.0
23	15.0	14.0	10.0	9.0	11.0	10.0	12.0	11.0	8.0	7.0	11.5	10.0
24	14.5	13.5	10.0	9.5	10.0	9.5	12.0	11.0	9.0	8.0	11.5	10.5
25	13.5	12.0	10.0	9.0	9.5	8.5	11.5	11.5	9.0	8.5	11.5	11.0
26	13.0	12.0	9.0	9.0	8.5	8.0	11.5	9.5	9.0	8.5	11.5	11.5
27	13.0	11.5	9.0	8.5	8.0	7.5	10.0	8.0	9.0	8.5	11.5	11.0
28	13.0	12.0	9.0	8.0	8.0	7.5	9.0	7.5	8.5	8.0	11.5	10.5
29	12.0	10.0	8.5	8.0	7.5	6.5	10.0	9.0	---	---	11.5	10.5
30	10.5	9.0	8.5	8.0	6.5	5.5	10.5	10.0	---	---	11.0	11.0
31	10.0	8.5	---	---	6.0	5.5	11.0	10.0	---	---	11.0	10.5
MONTH	17.5	8.5	13.5	8.0	11.0	3.0	12.0	3.5	11.0	5.5	11.5	7.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.5	15.0	13.5	18.0	17.0	21.5	20.0	19.5	18.0	17.5	14.0
2	11.0	10.0	15.0	13.5	18.0	17.0	21.5	20.0	19.5	18.0	17.0	13.5
3	11.0	10.0	15.0	13.5	18.5	18.0	21.5	20.0	19.0	18.0	16.0	14.0
4	11.0	9.5	14.5	14.0	19.0	18.0	20.5	19.0	19.0	18.0	16.5	14.5
5	11.0	10.0	14.0	13.0	19.5	18.5	20.5	19.5	19.0	18.0	15.5	15.0
6	11.5	10.5	13.5	12.5	20.0	18.5	20.5	19.5	19.0	18.0	17.0	13.5
7	11.5	10.0	13.0	12.0	20.0	18.5	21.0	20.0	19.0	18.0	17.0	13.5
8	11.5	10.0	12.5	11.0	21.0	19.5	21.0	19.5	18.5	17.5	17.0	13.0
9	11.5	10.5	12.0	11.0	21.0	20.0	20.5	19.0	18.5	17.0	17.0	13.5
10	11.5	10.0	12.0	11.0	21.0	20.0	20.5	19.0	18.5	17.5	17.5	15.5
11	11.5	10.0	12.5	11.5	21.5	20.5	21.0	19.5	18.5	17.5	18.0	15.0
12	12.5	11.5	13.0	12.0	20.5	19.5	20.0	18.5	18.5	17.5	17.5	15.0
13	12.5	12.0	13.0	12.0	21.0	20.5	20.0	18.0	18.0	16.5	17.0	15.0
14	12.5	12.0	13.5	12.5	20.5	20.0	20.0	18.5	18.5	16.5	17.0	15.5
15	12.5	11.5	14.0	12.5	20.0	19.5	19.5	19.0	18.5	16.5	16.5	15.5
16	12.5	12.0	14.0	13.0	20.5	19.5	19.5	19.0	18.0	16.0	17.0	14.5
17	12.5	11.5	14.5	13.5	20.5	19.5	19.5	19.0	17.5	16.0	17.0	15.0
18	12.5	11.5	15.0	14.0	---	---	19.5	18.5	17.5	16.0	17.5	14.5
19	12.5	11.0	15.5	14.5	---	---	19.0	18.5	17.5	15.5	18.0	16.0
20	13.5	12.0	15.0	14.5	---	---	19.0	18.5	17.0	15.5	18.5	17.0
21	13.0	11.5	15.0	14.0	---	---	18.5	17.0	16.5	15.0	18.0	16.0
22	13.0	11.5	15.5	14.5	---	---	18.5	17.5	16.5	15.5	17.0	15.5
23	13.5	12.0	15.0	14.5	---	---	18.5	17.5	17.0	15.5	17.5	16.0
24	14.0	12.0	16.0	15.0	---	---	18.5	17.0	18.0	15.5	17.0	15.5
25	14.0	12.5	16.0	15.0	---	---	18.5	17.0	17.0	15.5	17.5	15.0
26	14.0	12.5	16.5	15.5	22.0	21.0	19.0	17.0	18.0	15.0	17.0	14.0
27	14.0	13.0	16.5	15.5	22.5	21.5	19.0	17.5	17.0	15.0	17.0	14.0
28	15.0	14.5	17.0	15.5	22.0	21.0	19.5	18.0	17.5	13.5	18.0	14.0
29	14.5	13.5	18.0	16.5	22.0	21.0	19.0	18.0	18.0	14.5	16.5	14.0
30	14.5	13.5	18.0	17.0	22.0	20.5	19.0	18.0	18.0	15.0	16.0	14.5
31	---	---	18.0	17.0	---	---	19.5	18.0	17.0	16.0	---	---
MONTH	15.0	9.5	18.0	11.0	---	---	21.5	17.0	19.5	13.5	18.5	13.0

## PESCADERO CREEK BASIN

11162500 PESCADERO CREEK NEAR PESCADERO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
DEC. 06...	1200	7.5	32	75	6.5	--	--	--	--
JAN. 16...	1115	11.0	5380	10000	145000	34	35	43	54
18...	1100	11.0	2570	4840	33600	19	21	28	35

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
DEC. 06...	--	--	87	--	90	--	100	--	--
JAN. 16...	66	75	--	92	--	98	--	100	--
18...	46	56	--	80	--	93	--	99	100

LOCATION.--Lat 37°39'14", long 122°25'31", in Buri Buri Grant, San Mateo County, at gaging station in Orange Memorial Park, 1.0 mile southwest of South San Francisco Post Office.

PERIOD OF RECORD.--Water temperatures: October 1969 to September 1973.

Sediment records: October 1965 to September 1973 (seasonal record only for water years 1972-73).

Sediment concentrations: Maximum daily, 4,810 mg/l Jan. 16; minimum daily, 6 mg/l Oct. 8.  
Sediment discharge: Maximum daily, 12,900 tons Oct. 11; minimum daily, 0.01 ton Oct. 4, 8.

Sediment concentrations: Maximum daily, 19,800 mg/l Jan. 21, 1967; minimum daily, 2 mg/l Dec. 3, 1968.

Sediment discharge: Maximum daily, 26,900 tons Jan. 21, 1967; minimum daily, 0 tons Nov. 11-13, 1967, May 29, June 2, 1969.

[illegible]

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.75	10	.02	2.1	10	.06	1.7	18	.08
2	1.6	9	.04	1.6	10	.04	1.8	15	.07
3	.97	8	.02	62	963	634	12	328	88
4	.62	7	.01	53	982	694	12	395	20
5	.60	20	.03	3.2	80	.69	3.1	100	.84
6	1.2	10	.03	2.3	72	.45	22	322	37
7	.93	8	.02	20	488	180	34	388	104
8	.81	6	.01	2.2	50	.30	3.3	80	.71
9	73	1050	763	17	190	36	2.2	70	.42
10	4.8	100	1.3	81	1750	1170	2.1	60	.34
11	268	3850	12900	15	441	38	1.8	60	.29
12	34	374	107	3.4	100	.92	3.3	66	.72
13	18	239	54	186	2170	2090	2.1	110	.62
14	98	2550	1560	89	1100	862	6.0	138	3.5
15	42	1890	333	87	1320	692	1.9	90	.46
16	19	1680	163	21	297	25	5.7	89	3.4
17	4.1	660	7.3	8.7	80	1.9	162	1920	1520
18	2.7	630	4.6	8.9	138	5.0	40	700	309
19	2.7	640	4.7	4.7	90	1.1	29	539	63
20	2.6	654	4.6	3.6	80	.78	8.8	230	5.5
21	2.3	500	3.1	3.0	70	.57	7.3	120	2.4
22	2.1	350	2.0	2.5	66	.45	15	235	25
23	2.2	190	1.1	2.0	30	.16	9.8	166	28
24	2.2	37	.22	1.7	12	.06	4.3	300	3.5
25	1.7	30	.14	1.8	20	.10	3.1	100	.84
26	1.6	25	.11	1.6	25	.11	3.0	90	.73
27	1.6	23	.10	1.6	30	.13	8.1	146	7.1
28	1.6	20	.09	1.6	35	.15	2.3	140	.87
29	1.7	18	.08	1.8	30	.15	2.1	200	1.1
30	2.4	15	.10	1.8	25	.12	2.1	100	.57
31	2.1	12	.07	--	--	--	2.1	70	.40
TOTAL	597.88	--	15909.79	691.1	--	6434.24	414.0	--	2228.46

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	2.1	60	.34	1.6	130	.56	8.1	150	3.3
2	2.3	40	.25	2.7	60	.44	6.0	100	1.6
3	2.9	70	.55	60	942	497	57	676	200
4	2.1	50	.28	42	1150	630	14	272	17
5	2.1	40	.23	23	336	65	6.7	100	1.8
6	2.1	30	.17	200	2630	2360	50	829	506
7	2.2	30	.18	59	517	91	31	477	137
8	103	1090	884	20	267	14	14	364	19
9	129	1530	1120	119	1520	2070	7.2	160	3.1
10	28	184	15	59	630	134	23	422	79
11	105	954	561	43	582	83	10	508	18
12	29	639	54	73	2550	1030	5.2	300	4.2
13	12	340	11	9.9	1280	51	4.2	200	2.3
14	7.9	250	5.3	72	1160	600	3.8	150	1.5
15	8.5	216	5.6	18	150	7.3	3.5	100	.95
16	324	4810	9530	11	80	2.4	3.3	80	.71
17	116	2550	1860	7.7	70	1.5	3.5	100	.95
18	300	4740	7560	5.1	60	.83	2.8	60	.45
19	27	2000	146	8.1	50	1.1	67	892	460
20	15	900	36	12	40	1.3	7.9	275	7.4
21	21	571	54	12	34	1.1	24	446	55
22	3.4	500	4.6	15	100	4.1	3.2	300	2.6
23	2.7	560	4.1	19	101	6.6	2.7	240	1.7
24	10	445	18	24	283	45	2.7	200	1.5
25	6.7	347	12	4.2	100	1.1	2.1	150	.85
26	1.6	210	.91	60	913	381	2.1	100	.57
27	1.2	150	.49	136	2050	1780	3.2	62	.54
28	1.2	100	.32	21	398	43	4.5	60	.73
29	51	1200	349	--	--	--	2.1	60	.34
30	8.2	300	6.6	--	--	--	45	471	92
31	1.6	200	.86	--	--	--	2.2	250	1.5
TOTAL	1328.8	--	22240.78	1137.3	--	9902.33	422.0	--	1621.59

TOTAL DISCHARGE FOR PERIOD OCT. 1, 1972, TO MAR. 31, 1973 (CFS-DAYS)

4591.08

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD OCT. 1, 1972, TO MAR. 31, 1973 (TONS)

58337.19

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
OCT. 16...	1330	16.0	27	797	58	27	35	44	56	68
NOV. 07...	1240	14.5	455	6730	8270	9	12	16	22	30
07...	1310	14.5	109	1330	391	--	--	--	--	--
13...	1450	13.0	323	2420	2110	14	18	22	27	33
JAN. 16...	1120	13.0	135	2650	966	18	24	28	33	39
FEB. 06...	1925	12.0	48	1300	168	23	30	34	38	46
12...	1520	11.0	318	12200	10500	10	11	11	18	27
26...	1210	14.0	388	5150	5400	9	11	14	17	22
27...	1520	14.5	152	1580	648	17	21	25	29	34
MAR. 21...	1000	11.0	48	392	51	36	44	53	62	70
21...	1100	--	67	740	134	32	40	49	57	65

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT. 16...	78	--	85	--	100	--	--	--	--
NOV. 07...	44	--	74	--	96	--	100	--	--
07...	71	--	87	--	99	--	100	--	--
13...	44	--	67	--	96	--	100	--	--
JAN. 16...	46	--	57	--	89	--	99	--	100
FEB. 06...	58	--	80	--	98	--	100	--	--
12...	45	--	81	--	94	--	99	--	100
26...	30	--	45	--	90	--	100	--	--
27...	41	--	67	--	98	--	100	--	--
MAR. 21...	--	75	--	89	--	99	--	100	--
21...	70	--	83	--	99	--	100	--	--

## GUADALUPE RIVER BASIN

11167700 ROSS CREEK BELOW JARVIS ROAD, AT SAN JOSE, CALIF.

LOCATION.--Lat 37°15'48", long 121°53'08", in San Juan Bautista Grant, Santa Clara County, at gaging station at south city limits of San Jose, 100 ft upstream from Cherry Avenue, 1,400 ft downstream from Jarvis Road bridge, and 0.5 mile upstream from mouth.

DRAINAGE AREA.--7.64 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1972-73 (partial-record station).  
Sediment records: Water year 1973 (partial-record station).

## CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
SEP., 1972										
27...	0440	20	--	--	--	--	--	--	78	--
27...	0510	108	--	--	--	--	--	--	97	--
27...	0640	41	--	--	--	--	--	--	46	--
OCT.										
09...	1610	8.8	--	--	--	--	--	--	93	--
09...	1750	104	3.1	300	9.3	2.9	5.6	3.0	39	0
14...	0735	54	2.3	40	7.2	2.0	3.3	1.4	21	0
14...	0930	12	--	--	--	--	--	--	33	--
NOV.										
13...	1235	146	--	--	--	--	--	--	44	--
13...	1415	201	--	--	--	--	--	--	23	--
13...	1910	165	--	--	--	--	--	--	32	--
DEC.										
06...	0810	12	--	--	--	--	--	--	50	--
06...	1410	4.8	--	--	--	--	--	--	98	--
07...	0815	3.7	--	--	--	--	--	--	122	--
JAN., 1973										
08...	1040	12	--	--	--	--	--	--	56	--
08...	1650	104	--	--	--	--	--	--	46	--
08...	1720	199	--	--	--	--	--	--	29	--
08...	2015	24	--	--	--	--	--	--	36	--
17...	2110	26	--	--	--	--	--	--	151	--
17...	2255	230	--	--	--	--	--	--	41	--
18...	0825	530	--	--	--	--	--	--	41	--
18...	1545	72	--	--	--	--	--	--	79	--
FEB.										
05...	2030	52	--	--	--	--	--	--	--	--
06...	0745	210	--	--	--	--	--	--	--	--
06...	1615	153	--	--	--	--	--	--	--	--
MAR.										
19...	1615	16	--	--	--	--	--	--	119	--
19...	1655	126	4.2	50	7.7	3.2	7.0	1.6	31	0
19...	1940	120	3.5	0	9.6	3.9	3.6	2.2	36	0

DATE	ALKA- LINITY AS CaCO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
SEP., 1972											
27...	64	--	--	--	--	4.3	--	3.0	--	--	--
27...	80	--	--	--	--	3.9	--	2.3	7.2	--	9.5
27...	38	--	--	--	--	3.1	--	1.6	2.7	--	4.3
OCT.											
09...	76	--	--	--	--	3.2	--	1.3	2.0	1.3	3.3
09...	32	8.0	7.5	.3	--	1.2	--	.36	2.9	--	3.3
14...	17	7.0	3.2	.3	--	.36	--	.19	1.0	--	1.2
14...	27	--	--	--	--	.59	--	.19	1.1	.76	1.3
NOV.											
13...	36	--	--	--	--	.35	--	.18	1.3	.34	1.5
13...	19	--	--	--	--	.19	--	.21	1.3	.27	1.5
13...	26	--	--	--	--	.71	--	.19	1.5	.45	1.7
DEC.											
06...	41	--	--	--	--	.76	.25	.25	.64	.11	.89
06...	80	--	--	--	--	1.1	.06	.06	.54	.31	.60
07...	100	--	--	--	--	1.2	.07	.07	.40	.27	.47
JAN., 1973											
08...	46	--	--	--	--	.87	.25	.25	.85	.43	1.1
08...	38	--	--	--	--	.61	.34	.34	5.4	.66	5.7
08...	24	--	--	--	--	.38	.26	.26	.00	.61	1.8
08...	30	--	--	--	--	.85	.22	.22	1.6	.58	1.8
17...	124	--	--	--	--	3.6	.13	.13	.77	.66	.90
17...	34	--	--	--	--	.70	.16	.16	1.8	.36	2.0
18...	34	--	--	--	--	.53	.16	.16	1.9	.25	2.1
18...	65	--	--	--	--	2.3	.25	.25	1.6	.63	1.8
FEB.											
05...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
19...	98	--	--	--	1.4	1.5	.15	.36	3.6	1.4	3.7
19...	25	7.6	4.4	.2	.67	.71	.30	--	3.1	--	3.4
19...	30	8.5	5.3	1.4	.48	.50	.30	--	2.2	--	2.5



## GUADALUPE RIVER BASIN

247

11167700 ROSS CREEK BELOW JARVIS ROAD, AT SAN JOSE, CALIF.--Continued

## CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
SEP., 1972											
27...	--	--	1.6	.34	--	--	--	--	--	--	--
27...	--	13	2.6	.45	--	--	--	--	--	--	--
27...	--	7.4	.98	.44	--	--	--	--	--	--	--
OCT.											
09...	2.6	6.5	.92	.41	--	--	--	--	--	--	--
09...	--	4.5	1.8	.30	--	66	.09	18.5	35	3	24
14...	--	1.6	.62	.19	--	40	.05	5.83	26	9	20
14...	.95	1.9	.50	.27	--	--	--	--	--	--	--
NOV.											
13...	.52	1.9	.62	.18	--	--	--	--	--	--	--
13...	.48	1.7	.69	.19	--	--	--	--	--	--	--
13...	.64	2.4	.86	.34	--	--	--	--	--	--	--
DEC.											
06...	.36	1.7	.46	.21	130	--	.18	4.21	--	--	--
06...	.37	1.7	.36	.19	256	--	.35	3.32	--	--	--
07...	.34	1.7	.27	.16	332	--	.45	3.32	--	--	--
JAN., 1973											
08...	.68	2.0	.34	.17	156	--	.21	5.05	--	--	--
08...	1.0	6.3	1.1	.10	86	--	.12	24.1	--	--	--
08...	.87	.56	1.4	.13	37	--	.05	19.9	--	--	--
08...	.80	2.7	.85	.26	82	--	.11	5.31	--	--	--
17...	.79	4.5	.64	.30	312	--	.42	21.9	--	--	--
17...	.52	2.7	1.1	.17	82	--	.11	50.9	--	--	--
18...	.41	2.6	1.6	.22	94	--	.13	135	--	--	--
18...	.88	4.1	1.4	.50	174	--	.24	33.8	--	--	--
FEB.											
05...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
19...	1.8	5.1	.45	.11	279	--	.38	12.1	--	--	--
19...	--	4.1	.94	.12	--	55	.07	18.7	32	7	31
19...	--	3.0	1.1	.22	--	59	.08	19.1	40	11	15

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CARRON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
SEP., 1972										
27...	--	322	6.0	19.0	--	--	--	--	--	--
27...	--	319	6.1	19.0	--	540	--	123	70000	--
27...	--	190	5.9	19.0	--	240	--	--	17000	--
OCT.										
09...	--	333	6.2	21.0	--	--	>25	--	--	--
09...	.4	113	6.2	19.5	--	--	>25	--	--	.1
14...	.3	60	6.7	--	--	36	--	--	--	--
14...	--	105	6.7	--	--	31	>26	--	--	--
NOV.										
13...	--	136	6.9	--	--	98	16	8.9	--	--
13...	--	59	7.1	--	--	54	--	2.9	--	--
13...	--	105	7.1	12.5	--	51	9.6	4.1	--	--
DEC.										
06...	--	172	6.9	8.0	--	33	8.4	10	--	--
06...	--	397	7.2	12.0	--	32	11	9.9	--	--
07...	--	543	6.9	7.0	--	30	7.2	25	--	--
JAN., 1973										
08...	--	241	7.1	7.0	--	44	19	7.1	--	--
08...	--	152	6.7	14.0	--	250	>50	15	--	--
08...	--	75	6.7	14.0	--	230	32	9.3	--	--
08...	--	112	6.9	10.0	--	80	14	7.3	--	--
17...	--	471	7.4	11.0	--	49	>46	9.6	--	--
17...	--	114	7.3	10.5	--	92	>48	3.3	--	--
18...	--	108	7.5	11.0	--	120	>46	2.1	--	--
18...	--	226	7.4	11.5	--	55	>42	5.0	--	--
FEB.										
05...	--	--	--	11.5	9.8	--	62	--	25000	--
06...	--	--	--	10.0	9.8	--	64	--	15000	--
06...	--	--	--	13.0	9.5	--	54	--	5000	--
MAR.										
19...	--	439	7.7	11.0	10.4	110	32	3.8	4400	.2
19...	.5	91	7.6	13.0	9.2	170	39	1.2	6200	.1
19...	.2	93	7.4	11.0	9.7	77	18	2.3	6000	.0

## GUADALUPE RIVER BASIN

11167700 ROSS CREEK BELOW JARVIS ROAD, AT SAN JOSE, CALIF.--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
OCT., 1972										
09...	1610	.00	1.2	.00	.00	.00	.47	.01	.00	.00
MAR., 1973										
19...	1655	.00	1.4	.00	.03	.10	.11	.03	.00	.00
19...	1940	.00	.7	.00	.01	.12	.06	.02	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
OCT., 1972									
09...	.00	.14	.53	.00	.00	.0	.00	.00	.16
MAR., 1973									
19...	.00	.00	.14	.00	.00	.0	.34	.05	.05
19...	.00	.00	.00	.00	.00	.0	1.9	.06	.10

## ANALYSES OF MINOR AND TRACE CONSTITUENTS, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)
SEP., 1972							
27...	0440	--	--	--	80	--	--
27...	0510	--	--	--	50	--	--
27...	0640	--	--	--	20	--	--
OCT.							
09...	1750	10	3	150	5	1	--
14...	0735	2	2	40	2	1	--
DEC.							
06...	0810	--	--	--	0	0	20
06...	1410	--	--	--	1	0	20
07...	0815	--	--	--	0	0	20
JAN., 1973							
08...	1040	--	--	--	1	1	240
08...	1650	--	--	--	3	1	220
08...	1720	--	--	--	1	1	210
08...	2015	--	--	--	2	1	380
17...	2110	--	--	--	1	0	60
17...	2255	--	--	--	1	0	90
18...	0825	--	--	--	1	6	80
18...	1545	--	--	--	1	1	60
MAR.							
19...	1615	4	0	--	<10	0	270
19...	1655	4	3	70	<10	0	420
19...	1940	4	2	60	<10	0	390

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
SEP., 1972							
27...	--	1800	--	2.0	--	--	--
27...	--	3100	--	2.1	--	--	--
27...	--	580	--	6.4	--	--	--
OCT.							
09...	--	--	44	1.4	.3	--	--
14...	--	200	22	.5	.3	--	--
DEC.							
06...	19	63	7	--	--	100	50
06...	17	71	12	--	--	70	50
07...	15	50	7	--	--	100	100
JAN., 1973							
08...	18	200	22	--	--	140	50
08...	20	1800	15	--	--	440	70
08...	40	1400	8	--	--	480	70
08...	70	300	9	--	--	450	90
17...	70	63	11	--	--	130	160
17...	20	300	5	--	--	210	50
18...	10	200	4	--	--	200	60
18...	20	42	7	--	--	150	70
MAR.							
19...	52	300	14	.2	.2	180	160
19...	10	600	1	.8	.3	380	30
19...	25	300	4	.9	.2	220	60

## GUADALUPE RIVER BASIN

249

11167700 ROSS CREEK BELOW JARVIS ROAD, AT SAN JOSE, CALIF.--Continued  
 SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE MENT (T/DAY)
OCT., 1972					
09...	1610	21.0	8.8	300	7.1
09...	1750	19.5	104	1600	449
14...	0735	--	54	187	27
14...	0930	--	12	84	2.7
NOV.					
13...	1225	--	137	251	93
13...	1400	--	201	270	147
13...	1910	12.5	165	246	110
DEC.					
06...	0810	8.0	12	74	2.4
06...	1410	12.0	4.8	37	.48
07...	0815	7.0	3.7	13	.13
JAN., 1973					
08...	1040	7.0	12	39	1.3
08...	2015	10.0	24	292	19
17...	2110	11.0	26	79	5.5
17...	2255	10.5	230	1050	652
18...	0825	11.0	530	1580	2260
18...	1545	11.5	72	377	73
FEB.					
05...	2030	11.5	52	92	13
06...	0745	10.0	210	782	443
06...	1615	13.0	153	490	202
MAR.					
19...	1615	11.0	16	177	7.6
19...	1655	13.0	126	850	289
19...	1940	11.0	120	645	209

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
OCT., 1972									
09...	1610	21.0	8.8	300	7.1	45	64	78	90
09...	1750	19.5	104	1600	449	31	34	43	59
14...	0735	--	54	187	27	--	--	--	--
NOV.									
13...	1225	--	137	251	93	34	49	61	73
13...	1400	--	201	270	147	34	50	61	69
13...	1910	12.5	165	246	110	44	62	74	85
DEC.									
06...	0810	8.0	12	74	2.4	--	--	--	--
FEB., 1973									
06...	0745	10.0	210	782	443	43	58	67	74
06...	1615	13.0	153	490	202	43	58	70	80

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
OCT., 1972								
09...	95	--	99	--	100	--	--	--
09...	72	84	--	97	--	100	--	--
14...	--	--	99	--	99	--	100	--
NOV.								
13...	79	--	92	--	99	--	100	--
13...	74	89	--	97	--	100	--	--
13...	92	--	98	--	100	--	--	--
DEC.								
06...	--	--	100	--	--	--	--	--
FEB., 1973								
06...	79	87	--	93	--	99	--	100
06...	83	92	--	98	--	100	--	--

# CALABAZAS CREEK BASIN

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.

LOCATION.--Lat 37°16'09", long 122°03'36", in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.3, T.8 S., R.2 W., Santa Clara County, at gaging station at culvert on Mt. Eden Road, 750 ft upstream from mouth, and 1.8 miles northwest of Saratoga Post Office.

DRAINAGE AREA.--0.37 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1972 (partial-record station).

Water temperatures: October 1972 to September 1973.

Sediment records: October 1972 to September 1973.

EXTREMES, --1972-73:

Sediment concentrations: Maximum daily, 3,000 mg/l Jan. 16; minimum daily, no flow for many days.

Sediment discharge: Maximum daily, 361 tons Jan. 16; minimum daily, 0 tons on many days.

REMARKS.--No flow Oct. 1-8, 12, 13, Oct. 24 to Nov. 3, June 29 to July 1, July 12 to Sept. 30.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALDRIN	CHLOR-DANE	DDD	ODE	DDT	DI- AZINON	DI- ELDRIN	ENDRIN
		IN BOTTOM DE- POSITS (UG/KG)	IN BOTTOM DE- POSITS (UG/KG)	IN BOTTOM DE- POSITS (UG/KG)	IN BOTTOM DE- POSITS (UG/KG)	IN BOTTOM DE- POSITS (UG/KG)	IN BOTTOM DE- POSITS (UG/KG)	IN BOTTOM DE- POSITS (UG/KG)	IN BOTTOM DE- POSITS (UG/KG)
SEP. 24...	1110	<.2	31	17	11	40	<.2	<.2	<.2

DATE	HEPTA- CHLOR IN BOTTOM DE- POSIT (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSIT (UG/KG)	LINDANE IN ROTTOM DE- POSIT (UG/KG)	MALA- THION IN ROTTOM DE- POSIT (UG/KG)	METHYL PARA- THION IN BOT- TOM DE- POSIT (UG/KG)	PARA- THION IN BOTTOM DE- POSIT (UG/KG)	2,4-D IN BOTTOM DE- POSIT (UG/KG)	2,4,5-T IN BOTTOM DE- POSIT (UG/KG)	SILVEX IN BOTTOM DE- POSIT (UG/KG)
SEP. 24...	<.2	<.2	<.2	<.2	<.2	<.2	<5	<2	<2

DATE	TIME	TOTAL ARSPNIC IN BOTTOM DE- POSIT (UG/G)	TOTAL CADMIUM IN BOTTOM DE- POSIT (UG/G)	TOTAL CHRO- MIUM IN BOTTOM DE- POSIT (UG/G)	TOTAL LEAD IN BOTTOM DE- POSIT (UG/G)	TOTAL MERCURY IN BOTTOM DE- POSIT (UG/G)
SEP. 24....	1110	4	2	56	30	.0

TEMPERATURE\* (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

[illegible]

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.--Continued

## TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	0	0	0	0	0	0	.06	7	0
2	0	0	0	0	0	0	.06	10	0
3	0	0	0	0	0	0	.05	9	0
4	0	0	0	.01	5	0	.06	8	0
5	0	0	0	.01	5	0	.07	8	0
6	0	0	0	.01	5	0	.47	104	.24
7	0	0	0	.01	5	0	.28	80	.07
8	0	0	0	.01	5	0	.23	130	.08
9	.01	5	0	.01	5	0	.13	99	.03
10	.02	5	0	.27	435	4.2	.08	123	.03
11	.02	119	.05	.22	602	.87	.10	120	.03
12	0	0	0	.02	80	0	.08	107	.02
13	0	0	0	2.0	1400	24	.08	100	.02
14	.01	46	0	3.7	620	8.5	.07	96	.02
15	.06	504	.18	11	1600	112	.06	97	.02
16	.06	433	.24	3.9	450	4.8	.05	110	.01
17	.03	30	0	.81	56	.12	.08	144	.03
18	.02	5	0	.45	18	.02	.06	81	.01
19	.02	5	0	.38	11	.01	.08	95	.02
20	.01	5	0	.32	9	.01	.08	116	.03
21	.01	5	0	.27	8	.01	.08	90	.02
22	.01	5	0	.19	8	0	.12	116	.03
23	.01	5	0	.10	8	0	.08	69	.01
24	0	0	0	.10	9	0	.08	55	.01
25	0	0	0	.10	12	0	.08	50	.01
26	0	0	0	.08	13	0	.09	80	.02
27	0	0	0	.08	10	0	.11	130	.04
28	0	0	0	.08	16	0	.12	99	.03
29	0	0	0	.06	10	0	.10	101	.03
30	0	0	0	.06	6	0	.08	95	.02
31	0	0	0	--	--	--	.08	71	.02
TOTAL	.29	--	.47	25.05	--	154.54	3.25	--	.90

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	.09	64	.02	.15	50	.02	1.6	140	.60
2	.10	61	.02	.15	44	.02	.80	55	.12
3	.07	61	.01	1.8	424	3.6	1.3	367	2.1
4	.06	66	.01	3.9	520	7.4	1.7	309	1.6
5	.05	76	.01	1.1	215	.64	.78	110	.23
6	.05	89	.01	16	1600	102	2.7	550	12
7	.05	66	.01	2.9	150	1.2	.70	60	.11
8	.51	460	1.7	.94	45	.11	.49	25	.03
9	13	1500	68	5.8	1100	75	.33	21	.02
10	1.2	150	.49	15	1150	84	.31	21	.02
11	.52	114	.18	6.4	730	17	.25	19	.01
12	.38	73	.07	3.2	390	4.8	.17	16	.01
13	.23	124	.08	4.8	380	7.8	.17	16	.01
14	.15	81	.03	3.2	240	2.6	.14	16	.01
15	.18	93	.05	1.1	60	.18	.13	15	.01
16	22	3000	361	.70	61	.12	.13	34	.01
17	6.3	930	52	.52	35	.05	.13	18	.01
18	22	2400	216	.45	21	.03	.13	16	.01
19	1.6	134	.58	.38	19	.02	3.1	580	13
20	.70	65	.12	.32	20	.02	1.1	101	.30
21	.48	50	.06	.27	20	.01	.85	85	.22
22	.36	67	.07	.27	21	.02	.43	60	.07
23	.22	93	.06	.27	31	.02	.25	51	.03
24	.16	92	.04	3.3	610	14	.20	46	.02
25	.19	96	.05	.61	100	.16	.17	40	.02
26	.10	101	.03	7.6	1200	58	.15	33	.01
27	.10	76	.02	21	2200	226	.17	32	.01
28	.10	69	.02	8.5	600	14	.14	36	.01
29	.52	105	.14	--	--	--	.14	45	.02
30	.94	60	.15	--	--	--	.14	46	.02
31	.27	35	.03	--	--	--	.13	47	.02
TOTAL	72.68	--	701.06	110.63	--	618.82	18.93	--	30.66

## CALABAZAS CREEK BASIN

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.11	49	.01	.03	25	0	.02	45	0
2	.10	56	.02	.03	29	0	.03	50	0
3	.09	60	.01	.03	28	0	.03	50	0
4	.09	68	.02	.03	27	0	.02	60	0
5	.09	57	.01	.03	26	0	.02	70	0
6	.09	42	.01	.02	25	0	.02	80	0
7	.08	33	.01	.02	25	0	.03	91	.01
8	.07	26	0	.02	24	0	.03	85	.01
9	.08	31	.01	.02	24	0	.03	80	.01
10	.07	66	.01	.02	25	0	.03	70	.01
11	.07	61	.01	.03	50	0	.02	65	0
12	.06	35	.01	.04	45	0	.02	65	0
13	.07	24	0	.04	45	0	.02	60	0
14	.05	22	0	.03	43	0	.02	57	0
15	.05	20	0	.03	42	0	.02	50	0
16	.05	19	0	.03	40	0	.01	40	0
17	.05	18	0	.03	40	0	.01	35	0
18	.05	17	0	.03	45	0	.01	30	0
19	.05	16	0	.03	45	0	.01	28	0
20	.04	15	0	.03	50	0	.01	26	0
21	.04	15	0	.03	55	0	.01	30	0
22	.04	15	0	.02	56	0	.01	40	0
23	.04	15	0	.03	55	0	.01	44	0
24	.04	14	0	.03	50	0	.01	40	0
25	.04	14	0	.03	50	0	.01	35	0
26	.04	14	0	.02	50	0	.01	30	0
27	.04	14	0	.02	50	0	.01	25	0
28	.04	15	0	.02	45	0	.01	20	0
29	.03	20	0	.02	45	0	0	0	0
30	.03	20	0	.02	45	0	0	0	0
31	--	--	--	.02	44	0	--	--	--
TOTAL	1.79	--	.13	.83	--	0	.49	--	.04

DAY	JULY			AUGUST			SEPTEMBER		
	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	0	0	0						
2	.02	10	0						
3	.02	10	0						
4	.02	10	0						
5	.02	10	0						
6	.01	10	0						
7	.01	10	0						
8	.01	10	0						
9	.01	10	0						
10	.01	10	0						
11	.01	10	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	0	0	0						
22	0	0	0						
23	0	0	0						
24	0	0	0						
25	0	0	0						
26	0	0	0						
27	0	0	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	0	0	0						
TOTAL	.14	--	0	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)  
TOTAL-SEDIMENT DISCHARGE FOR YEAR (TONS)

234.08  
1506.62

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL SED. FALL DIAM. % FINER THAN .125 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .125 MM	TOTAL SED. FALL DIAM. % FINER THAN .250 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .250 MM	TOTAL SED. FALL DIAM. % FINER THAN .500 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .500 MM	TOTAL SED. FALL DIAM. % FINER THAN 1.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 1.00 MM	TOTAL SED. FALL DIAM. % FINER THAN 2.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 4.00 MM
OCT.											
11...	--	87	--	90	--	94	--	98	--	100	--
11...	--	73	--	77	--	83	--	87	--	91	100
11...	--	93	--	100	--	--	--	--	--	--	--
NOV.											
13...	98	--	98	--	99	--	100	--	--	--	--
DEC.											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
09...	--	100	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
16...	95	--	99	--	100	--	--	--	--	--	--
18...	70	--	78	--	84	--	94	--	100	--	--
18...	83	--	92	--	100	--	--	--	--	--	--
FEB.											
19...	--	--	--	--	--	--	--	--	--	--	--
27...	92	--	98	--	100	--	--	--	--	--	--
MAR.											
06...	--	82	--	86	--	88	--	89	--	90	100
06...	--	92	--	97	--	100	--	--	--	--	--

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED.	SED.	
							BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	
MAR.									
06...	0755	9.0	3	13	6.0	5.0	1	8	
06...	0915	9.0	3	7.0	6.0	.83	2	7	
		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
DATE									
MAR.									
06...	30	41	49	54	61	61	61	100	
06...	28	52	76	90	100	--	--	--	





## 11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.---Continued

## TOTAL--SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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				0	0	0			
2				0	0	0			
3				0	0	0			
4				0	0	0			
5				0	0	0			
6				0	0	0			
7				0	0	0			
8				0	0	0			
9				0	0	0			
10				0	0	0			
11				0	0	0			
12				0	0	0			
13				.29	392	.62			
14				.56	714	1.4			
15				2.7	3680	92			
16				.44	1400	2.7			
17				.04	200	.02			
18				.02	150	.01			
19				.02	136	.01			
20				.01	110	0			
21				.01	60	0			
22				.01	30	0			
23				0	0	0			
24				0	0	0			
25				0	0	0			
26				0	0	0			
27				0	0	0			
28				0	0	0			
29				0	0	0			
30				0	0	0			
31				--	--	--			
TOTAL	0	--	0	4.10	--	96.76	0	--	0

DAY	JANUARY			FEBRUARY			MARCH		
	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	0	0	0	.20	30	.02	1.1	80	.24
2	0	0	0	.13	20	.01	.60	45	.07
3	0	0	0	1.1	230	1.0	.60	36	.07
4	0	0	0	2.2	315	2.1	.43	26	.03
5	0	0	0	1.2	135	.51	.30	11	.01
6	0	0	0	5.5	3120	78	.60	698	1.7
7	0	0	0	2.0	182	1.2	.39	70	.07
8	.02	154	.05	.92	50	.12	.33	50	.04
9	1.2	5240	22	2.8	2160	93	.27	20	.01
10	.45	1740	2.3	5.9	4390	135	.25	25	.02
11	.20	580	.31	4.2	2140	32	.23	20	.01
12	.13	1650	.54	2.0	430	2.7	.18	20	.01
13	.09	70	.02	3.0	1160	13	.16	15	.01
14	.07	70	.01	2.4	380	2.6	.16	15	.01
15	.06	1180	.15	1.8	100	.49	.20	15	.01
16	7.5	6040	319	1.4	70	.26	.20	10	.01
17	2.6	800	10	1.1	60	.18	.16	10	0
18	8.4	3890	132	.92	50	.12	.16	10	0
19	2.1	260	1.5	.70	40	.08	.70	405	2.1
20	1.3	33	.12	.70	30	.06	.81	320	.70
21	.77	32	.07	.60	25	.04	.48	130	.17
22	.34	30	.03	.51	20	.03	.39	60	.06
23	.14	32	.01	.51	15	.02	.32	40	.03
24	.06	40	.01	1.1	268	1.0	.27	30	.02
25	.06	42	.01	.51	100	.14	.25	30	.02
26	.05	30	0	2.6	2210	43	.23	30	.02
27	.04	25	0	6.4	4390	124	.16	30	.01
28	.04	20	0	2.2	920	7.7	.15	30	.01
29	.20	217	.19	--	--	--	.15	25	.01
30	.92	422	1.4	--	--	--	.13	25	.01
31	.30	40	.03	--	--	--	.13	25	.01
TOTAL	27.04	--	489.75	54.60	--	538.38	10.49	--	5.49

## CALABAZAS CREEK BASIN

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	.11	25	.01	.01	5	0			
2	.08	26	.01	.01	5	0			
3	.08	25	.01	.01	5	0			
4	.08	25	.01	.01	5	0			
5	.07	20	0	.01	5	0			
6	.06	20	0	0	0	0			
7	.05	20	0	.01	5	0			
8	.06	20	0	0	0	0			
9	.05	15	0	0	0	0			
10	.05	15	0	0	0	0			
11	.04	15	0	0	0	0			
12	.05	10	0	0	0	0			
13	.04	10	0	0	0	0			
14	.04	10	0	0	0	0			
15	.05	10	0	0	0	0			
16	.04	10	0	0	0	0			
17	.04	10	0	0	0	0			
18	.03	10	0	0	0	0			
19	.03	10	0	0	0	0			
20	.02	10	0	0	0	0			
21	.02	10	0	0	0	0			
22	.02	10	0	0	0	0			
23	.02	5	0	0	0	0			
24	.02	5	0	0	0	0			
25	.02	5	0	0	0	0			
26	.01	5	0	0	0	0			
27	.01	5	0	0	0	0			
28	.01	5	0	0	0	0			
29	.01	5	0	0	0	0			
30	.01	5	0	0	0	0			
31	--	--	--	0	0	0			
TOTAL	1.22	--	.04	.06	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

97.51

TOTAL-SEDIMENT DISCHARGE FOR YEAR (TONS)

1130.42

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDI- MENT (MG/L)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM	TOTAL SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
13...	1505	--	.05	218	.03	--	--	--	--	--	--
15...	1745	--	12	13400	434	25	30	37	47	56	65
JAN.											
16...	0750	11.0	39	28900	3040	20	25	31	39	49	--
16...	0915	11.0	24	14400	933	23	29	36	44	52	61
18...	0740	10.5	35	15200	1440	32	33	40	49	60	70
20...	0915	8.0	1.4	33	.12	--	--	--	--	--	--
DATE						TOTAL SED. FALL DIAM. % FINER THAN .062 MM	TOTAL SED. FALL DIAM. % FINER THAN .125 MM	TOTAL SED. FALL DIAM. % FINER THAN .250 MM	TOTAL SED. FALL DIAM. % FINER THAN .500 MM	TOTAL SED. FALL DIAM. % FINER THAN 1.00 MM	TOTAL SED. FALL DIAM. % FINER THAN 2.00 MM
NOV.											
13...	99	--	100	--	--	--	--	--	--	--	--
15...	--	82	--	93	--	98	--	99	--	100	--
JAN.											
16...	51	--	55	--	68	--	91	--	96	--	100
16...	--	76	--	90	--	98	--	99	--	100	--
18...	--	85	--	96	--	100	--	--	--	--	--
20...	79	--	83	--	100	--	--	--	--	--	--

## 257

LOCATION.--Lat 37°04'40", long 121°29'36", in NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec.11, T.10 S., R.4 E., Santa Clara County, at gaging station 0.7 mile downstream from Bear Creek, 5.0 miles upstream from Coyote Creek Dam, and 6.4 miles northeast of Gilroy.

PERIOD OF RECORD.--Water temperatures: December 1964 to September 1973.  
Sediment records: December 1964 to September 1973.

Sediment concentrations: Maximum daily, 1,110 mg/l Jan. 9; minimum daily, no flow for many days.  
Sediment discharge: Maximum daily, 8,710 tons Jan. 9; minimum daily, 0 tons on many days.

Sediment concentrations: Maximum daily, 3,220 mg/l Jan. 19, 1969; minimum daily, no flow for many days each year.

Sediment discharge: Maximum daily, 41,600 tons Jan. 19, 1969; minimum daily, 0 tons on many days each year.

REMARKS.--No flow Oct. 1 to Nov. 13, July 26 to Sept. 30.

[illegible]

## COYOTE CREEK BASIN

11169800 COYOTE CREEK NEAR GILROY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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				0	0	0	4.3	3	.03
2				0	0	0	3.9	3	.03
3				0	0	0	3.9	3	.03
4				0	0	0	4.4	3	.04
5				0	0	0	4.6	3	.04
6				0	0	0	11	7	.26
7				0	0	0	20	16	.86
8				0	0	0	16	3	.13
9				0	0	0	11	3	.09
10				0	0	0	9.0	2	.05
11				0	0	0	6.8	2	.04
12				0	0	0	6.2	2	.03
13				0	0	0	5.9	2	.03
14				694	535	1510	5.1	2	.03
15				676	193	548	5.1	2	.03
16				548	68	160	4.8	1	.01
17				211	12	8.1	6.2	1	.02
18				83	2	.45	15	6	.28
19				42	1	.11	17	3	.14
20				26	2	.14	14	3	.11
21				18	2	.10	11	2	.06
22				14	2	.08	10	2	.05
23				11	2	.06	9.6	2	.05
24				8.9	2	.05	8.8	2	.05
25				7.6	2	.04	7.8	2	.04
26				6.8	2	.04	6.8	1	.02
27				5.8	2	.03	6.5	1	.02
28				5.1	2	.03	6.8	1	.02
29				4.5	2	.02	6.2	1	.02
30				4.3	2	.02	5.4	1	.01
31				--	--	--	5.1	1	.01
TOTAL	0	--	0	2366.0	--	2227.27	258.2	--	2.63

DAY	JANUARY			FEBRUARY			MARCH		
	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	5.1	1	.01	102	2	.55	373	20	20
2	4.8	1	.01	82	2	.44	250	5	3.4
3	4.7	1	.01	75	1	.20	215	10	6.6
4	4.5	1	.01	118	8	2.8	215	4	2.3
5	4.2	1	.01	155	5	2.1	173	3	1.4
6	4.0	1	.01	1060	462	2370	202	14	9.5
7	3.8	1	.01	1470	438	2040	190	8	4.1
8	7.9	2	.04	544	58	96	209	11	6.4
9	1420	1110	8710	332	20	19	172	4	1.9
10	552	140	312	1370	456	2100	151	3	1.2
11	180	10	4.9	1690	474	2400	152	3	1.2
12	190	5	2.6	1040	167	481	126	3	1.0
13	120	2	.65	1380	302	1280	108	2	.58
14	82	2	.44	950	114	319	96	1	.26
15	61	2	.33	664	32	57	85	1	.23
16	1150	759	4300	426	20	23	77	1	.21
17	855	174	470	299	10	8.1	71	1	.19
18	885	333	1170	220	5	3.0	66	1	.18
19	596	56	107	173	3	1.4	80	4	1.6
20	258	16	11	140	2	.76	226	16	12
21	176	8	3.8	118	2	.64	155	6	2.9
22	119	3	.96	100	1	.27	176	5	2.4
23	85	2	.46	87	1	.23	137	2	.74
24	65	1	.18	98	6	1.6	114	2	.62
25	64	1	.17	92	2	.50	102	2	.55
26	56	1	.15	121	6	2.9	94	1	.25
27	44	1	.12	448	200	423	86	1	.23
28	39	1	.11	760	108	257	78	1	.21
29	38	2	.21	--	--	--	69	1	.19
30	221	31	23	--	--	--	66	1	.18
31	145	4	1.6	--	--	--	76	1	.21
TOTAL	7440.0	--	15119.79	14114	--	11890.49	4390	--	82.73

## COYOTE CREEK BASIN

259

11169800 COYOTE CREEK NEAR GILROY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	61	1	.16	15	12	.49	3.6	2	.02
2	54	1	.15	14	9	.34	3.4	2	.02
3	49	2	.26	13	7	.25	3.2	2	.02
4	46	4	.50	13	7	.25	3.0	2	.02
5	43	5	.58	13	7	.25	2.7	1	.01
6	41	5	.55	12	7	.23	2.3	1	.01
7	39	4	.42	12	6	.19	2.1	1	.01
8	36	4	.39	11	6	.18	1.8	2	.01
9	35	3	.28	10	6	.16	1.6	2	.01
10	34	3	.28	9.8	6	.16	1.6	3	.01
11	32	2	.17	9.1	6	.15	1.6	3	.01
12	30	2	.16	8.5	7	.16	1.8	4	.02
13	41	3	.40	8.0	7	.15	1.6	4	.02
14	46	3	.37	7.7	8	.17	1.6	5	.02
15	33	2	.18	7.3	8	.16	1.8	5	.02
16	30	2	.16	6.7	9	.16	2.0	4	.02
17	28	2	.15	6.2	9	.15	1.8	4	.02
18	26	2	.14	5.7	9	.14	1.8	3	.01
19	25	2	.14	5.3	8	.11	1.6	3	.01
20	24	2	.13	5.2	7	.10	1.6	2	.01
21	23	3	.19	5.1	6	.08	1.6	2	.01
22	22	3	.18	5.1	6	.08	1.3	3	.01
23	21	4	.23	4.9	5	.07	1.2	4	.01
24	20	4	.22	4.9	4	.05	1.1	4	.01
25	19	5	.26	5.0	4	.05	.97	5	.01
26	18	5	.24	4.7	4	.05	.81	5	.01
27	17	6	.28	4.3	4	.05	.68	6	.01
28	17	8	.37	4.1	3	.03	.63	7	.01
29	16	9	.39	3.7	3	.03	.66	5	.01
30	16	10	.43	3.5	3	.03	.57	3	0
31	--	--	--	3.6	3	.03	--	--	--
TOTAL	942	--	8.36	241.4	--	4.50	52.02	--	.39

DAY	JULY			AUGUST			SEPTEMBER		
	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	.57	4	.01						
2	.49	5	.01						
3	.49	6	.01						
4	.42	7	.01						
5	.36	8	.01						
6	.36	6	.01						
7	.36	4	0						
8	.31	4	0						
9	.27	5	0						
10	.22	5	0						
11	.18	6	0						
12	.15	6	0						
13	.12	5	0						
14	.12	4	0						
15	.12	5	0						
16	.12	5	0						
17	.09	6	0						
18	.09	6	0						
19	.06	7	0						
20	.06	4	0						
21	.04	2	0						
22	.04	1	0						
23	.02	1	0						
24	.02	1	0						
25	.02	1	0						
26	0	0	0						
27	0	0	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	0	0	0						
TOTAL	5.10	--	.06	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

29808.72

29336.22

## COYOTE CREEK BASIN

11169800 COYOTE CREEK NEAR GILROY, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE MENT CHARGE (MG/L)	SUS- PENDE MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
14...	1600	10.5	314	36	31	--	--	--	--	--
16...	0715	10.0	600	75	121	--	--	--	--	--
17...	1025	10.0	212	5	2.9	--	--	--	--	--
JAN.										
09...	1157	5.0	725	277	542	45	58	68	79	88
09...	1501	6.0	2940	2620	20800	37	42	55	68	83
09...	1751	6.5	3880	3240	33900	36	37	47	61	77
10...	1153	8.0	448	64	77	--	--	--	--	--
16...	1120	10.5	1670	1460	6580	24	31	41	53	66
16...	1435	10.5	2830	1830	14000	31	33	45	61	72
17...	0800	9.0	990	196	524	30	44	57	73	84
17...	1114	9.0	840	155	352	--	--	--	--	--
FEB.										
10...	0800	10.0	1830	593	2930	26	35	47	61	74
11...	1025	10.0	2070	616	3440	23	33	44	57	70
11...	1730	10.0	1540	309	1290	35	46	59	75	90

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.									
14...	--	99	--	100	--	--	--	--	--
16...	--	94	--	96	--	100	--	--	--
17...	--	93	--	100	--	--	--	--	--
JAN.									
09...	--	92	--	98	--	100	--	--	--
09...	90	--	96	--	99	--	100	--	--
09...	87	--	97	--	100	--	--	--	--
10...	--	96	--	100	--	--	--	--	--
16...	77	--	86	--	94	--	100	--	--
16...	82	--	90	--	96	--	99	--	100
17...	--	90	--	94	--	97	--	100	--
17...	--	84	--	89	--	93	--	100	--
FEB.									
10...	82	--	93	--	100	--	--	--	--
11...	79	--	90	--	99	--	100	--	--
11...	--	98	--	100	--	--	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.
				% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM
JAN.							
08...	1055	1	5.1	1	2	11	43
08...	1100	1	5.1	--	--	1	3
08...	1105	1	5.1	--	--	1	3
08...	1110	1	5.1	--	--	--	4
08...	1115	1	5.1	--	--	--	1
DATE		BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN
		1.00 MM	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM
		64.0 MM					
JAN.							
08...	58	70	82	96	100	--	--
08...	11	25	40	59	78	84	100
08...	10	20	31	49	74	100	--
08...	12	24	35	47	61	78	100
08...	2	7	19	40	77	100	--

## ALAMEDA CREEK BASIN

261

11176500 ARROYO VALLE NEAR LIVERMORE, CALIF.

LOCATION.--Lat 37°37'24", long 121°45'28", in Valle de San Jose Grant, Alameda County, temperature recorder at gaging station on right bank, 900 ft downstream from highway bridge, 1.1 miles upstream from Dry Creek, 1.3 miles downstream from Del Valle Dam, 4.1 miles south of Livermore, and 6.9 miles southeast of Pleasanton.

DRAINAGE AREA.--147 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), December 1958 to July 1966.

Water temperatures: October 1959 to September 1961, October 1962 to September 1973.

Sediment records: October 1962 to September 1967.

EXTREMES.--1972-73:

Water temperatures: Maximum, 26.5°C June 6, July 4; minimum, 4.5°C Dec. 14-16, Jan. 27.

Period of record:

Water temperatures: Maximum, 30.5°C June 14, 1966; minimum, 4.0°C Jan. 2, Dec. 28, 1966, Dec. 14, 1967.

REMARKS.--Recorder stopped Oct. 3, 4, Feb. 16-21, May 12 to June 4, June 7 to July 2, July 13-19, Sept. 4-30.

Where no maximum or minimum is shown, temperature is once-daily reading.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	15.0	-- 15.0	14.0	-- 13.5	9.5	-- 9.5	8.0	-- 7.5	12.0	-- 7.5	10.0	-- 9.0
2	16.0	-- 15.0	15.5	-- 14.0	9.5	-- 9.5	8.0	-- 7.5	10.0	-- 8.5	12.0	-- 9.0
3	--	--	15.5	-- 14.5	10.0	-- 9.5	8.5	-- 7.5	10.0	-- 9.5	10.0	-- 10.0
4	--	--	15.5	-- 15.0	10.0	-- 9.0	7.5	-- 6.0	11.5	-- 9.5	10.0	-- 9.5
5	18.0	-- 15.5	15.0	-- 14.5	9.0	-- 8.5	7.0	-- 6.0	10.5	-- 9.0	10.5	-- 9.5
6	19.0	-- 16.0	14.5	-- 13.5	9.0	-- 8.5	6.5	-- 6.0	12.0	-- 10.0	10.5	-- 10.0
7	18.0	-- 15.5	14.0	-- 14.0	8.5	-- 8.0	6.0	-- 5.5	10.0	-- 9.5	10.5	-- 9.5
8	16.5	-- 16.0	14.0	-- 13.0	8.0	-- 7.0	6.0	-- 6.0	10.5	-- 9.5	11.0	-- 10.0
9	16.0	-- 16.0	13.0	-- 12.5	7.0	-- 6.5	7.5	-- 6.5	9.5	-- 9.5	11.0	-- 10.0
10	16.5	-- 16.0	13.5	-- 13.0	6.5	-- 6.0	8.5	-- 7.5	9.5	-- 9.5	11.0	-- 10.0
11	16.5	-- 16.0	13.0	-- 12.5	6.0	-- 5.0	9.0	-- 8.5	9.5	-- 9.5	10.5	-- 10.0
12	16.5	-- 16.0	13.0	-- 12.5	5.5	-- 5.0	12.0	-- 8.5	9.5	-- 9.5	10.5	-- 10.0
13	16.5	-- 16.0	12.5	-- 12.5	5.5	-- 5.0	11.0	-- 10.5	10.5	-- 9.5	12.0	-- 10.0
14	16.0	-- 16.0	12.5	-- 12.5	5.0	-- 4.5	11.5	-- 11.0	10.5	-- 9.0	11.0	-- 9.5
15	16.5	-- 16.0	12.5	-- 12.5	5.0	-- 4.5	11.0	-- 11.0	10.5	-- 9.5	11.0	-- 9.5
16	16.0	-- 16.0	12.5	-- 12.5	5.0	-- 4.5	11.0	-- 10.5	--	--	11.0	-- 10.0
17	16.5	-- 16.0	13.0	-- 12.0	5.0	-- 5.0	10.5	-- 10.0	--	--	11.0	-- 9.5
18	17.5	-- 14.5	12.5	-- 12.0	6.0	-- 5.0	10.5	-- 9.0	--	--	13.0	-- 9.0
19	16.0	-- 16.0	12.5	-- 12.0	7.0	-- 6.0	9.5	-- 8.0	--	--	10.0	-- 9.5
20	16.5	-- 15.0	12.5	-- 11.5	8.0	-- 7.0	8.5	-- 7.0	--	--	11.0	-- 9.5
21	16.5	-- 16.0	12.0	-- 11.0	10.0	-- 8.0	8.5	-- 7.5	--	9.5	10.5	-- 9.5
22	16.0	-- 15.5	12.0	-- 11.0	10.5	-- 9.5	8.5	-- 6.5	12.0	-- 7.0	10.5	-- 9.5
23	17.0	-- 16.0	11.0	-- 10.0	10.0	-- 9.5	7.0	-- 5.0	11.5	-- 8.5	10.5	-- 9.5
24	16.0	-- 15.5	10.5	-- 10.0	10.5	-- 10.0	6.0	-- 5.5	13.5	-- 11.0	11.0	-- 9.5
25	16.0	-- 15.0	11.0	-- 9.5	10.0	-- 9.0	6.5	-- 6.0	13.5	-- 10.5	10.5	-- 10.0
26	15.5	-- 15.0	11.0	-- 9.5	9.5	-- 8.5	8.0	-- 5.5	12.5	-- 11.0	11.5	-- 10.0
27	15.5	-- 15.0	10.5	-- 9.5	9.5	-- 8.5	6.5	-- 4.5	11.0	-- 10.0	11.0	-- 10.0
28	15.0	-- 14.5	16.0	-- 9.0	9.0	-- 7.5	8.0	-- 6.0	10.5	-- 10.0	10.5	-- 9.5
29	14.5	-- 13.5	10.0	-- 9.5	8.0	-- 7.0	8.0	-- 6.0	--	--	10.5	-- 9.5
30	13.5	-- 12.5	10.0	-- 9.0	8.0	-- 7.5	9.5	-- 7.5	--	--	10.5	-- 9.5
31	13.5	-- 13.0	--	--	8.0	-- 7.5	11.0	-- 9.0	--	--	13.5	-- 10.0
MONTH	19.0	-- 12.5	15.5	-- 9.0	10.5	-- 4.5	12.0	-- 4.5	13.5	-- 7.0	13.5	-- 9.0
DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	15.0	-- 10.0	16.5	-- 10.0	--	--	--	--	25.0	-- 21.0	23.0	-- 19.0
2	14.0	-- 9.0	16.0	-- 11.0	--	--	--	23.5	--	25.5	-- 20.5	23.0
3	15.5	-- 9.5	17.0	-- 11.0	--	--	--	22.5	-- 20.0	25.5	-- 20.5	23.5
4	17.5	-- 10.0	14.5	-- 11.5	--	23.5	--	26.5	-- 20.5	26.0	-- 21.5	--
5	17.5	-- 11.5	16.0	-- 11.0	25.5	-- 19.0	--	25.0	-- 22.5	25.0	-- 21.5	--
6	17.5	-- 12.0	15.5	-- 11.5	24.5	-- 20.5	22.5	-- 20.5	26.0	-- 22.0	--	--
7	17.0	-- 11.5	16.0	-- 11.5	--	--	--	21.5	-- 20.5	24.0	-- 21.5	--
8	17.5	-- 11.0	17.0	-- 11.0	--	--	--	21.5	-- 20.0	24.0	-- 21.0	--
9	14.5	-- 12.0	17.0	-- 11.0	--	--	--	26.0	-- 20.5	23.0	-- 20.0	--
10	18.0	-- 11.5	18.0	-- 11.0	--	--	--	24.0	-- 22.0	24.0	-- 19.0	--
11	17.0	-- 10.5	18.5	-- 11.5	--	--	--	22.5	-- 21.5	23.5	-- 19.0	--
12	15.0	-- 10.5	--	--	--	--	--	23.0	-- 21.0	23.0	-- 19.5	--
13	13.0	-- 11.0	--	--	--	--	--	--	--	25.0	-- 19.5	--
14	14.0	-- 11.0	--	--	--	--	--	--	--	25.5	-- 21.0	--
15	13.5	-- 11.0	--	--	--	--	--	--	--	25.0	-- 20.5	--
16	16.5	-- 12.0	--	--	--	--	--	--	--	24.0	-- 20.5	--
17	16.0	-- 13.0	--	--	--	--	--	23.0	--	23.0	-- 19.0	--
18	15.5	-- 10.0	--	--	--	--	--	--	--	24.0	-- 19.0	--
19	14.5	-- 10.0	--	--	--	--	--	21.0	--	24.0	-- 19.5	--
20	15.0	-- 10.0	--	--	--	--	21.0	-- 18.0	--	24.0	-- 20.0	--
21	16.0	-- 10.0	--	--	--	--	21.5	-- 18.5	--	23.0	-- 19.5	--
22	16.5	-- 10.0	--	--	--	--	20.5	-- 18.0	--	21.5	-- 19.0	--
23	16.5	-- 10.0	--	--	--	--	20.5	-- 18.0	--	20.0	-- 18.0	--
24	17.0	-- 10.5	--	--	--	--	22.0	-- 17.5	--	20.5	-- 18.0	--
25	17.5	-- 11.0	--	--	--	--	24.0	-- 18.5	--	20.5	-- 18.5	--
26	17.0	-- 11.0	--	--	--	--	24.5	-- 20.0	--	21.0	-- 18.5	--
27	16.5	-- 10.5	--	--	--	--	24.5	-- 20.5	--	22.0	-- 18.5	--
28	15.0	-- 10.5	--	--	--	--	24.0	-- 20.0	--	23.5	-- 19.0	--
29	15.5	-- 10.0	--	--	--	--	25.0	-- 21.0	--	23.5	-- 20.0	--
30	16.0	-- 10.0	--	--	--	--	25.5	-- 21.0	--	23.5	-- 20.0	--
31	13.5	-- 10.0	--	--	--	--	25.5	-- 21.5	--	22.0	-- 20.0	--
MONTH	18.0	-- 9.0	--	--	--	--	--	--	26.0	-- 18.0	--	--

## ALAMEDA CREEK BASIN

11179000 ALAMEDA CREEK NEAR NILES, CALIF.

LOCATION.--Lat 37°35'14", long 121°57'35", in NW¼ sec.15, T.4 S., R.1 W., Alameda County, at gaging station 0.3 mile downstream from railroad bridge, and 1.2 miles northeast of Niles.

DRAINAGE AREA.--633 sq mi.

PERIOD OF RECORD.--Chemical analyses: January to November 1906, water years 1952-53 (partial-record station), October 1953 to September 1967, October 1968 to August 1969.  
 Water temperatures: July 1956 to September 1973 (discontinued).  
 Sediment records: January 1957 to September 1973 (discontinued).

## EXTREMES.--1972-73:

Water temperatures: Maximum, 23.0°C May 28, July 31, Aug. 20; minimum, 2.5°C Dec. 12.

Sediment concentrations: Maximum daily, 4,270 mg/l Jan. 16; minimum daily, 5 mg/l June 8, 12, 13, 24, 25.

Sediment discharge: Maximum daily, 49,500 tons Jan. 18; minimum daily, 0.36 ton Oct. 31.

## Period of record:

Water temperatures: Maximum (1956-62, 1964-73), 31.0°C June 1, 1960; minimum, 2.5°C Dec. 12, 1972.

Sediment concentrations: Maximum daily, 5,340 mg/l Apr. 3, 1958; minimum daily, no flow for many days in 1957, 1959-61.

Sediment discharge: Maximum daily, 285,000 tons Apr. 3, 1958; minimum daily, 0 tons on many days in 1957, 1959-61.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
 (ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	12.0	9.5	7.0	10.0	12.0	14.0	14.0	17.0	15.0	---	---
2	18.0	14.5	9.5	5.5	10.0	11.0	10.0	18.5	21.0	15.5	20.0	---
3	---	15.0	11.0	7.0	10.0	10.0	14.0	17.0	16.5	19.0	---	---
4	17.0	17.0	10.0	5.5	11.0	10.5	16.0	15.0	20.0	---	20.0	---
5	---	15.0	7.5	5.0	10.0	11.0	16.5	---	19.0	20.5	---	---
6	17.0	13.0	9.0	5.0	10.5	11.0	16.0	13.5	20.0	---	20.5	18.0
7	---	13.5	8.0	4.5	11.0	11.0	16.5	---	18.0	20.5	---	---
8	17.0	13.0	7.0	6.0	10.5	10.5	---	17.5	17.5	---	20.0	---
9	---	12.0	4.0	8.0	10.5	11.5	13.5	---	18.0	21.0	---	---
10	16.5	13.0	4.0	9.5	10.0	12.0	16.5	15.0	16.5	---	19.5	21.0
11	---	12.0	4.0	10.5	---	10.0	16.0	18.5	15.5	19.5	---	---
12	17.0	13.0	2.5	12.0	9.5	12.0	12.0	16.0	14.5	---	19.5	18.0
13	---	12.5	5.0	12.0	10.0	12.0	14.5	16.0	15.0	22.0	---	---
14	16.5	12.0	3.0	12.0	10.5	11.5	15.5	16.0	13.5	---	20.0	17.5
15	---	12.0	4.0	12.0	10.0	10.5	---	19.0	16.5	19.5	---	---
16	15.5	12.0	5.5	11.5	9.5	13.0	15.0	16.5	18.5	---	20.0	18.0
17	---	12.0	8.0	10.0	---	12.0	17.0	18.0	15.0	21.0	---	---
18	15.5	13.0	10.0	10.0	11.0	11.0	15.0	19.0	14.0	---	19.5	19.5
19	---	12.0	12.0	8.0	11.0	10.0	16.0	17.0	16.0	19.0	---	---
20	16.0	12.5	13.0	7.0	---	10.0	15.0	16.0	15.0	---	23.0	21.5
21	---	12.0	12.0	9.0	11.0	10.0	---	16.0	16.0	22.0	---	---
22	16.0	12.0	12.5	7.0	12.0	10.0	18.0	16.0	15.5	---	18.5	17.5
23	---	10.5	11.0	7.0	---	10.5	17.0	15.0	---	18.0	---	---
24	15.5	12.0	12.0	8.0	10.5	13.5	18.0	16.0	15.5	---	18.0	17.5
25	---	11.0	11.0	9.0	11.5	13.0	16.0	16.0	16.5	19.0	---	---
26	14.5	10.5	9.5	8.0	---	11.0	16.0	14.0	19.0	---	18.0	16.5
27	---	10.0	10.0	9.0	12.0	13.0	---	21.0	16.5	21.0	---	---
28	15.5	9.5	9.0	9.5	---	13.0	16.0	23.0	---	---	22.0	17.5
29	---	9.5	7.0	10.0	---	13.0	17.5	18.0	16.0	20.0	---	---
30	12.0	8.5	7.0	10.0	---	12.0	18.0	17.5	---	---	---	19.0
31	---	---	7.0	10.0	---	13.5	---	16.0	---	23.0	---	---
MONTH	---	12.0	8.0	8.5	10.5	11.5	15.5	17.0	16.5	---	---	---



## ALAMEDA CREEK BASIN

263

11179000 ALAMEDA CREEK NEAR NILES, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	61	15	2.5	25	14	1.5	35	18	1.7
2	62	9	1.5	67	36	6.5	34	16	1.5
3	66	9	1.6	68	26	4.8	33	17	1.5
4	48	15	1.8	79	62	14	34	20	1.8
5	59	16	2.6	39	63	7.5	15	12	1.49
6	61	16	2.6	54	36	5.2	51	44	4.5
7	62	16	2.7	59	48	8.1	66	152	28
8	63	15	2.6	28	45	3.4	57	155	24
9	33	14	1.2	16	29	1.3	26	86	6.0
10	29	11	.84	90	221	89	22	34	2.0
11	80	321	143	265	1890	1560	20	20	1.1
12	69	511	110	64	442	96	20	15	.81
13	33	201	18	46	85	11	18	13	.63
14	49	139	26	390	711	777	18	13	.63
15	82	202	45	203	587	417	19	13	.67
16	28	138	10	422	931	1230	18	14	.63
17	36	120	12	105	223	74	51	42	6.7
18	36	90	9.2	43	56	6.5	69	147	27
19	36	40	3.9	31	28	2.3	105	350	106
20	54	45	6.6	27	20	1.5	63	282	48
21	54	40	5.8	25	17	1.1	37	85	8.9
22	53	35	5.0	39	34	3.6	58	148	26
23	52	31	4.4	39	21	2.2	39	73	7.7
24	49	28	3.7	29	19	1.5	31	32	2.7
25	51	25	3.4	36	17	1.7	26	21	1.5
26	12	13	.42	35	16	1.5	22	16	.96
27	21	21	1.2	34	16	1.5	22	14	.83
28	60	34	5.5	34	17	1.6	27	16	1.2
29	60	33	5.3	35	16	1.5	20	21	1.1
30	17	10	.50	35	17	1.6	16	21	.91
31	15	9	.36	--	--	--	19	19	.97
TOTAL	1491	--	439.22	2462	--	4334.4	1091	--	320.47
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	16	18	.78	90	90	22	1480	550	2200
2	16	18	.78	70	40	7.6	1270	320	1100
3	17	16	.73	78	38	9.3	852	338	1070
4	16	19	.82	162	125	66	1130	412	1340
5	16	20	.86	140	154	58	744	150	301
6	17	22	1.0	1810	2560	18700	949	394	1230
7	16	23	.99	1100	1350	4600	831	200	444
8	58	152	75	796	575	1240	972	524	1420
9	1300	3500	20600	766	640	1320	731	155	306
10	684	1460	3700	1910	1710	10300	666	87	162
11	340	794	1160	1580	1240	5290	769	265	550
12	719	1130	2190	1690	800	3650	588	92	130
13	215	480	279	1950	675	3550	506	55	75
14	110	190	56	2090	690	3890	385	45	47
15	79	85	18	1730	450	2100	366	35	35
16	2400	4270	45700	1430	270	1040	342	28	26
17	1050	1600	4540	774	130	272	319	26	22
18	3750	3540	49500	537	115	167	290	14	15
19	1050	854	2770	473	80	102	316	157	144
20	321	255	221	437	75	88	656	434	1740
21	313	261	229	462	150	187	519	284	463
22	207	152	87	409	90	99	591	203	339
23	132	85	30	301	40	33	471	71	90
24	102	48	13	294	38	30	400	38	41
25	132	88	33	275	38	28	363	31	30
26	148	101	42	389	290	449	332	26	23
27	78	60	13	1720	1720	15000	307	20	17
28	65	35	6.1	1660	1530	7830	292	21	17
29	84	47	11	--	--	--	280	19	14
30	215	371	223	--	--	--	277	19	14
31	127	238	82	--	--	--	279	21	16
TOTAL	13793	--	131584.06	25143	--	80127.9	18323	--	14526

## ALAMEDA CREEK BASIN

11179000 ALAMEDA CREEK NEAR NILES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	251	14	9.5	59	15	2.4	160	7	3.0
2	240	12	7.8	54	13	1.9	163	6	2.6
3	224	11	6.7	30	10	1.0	158	7	3.0
4	227	12	7.4	55	13	2.5	157	6	2.5
5	214	10	5.8	160	24	10	158	6	2.6
6	233	11	6.9	166	17	7.6	153	6	2.5
7	238	11	7.1	166	15	6.7	148	7	2.8
8	232	10	6.3	166	11	4.9	145	5	2.0
9	230	8	5.0	168	10	4.5	146	6	2.4
10	226	8	4.9	168	10	4.5	150	8	3.2
11	211	9	5.1	171	10	4.6	158	7	3.0
12	200	8	4.3	166	9	4.0	161	5	2.2
13	226	12	7.6	163	10	4.4	163	5	2.2
14	223	9	5.4	166	8	3.6	170	6	2.8
15	212	7	4.0	168	10	4.5	167	7	3.2
16	206	9	5.0	163	10	4.4	163	8	3.5
17	199	9	4.8	163	10	4.4	148	9	4.1
18	190	9	4.6	163	10	4.4	164	6	2.7
19	189	9	4.6	168	10	4.5	156	6	2.5
20	183	6	3.0	177	11	5.3	147	8	3.2
21	181	7	3.4	171	8	3.7	144	9	3.5
22	199	14	7.5	171	9	4.2	144	7	2.7
23	195	12	6.3	171	10	4.6	152	8	2.5
24	180	8	3.9	171	10	4.6	156	5	2.1
25	175	11	5.2	168	8	3.6	154	5	2.1
26	178	10	4.8	166	8	3.6	144	6	2.3
27	164	9	4.0	174	13	6.1	145	9	3.5
28	137	10	3.7	171	18	8.3	144	8	3.1
29	142	12	4.6	168	12	5.4	138	6	2.2
30	127	14	4.8	163	10	4.4	145	7	2.7
31	--	--	--	160	8	3.5	--	--	--
TOTAL	6032	--	164.0	4722	--	142.1	4621	--	82.7

DAY	JULY			AUGUST			SEPTEMBER		
	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	149	8	3.2	29	28	2.2	51	32	4.4
2	136	8	2.9	30	26	2.1	51	30	4.1
3	30	11	.85	30	29	2.3	52	30	4.2
4	24	12	.78	30	25	2.0	54	30	4.6
5	34	22	2.0	31	25	2.1	52	28	3.9
6	41	25	2.8	30	22	1.8	53	26	3.7
7	32	18	1.6	30	26	2.1	51	24	3.3
8	36	21	2.0	73	76	15	40	17	1.8
9	33	18	1.6	71	65	12	42	15	1.7
10	49	29	3.8	70	60	11	49	17	2.2
11	49	28	3.7	69	56	10	52	22	3.1
12	48	24	3.1	71	53	10	52	28	3.9
13	29	18	1.4	62	46	7.7	50	24	3.2
14	31	17	1.4	61	41	6.8	48	21	2.7
15	33	26	2.3	73	54	11	33	15	1.3
16	32	24	2.1	71	63	12	32	8	.64
17	32	17	1.5	73	61	12	32	8	.64
18	34	19	1.7	74	66	13	31	7	.59
19	34	17	1.6	74	54	11	32	7	.69
20	34	19	1.7	74	45	9.0	32	8	.64
21	34	16	1.5	74	48	9.6	31	8	.67
22	34	19	1.7	71	54	10	31	18	1.5
23	34	26	2.4	70	48	9.1	36	21	2.0
24	32	22	1.9	62	45	7.5	34	16	1.5
25	31	36	3.0	64	45	7.8	34	15	1.4
26	30	38	3.1	65	47	8.2	32	18	1.6
27	31	40	3.3	65	43	7.5	32	17	1.5
28	32	38	3.3	63	40	6.8	31	20	1.7
29	32	36	3.1	62	39	6.5	30	16	1.3
30	31	36	3.0	62	38	6.4	31	11	.92
31	31	37	3.1	60	35	5.7	--	--	--
TOTAL	1272	--	71.43	1844	--	240.2	1211	--	65.25

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

82005

231097.73

## ALAMEDA CREEK BASIN

265

11179000 ALAMEDA CREEK NEAR NILES, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
OCT.										
12...	1030	17.0	64	551	95	81	96	100	--	--
NOV.										
15...	1000	12.0	154	405	168	85	95	98	99	99
16...	1115	12.0	386	807	841	74	89	95	99	99
17...	1420	12.0	88	171	41	79	87	92	95	96
JAN.										
09...	1415	8.0	950	2920	7490	48	58	71	85	94
14...	1130	11.5	3020	7060	57600	30	36	48	62	77
16...	1545	11.5	6750	7060	129000	55	57	69	82	88
17...	1335	10.0	878	1170	2770	57	65	77	90	98
18...	1200	10.0	4820	5060	65900	49	52	59	72	87
20...	0845	7.0	341	258	238	--	--	--	--	--
22...	0915	7.0	206	162	90	--	--	--	--	--
FEB.										
06...	1530	10.5	4360	4550	53600	41	47	58	70	82
12...	1415	9.5	1630	638	2810	42	54	64	76	83
14...	1430	10.5	2400	972	6300	27	36	46	58	69
16...	1045	9.5	1450	288	1130	52	66	78	89	96
27...	1330	12.0	693	571	1070	38	52	64	76	84
MAR.										
03...	1330	10.0	611	125	206	--	--	--	--	--
06...	1245	11.0	1150	599	1860	34	46	56	67	74
07...	1400	11.0	764	164	338	--	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT.									
12...	--	--	--	--	--	--	--	--	--
NOV.									
15...	--	99	--	100	--	--	--	--	--
16...	--	100	--	--	--	--	--	--	--
17...	--	97	--	99	--	100	--	--	--
JAN.									
09...	98	--	100	--	--	--	--	--	--
16...	88	--	95	--	98	--	100	--	--
16...	92	--	95	--	97	--	99	--	100
17...	99	--	100	--	--	--	--	--	--
18...	96	--	99	--	100	--	--	--	--
20...	--	98	--	99	--	100	--	--	--
22...	--	100	--	--	--	--	--	--	--
FEB.									
06...	91	--	98	--	100	--	--	--	--
12...	--	91	--	98	--	99	--	100	--
14...	87	--	99	--	100	--	--	--	--
16...	--	99	--	100	--	--	--	--	--
27...	--	92	--	97	--	100	--	--	--
MAR.									
03...	--	99	--	100	--	--	--	--	--
06...	--	88	--	97	--	100	--	--	--
07...	--	97	--	100	--	--	--	--	--

## SAN LORENZO CREEK BASIN

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.

LOCATION.--Lat 37°40'48", long 122°04'46", in San Lorenzo (Castro) Grant, Alameda County, at gaging station at Hayward, 700 ft upstream from mouth, and 700 ft downstream from small left-bank tributary.

DRAINAGE AREA.--5.51 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1972-73 (partial-record station).

Sediment records: Water years 1972-73 (partial-record station).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)
OCT.											
09...	1450	99	--	--	--	--	--	--	101	--	83
09...	2030	1.9	--	--	--	--	--	--	55	--	45
11...	0340	125	--	--	--	--	--	--	31	--	25
11...	0355	289	--	--	--	--	--	--	--	--	--
11...	0410	343	--	--	--	--	--	--	28	--	23
11...	1000	222	--	--	--	--	--	--	--	--	--
11...	1100	43	--	--	--	--	--	--	42	--	34
11...	1130	24	--	--	--	--	--	--	--	--	--
11...	1200	19	--	--	--	--	--	--	--	--	--
NOV.											
07...	0505	12	--	--	--	--	--	--	--	--	--
07...	0520	79	--	--	--	--	--	--	131	--	107
07...	0550	42	--	--	--	--	--	--	--	--	--
07...	0605	24	--	--	--	--	--	--	--	--	--
07...	0620	14	--	--	--	--	--	--	26	--	21
07...	0720	33	--	--	--	--	--	--	--	--	--
07...	0735	258	--	--	--	--	--	--	--	--	--
07...	1015	7.0	--	--	--	--	--	--	49	--	40
13...	1515	32	--	--	--	--	--	--	--	--	--
DEC.											
03...	1530	13	--	--	--	--	--	--	358	--	294
03...	1545	13	--	--	--	--	--	--	--	--	--
04...	0845	2.7	--	--	--	--	--	--	127	--	104
06...	0200	13	--	--	--	--	--	--	346	--	284
06...	0215	234	--	--	--	--	--	--	50	--	41
06...	1215	5.8	--	--	--	--	--	--	75	--	62
JAN.											
08...	0630	23	--	--	--	--	--	--	199	--	163
08...	1535	246	--	--	--	--	--	--	23	--	19
08...	1945	17	--	--	--	--	--	--	89	--	73
09...	0830	298	--	--	--	--	--	--	43	--	35
09...	1110	430	--	--	--	--	--	--	36	--	30
09...	1350	79	--	--	--	--	--	--	91	--	75
16...	0925	448	--	--	--	--	--	--	54	--	44
16...	0935	530	--	--	--	--	--	--	38	--	31
16...	1340	59	--	--	--	--	--	--	115	--	94
17...	2025	79	--	--	--	--	--	--	65	--	53
17...	2205	265	--	--	--	--	--	--	39	--	32
17...	2300	342	--	--	--	--	--	--	40	--	33
18...	0615	27	--	--	--	--	--	--	154	--	126
FEB.											
03...	1050	9.6	--	--	--	--	--	--	315	--	258
03...	1140	120	--	--	--	--	--	--	42	--	34
03...	1245	15	--	--	--	--	--	--	67	--	55
05...	2015	21	--	--	--	--	--	--	289	0	237
06...	0855	354	3.2	40	8.0	2.9	5.4	1.3	40	0	33
06...	1245	99	12	60	22	9.8	19	2.9	101	0	83
MAR.											
19...	1115	50	--	--	--	--	--	--	255	--	209
19...	1135	71	3.8	50	16	6.0	14	1.2	70	0	57
19...	1220	17	3.1	50	13	4.1	9.1	1.0	44	0	36

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- DAHL NITRO- GEN (N) (MG/L)
OCT.											
09...	--	--	--	--	2.1	--	1.2	2.8	.40	4.0	1.6
09...	--	--	--	--	1.2	--	.27	2.1	.73	2.4	1.0
11...	--	--	--	--	.96	--	.35	1.8	1.6	2.1	1.9
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	.34	--	.46	3.3	.84	3.8	1.3
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	1.7	--	.33	1.4	1.4	1.7	1.7
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	2.3	--	2.4	1.0	.70	3.4	3.1
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	.60	--	.80	.90	.60	1.7	1.4
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	1.3	--	.50	1.1	.80	1.6	1.3
13...	--	--	--	--	.57	--	.25	.85	.42	1.1	.67
DEC.											
03...	--	--	--	--	5.1	--	.33	1.4	.67	1.7	1.0
03...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	1.9	--	.12	1.1	.74	1.2	.86
06...	--	--	--	--	4.1	.36	.36	.94	.24	1.3	.60
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	1.6	.41	.41	.59	.59	1.0	1.0
JAN.											
08...	--	--	--	--	2.5	.74	.74	2.8	1.5	3.5	2.2
08...	--	--	--	--	.38	.23	.23	2.1	.58	2.3	.81
08...	--	--	--	--	3.3	.26	.26	2.0	1.4	2.3	1.7
09...	--	--	--	--	1.7	.26	.26	2.0	.41	2.3	.67
09...	--	--	--	--	1.3	.26	.26	1.0	.31	1.3	.57
09...	--	--	--	--	5.0	.41	.41	.00	.89	.19	1.3
16...	--	--	--	--	2.2	.25	.25	3.9	.64	4.1	.89
16...	--	--	--	--	1.3	.21	.21	2.9	.41	3.1	.62
16...	--	--	--	--	4.8	.27	.27	2.9	.83	3.2	1.1
17...	--	--	--	--	1.7	.22	.22	1.1	.36	1.3	.58
17...	--	--	--	--	.82	.23	.23	1.1	.17	1.3	.40
17...	--	--	--	--	.87	.21	.21	.99	.00	1.2	.09
18...	--	--	--	--	4.7	.21	.21	1.3	.79	1.5	1.0
FEB.											
03...	--	--	--	--	4.2	.11	.11	.72	.42	.83	.53
03...	--	--	--	--	1.0	.24	.24	1.8	.43	2.0	.67
03...	--	--	--	--	1.1	.19	.19	1.0	.33	1.2	.52
05...	--	--	--	--	3.5	.07	.07	1.0	.69	1.1	.76
06...	6.2	4.9	.2	--	.58	.41	.41	1.9	--	2.3	--
06...	23	16	.4	--	2.7	.44	.44	2.2	--	2.6	--
MAR.											
19...	--	--	--	4.2	4.3	.16	.38	2.0	1.4	2.2	1.8
19...	20	16	.1	1.1	1.0	.20	--	3.1	--	3.3	--
19...	14	10	.2	.74	.79	.34	--	1.5	--	1.8	--

## SAN LORENZO CREEK BASIN

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
OCT.										
09...	6.1	2.1	.40	--	--	--	--	--	--	--
09...	3.6	.45	.25	--	--	--	--	--	--	--
11...	3.1	1.0	.27	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	4.1	.84	.19	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	3.4	.63	.34	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
NOV.										
07...	--	--	--	--	--	--	--	--	--	--
07...	5.7	.46	.18	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	2.3	.26	.13	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	2.9	.31	.18	--	--	--	--	--	--	--
13...	1.7	.30	.13	--	--	--	--	--	--	--
DEC.										
03...	6.8	.84	.33	--	--	--	--	--	--	--
03...	--	--	--	704	--	.96	24.7	--	--	--
04...	3.1	.33	.16	300	--	.41	2.19	--	--	--
06...	5.4	.74	.31	776	--	1.06	27.2	--	--	--
06...	--	--	--	120	--	.16	75.8	--	--	--
06...	2.6	.36	.23	226	--	.31	3.54	--	--	--
JAN.										
08...	6.0	1.1	.47	460	--	.63	28.6	--	--	--
08...	2.7	.53	.12	34	--	.05	22.6	--	--	--
08...	5.6	.80	.44	208	--	.28	9.55	--	--	--
09...	4.0	.82	.34	104	--	.14	83.7	--	--	--
09...	2.6	.90	.21	90	--	.12	104	--	--	--
09...	5.2	.96	.50	232	--	.32	49.5	--	--	--
16...	6.3	1.1	.45	130	--	.18	157	--	--	--
16...	4.4	.88	.31	96	--	.13	137	--	--	--
16...	8.0	.90	.47	252	--	.34	40.1	--	--	--
17...	3.0	.35	.12	158	--	.21	33.7	--	--	--
17...	2.1	.48	.19	92	--	.13	65.8	--	--	--
17...	2.1	.58	.24	84	--	.11	77.6	--	--	--
18...	6.2	.64	.41	318	--	.43	23.2	--	--	--
FEB.										
03...	5.0	.28	.12	744	--	1.01	19.3	--	--	--
03...	3.0	.43	.06	108	--	.15	35.0	--	--	--
03...	2.3	.27	.08	142	--	.19	5.75	--	--	--
05...	4.6	.25	.11	586	--	.80	33.2	--	--	--
06...	2.9	.68	.18	--	55	.07	52.6	32	0	26
06...	5.3	.91	.41	--	168	.23	44.9	95	12	29
MAR.										
19...	6.4	.46	.18	477	--	.65	64.4	--	--	--
19...	4.4	.72	.11	--	117	.16	22.4	65	7	32
19...	2.5	.34	.11	--	80	.11	3.67	49	13	28

## SAN LORENZO CREEK BASIN

269

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT.										
09...	--	258	6.4	--	--	--	>62	--	--	--
09...	--	212	6.6	17.5	--	--	13	--	--	.0
11...	--	89	6.8	--	--	230	--	--	--	--
11...	--	--	--	--	--	--	>22	--	--	--
11...	--	71	6.7	--	--	130	--	--	--	--
11...	--	--	--	16.5	--	--	5.0	--	--	--
11...	--	179	7.0	16.5	--	44	--	--	--	--
11...	--	--	--	16.5	--	--	5.1	--	--	--
11...	--	--	7.3	17.0	--	--	--	--	--	--
NOV.										
07...	--	--	--	--	--	--	25	--	--	--
07...	--	498	7.1	--	--	100	--	17	--	--
07...	--	--	--	--	--	--	29	--	--	--
07...	--	--	--	--	--	--	>52	--	--	--
07...	--	104	7.0	--	--	47	--	4.2	--	--
07...	--	--	--	--	--	--	22	--	--	--
07...	--	--	--	--	--	--	26	--	--	--
07...	--	171	7.1	13.0	--	50	23	6.2	--	--
13...	--	117	6.9	--	--	60	19	--	--	--
DEC.										
03...	--	--	7.7	--	--	56	--	11	--	--
03...	--	964	--	--	--	--	44	--	--	--
04...	--	418	7.3	11.0	--	56	10	10	--	--
06...	--	1210	7.3	--	--	--	--	28	--	--
06...	--	166	6.8	--	--	--	--	13	--	--
06...	--	273	6.7	9.5	--	56	14	24	--	--
JAN.										
08...	--	724	7.0	--	--	150	41	32	--	--
08...	--	59	6.8	7.5	--	120	17	5.8	--	--
08...	--	300	7.3	8.0	--	55	14	7.1	--	--
09...	--	139	7.1	8.5	--	82	13	5.5	--	--
09...	--	118	7.1	10.0	--	150	13	4.6	--	--
09...	--	323	7.2	10.5	--	79	16	9.2	--	--
16...	--	168	7.1	11.5	--	110	>42	6.9	--	--
16...	--	111	7.1	11.5	--	110	24	4.8	--	--
16...	--	378	7.5	12.5	--	82	>36	5.8	--	--
17...	--	228	7.3	11.0	--	57	>39	5.2	--	--
17...	--	108	7.5	10.0	--	40	>35	2.0	--	--
17...	--	110	7.2	9.5	--	93	>44	4.0	--	--
18...	--	367	7.7	10.5	--	36	>41	4.9	--	--
FEB.										
03...	--	1090	8.0	9.5	--	23	57	5.0	--	--
03...	--	137	6.8	10.5	--	120	84	11	--	--
03...	--	220	7.2	10.5	--	51	90	6.8	--	--
05...	--	972	8.1	11.0	9.8	32	58	3.7	3300	--
06...	.4	95	7.4	10.0	10.4	68	58	2.5	22000	.0
06...	.8	276	7.7	11.5	10.0	67	58	3.2	18000	.0
MAR.										
19...	--	823	7.5	10.5	9.0	76	28	13	16000	.1
19...	.8	246	7.1	11.5	9.4	170	50	8.9	25000	.2
19...	.6	142	7.3	12.0	8.9	73	21	3.5	17000	.1

## SAN LORENZO CREEK BASIN

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DnD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
FER.										
06...	0810	.00	.9	.00	.02	.10	.10	.04	.00	.00
06...	0855	.00	.6	.00	.03	.12	.11	.07	.00	.00
06...	1245	.00	.2	.00	.01	.04	.07	.05	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
FER.									
06...	.00	.03	.04	.00	.00	.0	.26	.00	.01
06...	.00	.04	.05	.00	.00	.0	.05	.00	.00
06...	.00	.04	.00	.00	.00	.0	.36	.02	.02

## ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
FER.										
06...	0855	10	4	50	50	0	1000	4	.2	.2
06...	1245	10	6	120	50	0	500	1	.1	.1
MAR.										
19...	1135	4	1	170	<10	1	800	21	.5	.5
19...	1220	4	0	110	<10	1	400	17	.4	2.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT.					
09...	2030	17.5	1.9	82	.42
11...	1000	16.5	222	308	185
11...	1030	16.5	103	211	59
11...	1200	17.0	19	76	3.9
12...	1720	--	58	796	125
14...	0630	--	152	814	334
14...	0645	--	136	911	335
14...	0700	--	105	655	186
14...	0715	--	83	324	73
14...	0730	--	64	317	55
14...	0745	--	64	184	32
14...	0800	--	46	267	33
NOV.					
13...	1515	--	32	98	8.5
DEC.					
04...	0845	11.0	2.7	24	.17
06...	1215	9.5	5.8	64	1.0
JAN.					
08...	0630	--	23	387	24
08...	1535	7.5	246	626	416
08...	1945	8.0	17	105	4.8
09...	0830	8.5	298	619	498
09...	1110	10.0	430	1670	1940
09...	1350	10.5	79	356	76
16...	0925	11.5	448	1520	1840
16...	0935	11.5	530	2300	3290
16...	1340	12.5	59	543	86
17...	2025	11.0	79	195	42
17...	2205	10.0	265	473	338
17...	2300	9.5	342	714	659
18...	0615	10.5	27	102	7.4
FEB.					
03...	1050	9.5	9.6	40	1.0
03...	1140	10.5	120	374	121
03...	1245	10.5	15	155	6.3
05...	2015	11.0	21	84	4.8
06...	0855	10.0	354	1230	1180
06...	1245	11.5	99	494	132
MAR.					
19...	1115	10.5	50	624	84
19...	1135	11.5	71	400	77
19...	1220	12.0	17	139	6.4



## 11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT.											
11...	1000	16.5	222	308	185	--	--	--	--	--	71
12...	1720	--	58	796	125	17	25	34	43	49	57
14...	0630	--	152	814	334	17	26	33	42	52	65
14...	0745	--	64	184	32	--	--	--	--	--	--
DEC.											
06...	1215	9.5	5.8	64	1.0	--	--	--	--	--	--
FEB.											
05...	2015	11.0	21	84	4.8	--	--	--	--	--	--
06...	0855	10.0	354	1230	1180	19	26	31	36	39	54
06...	1245	11.5	99	494	132	35	44	56	66	77	85
MAR.											
19...	1135	11.5	71	400	77	49	59	70	82	92	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.											
11...	--	84	--	97	--	99	--	100	--	--	--
12...	--	58	--	69	--	100	--	--	--	--	--
14...	--	68	--	69	--	74	--	99	--	100	--
14...	76	--	77	--	79	--	83	--	90	--	100
DEC.											
06...	100	--	--	--	--	--	--	--	--	--	--
FEB.											
05...	89	--	96	--	98	--	100	--	--	--	--
06...	--	66	--	83	--	95	--	100	--	--	--
06...	--	92	--	100	--	--	--	--	--	--	--
MAR.											
19...	97	--	99	--	100	--	--	--	--	--	--

## BUENA VISTA LAKE BASIN

11185350 KERN RIVER NEAR QUAKING ASPEN CAMP, CALIF.

LOCATION.--Lat 36°08'04", long 118°25'49", in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.32, T.20 S., R.33 E., Tulare County, Sequoia National Forest, temperature recorder at gaging station on right bank, 0.4 mile upstream from Little Kern River, and 6.8 miles east of Quaking Aspen Camp.

DRAINAGE AREA.--530 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 17.5°C Aug. 16, 19; minimum, 0.5°C on several days during December and January.

Period of record:

Water temperatures: Maximum, 21.5°C July 14, 1972; minimum, freezing point on several days in 1966, 1971-72.

REMARKS.--Recorder vandalized May 20-30. Clock stopped July 30 to Aug. 9, Aug. 25 to Sept. 6, 12-18; range in temperature, 13.5°C to 17.0°C, 12.0°C to 16.0°C, and 10.5°C to 16.0°C, respectively.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	12.5	5.5	4.0	3.0	2.0	1.0	0.5	3.5	2.0	6.0	4.5
2	13.5	12.0	6.5	4.5	3.0	1.5	1.0	0.5	3.0	2.0	6.0	4.5
3	12.0	10.0	6.5	5.0	3.0	1.5	1.0	1.0	3.0	3.0	5.0	3.5
4	12.0	11.0	6.5	5.5	3.0	2.0	1.0	1.0	4.5	3.0	5.0	3.0
5	12.5	10.0	6.0	5.5	2.0	1.0	1.0	1.0	4.5	3.0	5.0	3.5
6	12.5	10.5	6.0	4.5	1.0	1.0	1.0	1.0	5.0	4.0	5.5	4.0
7	13.0	11.0	6.5	5.5	1.0	1.0	1.0	1.0	5.5	4.5	6.5	4.5
8	13.0	11.0	6.0	5.5	1.0	1.0	1.5	1.0	5.0	4.0	6.5	5.5
9	12.0	10.0	6.0	4.0	1.0	1.0	1.5	1.5	5.0	3.5	6.5	4.0
10	12.0	10.0	5.0	4.5	1.0	1.0	1.5	1.5	4.5	3.0	7.0	4.5
11	10.5	9.0	4.5	3.0	1.0	1.0	1.5	1.5	3.0	2.0	6.5	5.5
12	10.0	8.0	4.0	3.0	1.0	1.0	2.5	1.5	3.0	2.0	6.0	5.0
13	10.0	8.0	4.0	3.0	1.0	1.0	3.5	2.5	3.5	2.5	5.5	5.0
14	10.0	7.5	4.0	3.0	1.0	1.0	3.5	3.0	3.0	2.0	6.0	3.5
15	9.5	7.5	3.5	2.5	1.0	1.0	4.0	3.5	4.5	2.5	6.5	4.0
16	9.0	7.5	4.0	3.5	1.0	0.5	4.0	2.5	4.5	2.5	7.0	4.5
17	8.0	7.0	4.5	3.5	0.5	0.5	2.5	2.0	4.5	2.5	8.0	5.0
18	8.0	7.0	4.5	4.0	1.0	0.5	2.5	2.0	5.0	3.0	8.0	5.5
19	8.0	8.0	4.5	3.5	2.5	1.0	2.0	2.0	5.0	3.5	7.5	5.0
20	8.5	8.0	4.5	2.5	3.0	2.0	2.0	1.5	4.5	2.5	7.0	5.0
21	8.5	7.0	2.5	1.5	3.0	2.0	1.5	1.5	4.5	3.5	5.5	3.5
22	9.0	6.0	3.0	2.5	3.0	2.0	1.5	1.5	5.5	3.5	7.0	3.0
23	9.0	7.5	3.0	1.5	3.0	2.0	1.5	1.5	5.5	4.5	7.0	4.5
24	9.0	7.5	2.5	1.0	2.5	2.0	1.5	1.5	5.5	5.0	8.0	4.5
25	8.5	6.5	3.0	1.5	2.5	1.0	2.5	1.5	5.0	3.0	8.0	5.5
26	8.0	6.5	3.5	2.5	2.0	1.0	2.5	2.0	4.5	3.0	7.5	6.0
27	8.5	7.0	3.5	2.5	2.0	1.5	2.5	2.0	5.5	4.5	7.5	5.5
28	8.5	7.5	3.5	2.5	2.0	1.5	3.0	2.0	5.5	4.5	6.5	4.5
29	7.5	6.5	3.5	2.5	1.5	0.5	3.0	2.0	---	---	6.0	3.0
30	6.5	4.0	3.5	2.0	1.0	1.0	4.0	3.0	---	---	7.0	4.0
31	5.0	3.0	---	---	1.0	1.0	4.0	3.0	---	---	9.0	5.5
MONTH	14.0	3.0	6.5	1.0	3.0	0.5	4.0	0.5	5.5	2.0	9.0	3.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	6.0	9.0	7.0	9.5	8.0	13.5	12.0	---	---	---	---
2	8.0	5.0	9.5	7.5	10.5	8.5	12.5	11.5	---	---	---	---
3	8.5	5.0	9.5	8.0	11.0	8.5	13.0	11.5	---	---	---	---
4	9.5	5.5	9.5	8.0	11.0	9.0	13.5	11.5	---	---	---	---
5	10.0	6.0	9.0	7.0	11.0	9.0	14.0	13.0	---	---	---	---
6	10.5	7.0	9.5	7.0	11.0	9.0	14.0	13.5	---	---	---	---
7	10.5	7.5	10.0	8.0	11.5	9.0	14.5	13.5	---	---	16.0	12.5
8	10.0	7.5	10.5	8.5	11.5	9.0	14.5	13.5	---	---	16.0	12.5
9	8.5	7.5	10.5	8.5	11.5	9.0	14.5	13.5	---	---	15.5	12.0
10	9.0	7.5	10.0	8.0	11.0	9.0	15.0	14.0	16.0	14.0	15.5	12.5
11	10.0	7.0	10.0	7.5	11.0	9.0	15.5	14.5	15.5	13.5	15.5	12.5
12	9.0	7.0	10.0	7.5	11.0	9.0	15.5	14.5	16.0	13.5	---	---
13	9.0	7.0	9.0	8.0	11.0	9.0	15.5	14.0	15.0	14.5	---	---
14	8.0	7.0	9.0	8.5	11.0	9.0	16.0	14.5	16.5	14.0	---	---
15	8.0	7.0	9.5	8.0	10.0	9.0	16.0	15.0	17.0	14.5	---	---
16	9.5	7.0	10.0	8.0	11.0	9.0	16.5	15.0	17.5	14.5	---	---
17	9.5	7.5	10.0	8.0	11.0	9.5	16.5	15.5	17.0	15.5	---	---
18	9.0	6.5	10.0	8.0	12.0	10.0	16.5	15.0	17.0	14.5	---	---
19	7.5	6.0	10.0	8.0	12.0	10.5	16.5	14.5	17.5	15.0	14.0	11.0
20	8.0	6.0	---	---	12.0	10.5	16.5	14.5	16.5	14.5	14.0	11.5
21	9.0	6.0	---	---	12.0	10.5	16.0	14.0	16.5	13.5	14.0	11.0
22	10.0	7.0	---	---	12.5	11.0	15.5	14.0	15.5	13.5	14.0	11.0
23	11.0	8.0	---	---	12.5	10.5	16.5	14.5	15.0	12.5	13.0	10.5
24	10.5	8.0	---	---	12.5	11.0	16.5	14.5	14.0	11.5	13.0	10.5
25	10.0	8.0	---	---	13.0	11.5	16.5	14.0	---	---	12.5	9.5
26	10.0	7.5	---	---	13.5	12.0	17.0	15.0	---	---	12.0	9.0
27	10.0	7.5	---	---	13.5	12.5	17.0	15.0	---	---	12.5	9.0
28	9.5	7.0	---	---	13.5	12.0	17.0	14.5	---	---	13.0	10.0
29	9.0	6.5	---	---	13.5	12.5	16.0	14.5	---	---	13.0	10.0
30	8.5	7.0	---	---	13.5	12.5	---	---	---	---	13.0	10.0
31	---	---	8.5	8.0	---	---	---	---	---	---	---	---
MONTH	11.0	5.0	---	---	13.5	8.0	17.0	11.5	---	---	---	---

## BUENA VISTA LAKE BASIN

273

11187000 KERN RIVER AT KERNVILLE, CALIF.

LOCATION.--Lat 35°45'34", long 118°25'12", in NE¼NW¼ sec.15, T.25 S., R.33 E., Kern County, temperature recorder at gaging station on left bank, 0.5 mile upstream from highway bridge at Kernville, 1.7 miles upstream from Caldwell Creek, 9.5 miles upstream from Isabella Dam, and 42 miles northeast of Bakersfield.

DRAINAGE AREA.--1,009 sq mi.

PERIOD OF RECORD.--Water temperatures: June 1962 to September 1973.

Sediment records: Water years 1967-73 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum recorded, 19.5°C Oct. 1, July 16-18, Aug. 16-17; minimum, 1.0°C Jan. 1, 6, 7.

Period of record:

Water temperatures: Maximum (1962-63, 1964-73), 28.5°C (recorded), Aug. 20, 1972; minimum, 0.5°C Dec. 24, 25, 1970.

REMARKS.--Clock stopped Dec. 10-19; range in temperature, 1.0°C to 5.0°C.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	16.0	12.0	8.0	6.0	5.0	2.5	1.0	4.5	3.5	6.5	5.5
2	18.0	15.5	11.5	8.0	5.5	4.5	2.5	1.5	4.0	3.0	6.5	5.5
3	15.5	14.5	11.5	8.0	5.5	4.5	2.5	1.5	3.5	3.0	6.5	5.5
4	16.0	14.5	9.5	8.0	5.5	4.0	2.5	1.5	5.0	3.5	6.0	5.5
5	16.5	14.5	9.0	7.5	5.5	4.5	3.0	1.5	4.5	4.0	6.0	5.0
6	16.0	14.5	10.5	8.0	4.5	3.5	3.0	1.0	5.0	4.5	6.0	5.0
7	17.5	14.5	10.0	8.5	3.5	3.0	3.0	1.0	5.5	5.0	6.5	5.0
8	16.5	14.5	9.5	8.0	3.5	3.0	2.0	1.5	5.5	4.5	6.5	6.0
9	17.0	14.0	10.0	8.0	4.0	3.0	2.0	1.5	5.5	4.5	6.5	5.5
10	16.0	13.0	10.0	7.5	---	---	3.0	2.0	5.5	4.5	7.0	5.5
11	16.0	12.5	7.5	6.5	---	---	3.0	2.0	4.5	4.0	7.0	5.5
12	15.5	12.5	7.0	6.0	---	---	3.5	2.5	4.5	3.5	5.5	5.0
13	16.0	12.5	6.0	5.5	---	---	3.5	3.0	5.5	4.0	5.0	4.5
14	16.0	12.0	5.5	5.0	---	---	3.5	3.0	5.0	4.5	5.5	4.0
15	16.0	11.5	5.5	5.0	---	---	4.0	3.0	5.0	4.5	6.0	4.5
16	14.0	11.5	5.5	5.0	---	---	4.0	3.5	5.5	4.5	6.5	5.0
17	14.0	11.5	5.5	5.0	---	---	4.0	3.0	5.5	4.5	6.5	5.5
18	14.0	10.5	5.5	5.0	---	---	3.5	3.0	6.0	5.0	6.5	5.5
19	12.0	11.5	6.0	5.0	---	---	3.0	2.5	6.0	5.0	6.5	5.5
20	11.5	10.5	5.5	5.0	4.0	3.0	2.5	1.5	5.5	5.0	6.5	5.0
21	11.5	10.0	5.5	4.5	4.0	3.5	3.0	2.0	5.5	5.0	5.0	4.0
22	12.0	10.5	6.0	5.0	4.5	4.0	3.0	2.0	6.0	4.5	5.0	3.5
23	12.0	11.0	6.0	5.0	4.5	3.5	2.5	2.0	6.0	5.0	6.0	4.0
24	12.5	11.0	5.5	4.5	4.0	3.5	4.0	2.0	7.0	6.0	7.0	5.0
25	12.0	10.5	5.5	4.5	4.0	3.0	4.0	3.0	6.5	5.0	7.0	6.0
26	13.0	10.0	6.0	5.0	3.5	3.0	3.5	3.0	5.5	5.0	7.0	6.0
27	11.5	10.5	6.0	5.0	3.5	3.0	3.0	2.5	6.5	5.5	6.5	5.5
28	12.0	10.5	6.0	5.0	3.5	3.0	3.0	2.5	6.5	6.0	6.0	5.0
29	11.5	9.0	6.0	5.0	3.0	2.0	3.0	2.5	---	---	5.5	4.0
30	11.5	8.0	6.0	5.0	2.5	1.5	4.0	3.0	---	---	6.0	4.5
31	12.0	7.0	---	---	2.5	1.5	5.0	3.5	---	---	7.5	5.5
MONTH	19.5	7.0	12.0	4.5	---	---	5.0	1.0	7.0	3.0	7.5	3.5

## BUENA VISTA LAKE BASIN

11187000 KERN RIVER AT KERNVILLE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	6.0	9.5	8.5	11.0	10.5	16.0	15.0	17.5	17.0	18.0	17.0
2	7.0	5.0	10.0	9.0	11.5	11.0	16.0	14.5	17.5	17.5	18.0	17.0
3	7.5	5.5	10.5	9.5	11.5	11.5	16.5	15.0	17.5	16.5	18.0	17.0
4	8.0	6.5	10.5	9.5	11.5	11.5	16.5	15.5	17.0	16.5	18.0	16.5
5	8.0	6.5	10.0	8.5	11.5	11.5	17.5	16.0	17.0	17.0	17.5	17.0
6	8.5	7.0	10.0	8.5	12.0	11.5	18.0	17.0	17.5	16.5	18.0	17.0
7	9.0	8.0	10.5	9.5	12.5	12.0	17.5	16.5	18.5	17.0	18.0	17.0
8	9.0	7.5	11.0	10.0	12.5	12.5	17.5	16.5	18.0	17.5	17.5	17.0
9	8.5	7.5	11.0	10.0	12.5	12.5	18.0	16.5	18.0	17.5	17.0	16.5
10	8.0	7.0	11.0	10.5	12.5	12.5	19.0	17.5	18.5	17.5	17.0	16.0
11	8.5	7.0	11.0	10.0	12.5	12.5	19.0	18.0	18.0	17.5	17.5	16.5
12	8.5	7.0	10.5	10.0	12.5	12.0	19.0	18.0	18.5	17.5	17.5	16.5
13	8.5	7.5	10.0	9.5	12.5	12.0	18.5	17.0	18.5	18.0	17.5	17.0
14	8.0	7.5	10.0	9.5	12.5	12.0	18.5	17.0	19.0	18.0	17.5	17.0
15	8.0	7.0	10.0	9.5	12.5	11.5	19.0	17.0	19.0	18.5	17.5	16.5
16	9.0	7.0	10.0	9.5	13.0	12.0	19.5	18.0	19.5	19.0	17.0	16.5
17	9.0	8.0	10.5	10.0	13.5	12.5	19.5	18.5	19.5	19.0	17.0	16.0
18	9.0	7.5	10.5	10.0	13.5	13.0	19.5	19.0	19.0	18.5	16.5	15.5
19	8.0	7.5	10.5	10.0	14.0	13.5	19.0	18.5	19.0	18.5	17.0	16.0
20	8.5	7.0	10.5	10.0	14.0	13.5	17.5	16.5	19.0	18.0	17.0	16.5
21	8.5	7.0	10.5	9.5	14.0	13.5	17.0	16.0	18.5	17.5	17.0	16.5
22	10.0	8.0	10.0	9.5	14.0	13.5	17.0	16.0	19.0	18.0	17.0	16.0
23	10.5	9.0	10.5	9.5	14.0	14.0	17.0	16.0	18.5	17.0	16.5	15.5
24	10.5	9.5	10.5	10.5	15.0	14.0	17.0	16.5	18.0	16.5	16.0	15.0
25	10.5	9.5	11.0	10.5	15.0	14.5	17.0	16.5	17.5	16.5	16.5	15.0
26	10.5	9.0	11.0	10.0	15.5	15.0	18.0	17.0	17.5	17.0	16.0	15.0
27	10.5	9.5	11.0	10.0	16.0	15.5	18.0	17.5	17.5	16.5	16.0	14.5
28	10.5	9.5	11.5	11.0	16.0	15.5	18.0	17.0	17.5	16.5	16.5	15.0
29	10.0	9.0	11.5	11.5	16.0	15.5	18.0	17.5	18.0	17.0	16.5	15.0
30	10.0	9.0	11.5	10.5	16.0	15.5	18.0	17.0	18.0	17.0	16.0	15.0
31	---	---	11.0	10.5	---	---	17.5	17.0	18.5	17.5	---	---
MONTH	10.5	5.0	11.5	8.5	16.0	10.5	19.5	14.5	19.5	16.5	18.0	14.5

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT CHARGE (T/DAY)	SUS- SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SEC. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
JAN.											
FEB.											
MAR.											
APR.											
MAY											
JUNE											
JULY											
AUG.											
SEP.											
24...	1315	2.0	380	5	5.1	--	--	--	--	--	--
23...	1340	5.5	415	6	6.7	--	--	--	--	--	--
25...	1045	4.0	627	7	12	--	--	--	--	--	--
26...	1230	10.0	2380	38	244	53	64	79	93	100	--
23...	1130	10.0	4430	106	1270	6	12	26	57	94	100
28...	1145	15.5	3240	69	604	--	--	--	--	--	--
19...	1430	18.5	1010	4	11	--	--	--	--	--	--
23...	0750	17.0	390	1	1.1	--	--	--	--	--	--
24...	1650	16.0	235	1	.63	--	--	--	--	--	--

## BUENA VISTA LAKE BASIN

275

11187500 BOREL CANAL BELOW ISABELLA DAM, CALIF.

LOCATION.--Lat 35°38'32", long 118°28'09", in SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.30, T.26 S., R.33 E., Kern County, temperature recorder at gaging station on right bank, 500 ft downstream from Isabella Dam, and 3 miles upstream from point where canal crosses Erskine Creek.

PERIOD OF RECORD.--Water temperatures: October 1958 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 23.0°C on several days during August.

Period of record:

Water temperatures: Maximum, 26.5°C July 31, Aug. 1, 1959; minimum (1958-72), 0.5°C Jan. 17, 18, 1960.

REMARKS.--No flow Oct. 1 to Apr. 2, Apr. 10-14, May 18, 19.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	15.0	13.0	17.0	14.5	20.0	18.5	22.5	21.5	21.0	21.0
2	---	---	16.5	13.5	16.5	14.5	20.0	18.5	22.5	21.5	22.0	20.5
3	11.5	9.5	15.5	14.0	15.5	15.0	20.5	18.0	23.0	22.5	22.0	21.5
4	11.5	10.0	14.0	13.5	16.5	15.5	20.5	18.0	23.0	22.5	21.5	21.0
5	14.0	11.0	14.0	13.5	17.5	16.5	20.5	18.0	22.5	22.0	21.0	21.0
6	13.0	11.0	14.0	13.5	17.5	17.0	19.5	17.5	22.5	21.5	21.0	20.5
7	12.0	11.0	14.0	13.5	17.0	16.5	20.0	18.5	22.0	21.5	21.0	20.5
8	13.5	11.0	14.5	13.5	17.5	16.5	20.5	19.0	22.0	21.5	21.0	20.5
9	13.0	12.0	15.5	13.5	17.5	16.5	21.0	19.0	22.0	21.0	21.5	20.5
10	---	---	16.0	14.5	16.5	16.0	21.0	20.0	22.5	21.0	21.5	21.0
11	---	---	16.5	14.5	17.5	16.5	21.0	20.0	22.5	21.5	21.0	21.0
12	---	---	17.0	16.0	18.0	16.5	21.0	20.0	22.5	22.0	21.0	20.5
13	---	---	18.0	15.5	17.5	16.0	21.0	20.5	22.5	22.5	21.0	20.5
14	---	---	18.0	18.0	16.0	15.5	21.5	20.5	22.5	22.5	21.0	20.5
15	12.5	11.0	18.5	18.0	15.5	15.5	21.5	20.0	22.5	22.0	20.5	20.5
16	12.5	12.0	19.0	18.0	16.0	15.5	21.5	20.0	22.5	22.0	21.0	20.5
17	12.5	12.0	19.0	16.5	16.0	16.0	21.5	20.0	23.0	20.5	21.0	20.5
18	12.0	12.0	---	---	17.0	16.0	22.0	20.5	23.0	22.5	21.0	20.5
19	12.0	12.0	---	---	18.0	17.0	22.0	20.0	23.0	22.5	20.5	20.5
20	12.0	12.0	15.5	14.5	18.0	18.0	20.0	19.5	23.0	23.0	20.5	20.5
21	13.0	12.0	16.5	14.5	18.0	18.0	20.5	19.0	23.0	22.5	20.5	20.5
22	14.0	12.5	17.5	15.0	18.0	18.0	20.0	19.5	22.5	22.0	20.5	20.5
23	13.0	12.5	17.0	15.0	19.0	18.0	21.0	20.0	22.0	21.5	20.5	20.5
24	13.5	12.5	15.0	14.5	18.0	17.5	21.0	20.0	21.5	21.5	20.5	20.0
25	16.0	12.5	15.0	14.5	19.0	17.5	21.5	20.5	21.5	21.0	20.5	20.0
26	16.0	14.0	15.0	15.0	19.5	18.0	21.5	20.0	21.5	21.5	20.5	19.5
27	16.5	14.5	16.0	15.0	19.0	18.0	21.5	21.5	21.5	21.0	20.5	20.0
28	14.5	13.5	17.5	15.5	20.0	18.5	21.5	21.5	21.0	21.0	20.5	19.5
29	13.5	13.0	17.5	17.0	19.0	18.0	21.5	21.5	22.0	21.0	20.0	19.5
30	13.0	13.0	18.0	16.5	19.0	18.0	21.5	21.0	21.5	21.0	20.0	19.5
31	---	---	18.0	16.5	---	---	22.5	21.0	21.0	21.0	---	---
MONTH	---	---	19.0	13.0	20.0	14.5	22.5	17.5	23.0	20.5	22.0	19.5

## BUENA VISTA LAKE BASIN

11191000 KERN RIVER BELOW ISABELLA DAM, CALIF.

LOCATION.--Lat 35°38'21", long 118°29'02", in SW¼ sec.30, T.26 S., R.33 E., Kern County, temperature recorder at gaging station on right bank 200 ft downstream from highway bridge, 0.6 mile downstream from Isabella Dam, and 1.6 miles southwest of town of Lake Isabella.

DRAINAGE AREA.--2,074 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1963, water years 1964-66 (partial-record station).  
Water temperatures: November 1970 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 22.0°C Sept. 22, 23, 25; minimum, 4.0°C Feb. 1.

Period of record:

Water temperatures: Maximum, 24.5°C Sept. 3, 1971; minimum, 4.0°C Jan. 4, 1972, Feb. 1, 1973.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	17.5	14.0	12.5	9.5	8.5	6.0	5.0	6.0	4.0	9.0	8.5
2	18.5	17.5	14.0	13.0	9.5	8.5	6.0	5.0	5.5	5.5	9.0	8.5
3	19.0	17.5	13.5	12.5	9.5	8.5	6.0	5.0	5.5	5.5	9.5	8.5
4	18.5	17.5	13.0	12.5	9.0	8.5	5.0	5.0	6.5	5.5	9.0	9.0
5	18.5	17.5	13.0	12.0	8.5	8.5	5.0	4.5	6.0	5.5	9.5	9.0
6	20.0	17.5	13.0	12.0	8.5	8.0	5.0	4.5	6.5	6.0	9.5	9.0
7	18.5	17.5	13.0	12.0	8.0	7.5	5.0	4.5	6.5	6.0	9.5	9.0
8	18.5	17.5	12.5	12.0	7.5	7.5	4.5	4.5	6.5	6.0	9.0	9.0
9	18.0	17.5	13.0	12.0	7.5	7.0	5.0	4.5	7.0	6.0	9.0	9.0
10	18.0	17.0	12.5	12.0	7.0	6.5	5.0	4.5	7.0	6.0	9.5	9.0
11	18.0	17.0	12.0	11.5	7.0	6.5	5.0	4.5	7.0	6.0	9.0	9.0
12	18.0	17.0	12.5	11.5	6.5	6.0	5.0	4.5	7.0	6.5	9.5	9.0
13	18.0	17.0	11.5	11.0	6.0	6.0	5.0	4.5	7.0	6.5	9.0	9.0
14	18.0	17.0	11.5	11.0	6.0	6.0	6.0	5.0	7.0	6.5	9.0	9.0
15	18.0	16.5	11.5	11.0	6.0	5.5	6.5	5.0	7.0	6.5	9.5	9.0
16	17.5	16.5	11.0	10.5	6.5	5.5	5.5	5.0	7.5	6.5	9.5	9.0
17	17.0	16.5	11.0	10.5	6.0	5.5	5.5	5.0	7.5	7.0	9.0	9.0
18	17.0	16.5	11.0	10.0	6.0	5.0	6.0	5.0	7.5	7.0	9.0	9.0
19	17.0	16.0	10.0	10.0	5.5	4.5	6.0	5.0	8.5	8.0	9.5	9.0
20	17.0	15.5	10.5	10.0	5.0	4.5	6.5	4.5	8.5	8.0	9.5	9.0
21	17.0	15.0	10.0	10.0	6.0	5.0	6.0	4.5	8.5	8.0	9.5	9.0
22	16.0	14.5	10.0	10.0	5.0	5.0	5.5	5.0	8.5	8.5	9.5	9.0
23	16.0	15.0	10.0	9.5	6.0	5.0	6.0	5.0	9.0	8.0	9.5	9.0
24	16.0	14.5	10.0	9.5	6.0	5.0	6.0	5.0	9.0	8.5	9.5	9.5
25	16.0	14.5	9.5	9.5	6.0	5.0	5.5	5.0	9.0	8.5	10.0	9.0
26	15.5	14.5	10.0	9.0	6.5	5.5	5.5	5.0	8.5	8.5	9.0	9.0
27	15.5	14.5	10.0	9.0	6.5	5.5	5.5	5.0	9.0	8.5	9.5	9.0
28	15.5	14.5	9.5	9.0	5.5	5.5	5.5	5.0	8.5	8.0	9.5	9.0
29	15.0	14.5	10.0	9.0	6.5	5.0	5.5	5.0	---	---	9.5	9.0
30	15.0	14.0	9.5	9.0	6.0	5.0	6.0	5.0	---	---	9.5	9.0
31	14.5	13.5	---	---	6.0	5.0	6.0	5.0	---	---	10.0	9.0
MONTH	20.0	13.5	14.0	9.0	9.5	4.5	6.5	4.5	9.0	4.0	10.0	8.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.5	13.0	12.5	18.0	13.0	17.0	16.5	20.0	19.0	20.5	20.5
2	9.5	9.5	13.5	13.0	15.0	14.0	17.0	16.0	20.0	19.0	21.0	20.5
3	10.0	9.5	13.0	12.5	15.0	14.5	16.5	16.5	19.5	19.0	21.0	20.5
4	10.5	10.0	12.5	12.0	15.0	14.5	17.0	16.5	19.5	19.0	20.5	20.5
5	10.0	10.0	12.5	12.0	15.0	14.5	17.5	16.5	19.5	19.0	20.5	20.5
6	10.5	10.0	13.0	12.5	15.0	14.5	17.5	16.5	20.0	19.0	21.0	20.5
7	10.5	10.0	13.0	12.5	15.0	14.5	17.5	16.5	20.0	19.0	21.0	20.5
8	11.5	10.5	13.0	12.5	15.5	14.5	17.5	16.5	20.5	19.5	21.0	20.5
9	11.5	11.0	13.5	13.0	15.5	14.5	18.0	16.5	20.5	19.5	21.0	20.5
10	12.0	11.0	13.5	13.0	15.5	14.5	17.5	16.0	20.5	19.5	21.0	20.5
11	12.0	11.5	14.0	13.0	15.5	15.0	18.0	17.0	20.5	20.0	21.0	20.5
12	12.0	11.5	14.0	13.5	15.5	14.5	17.5	17.0	20.5	20.0	21.0	20.5
13	11.5	11.0	14.5	13.5	15.5	14.5	18.0	17.0	20.5	20.0	21.0	20.5
14	11.5	11.0	14.0	13.5	15.0	15.0	18.0	17.0	20.5	20.0	21.0	20.5
15	11.5	11.5	13.5	13.0	15.5	15.0	18.0	17.0	21.0	20.5	20.5	20.5
16	12.0	11.5	13.5	13.5	15.5	15.0	18.0	17.0	21.0	20.0	21.0	20.5
17	12.0	11.5	13.5	13.0	15.5	15.0	18.5	17.0	21.0	19.0	20.5	20.5
18	12.0	11.5	14.0	13.5	16.0	15.5	18.5	17.0	21.0	20.5	20.5	20.5
19	12.0	11.5	13.5	13.0	16.5	16.0	18.5	17.5	21.0	20.5	20.5	20.0
20	12.0	11.5	14.0	13.0	16.5	16.0	18.0	16.5	21.0	20.5	20.5	20.0
21	12.0	11.5	14.0	13.5	16.5	16.0	18.5	17.5	21.0	20.5	20.5	19.0
22	12.0	11.5	14.0	13.5	16.0	16.0	19.0	17.5	21.0	20.5	22.0	18.5
23	12.0	11.5	14.0	13.5	16.5	16.0	19.0	17.5	21.0	20.5	22.0	19.0
24	12.0	11.5	14.0	13.5	16.5	16.0	19.0	17.5	21.0	21.0	21.5	18.0
25	13.0	12.0	14.0	13.5	17.0	16.0	19.5	18.0	21.0	21.0	22.0	18.5
26	12.5	12.0	14.0	13.5	17.0	16.0	19.5	18.0	21.0	20.5	19.5	18.5
27	13.0	12.0	15.0	14.0	16.5	16.0	19.0	18.5	21.0	20.5	19.5	18.5
28	12.5	12.0	15.0	14.0	17.0	16.0	19.0	18.5	21.0	20.5	19.0	18.5
29	12.5	12.0	14.5	14.0	16.5	16.0	19.5	18.5	21.0	20.5	19.0	18.5
30	12.5	12.5	14.5	14.0	17.0	16.5	20.0	18.5	21.0	20.5	19.0	18.5
31	---	---	14.5	14.0	---	---	20.0	18.5	20.5	20.0	---	---
MONTH	13.0	9.5	15.0	12.0	18.0	13.0	20.0	16.0	21.0	19.0	22.0	18.0

## TULARE LAKE BASIN

277

11203200 TULE RIVER NEAR SPRINGVILLE, CALIF.

LOCATION.--Lat 36°08'02", long 118°52'07", in NE¼SW¼ sec.17, T.21 S., R.29 E., Tulare County, temperature recorder at gaging station 10 ft downstream from highway bridge, 3.5 miles southwest of Springville, and 4.1 miles upstream from Success Dam.

DRAINAGE AREA.--247 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1963 to July 1966.

Water temperatures: October 1965 to September 1967, October 1968 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 28.0°C Aug. 15; minimum, 4.0°C Jan. 1, 2.

Period of record:

Water temperatures: Maximum, 35.5°C July 1, 1972; minimum (1966-67, 1969-73), 2.5°C Jan. 5-8, 1971.

REMARKS.--Prior to Mar. 20, 1968, gage was located 1.9 miles upstream. Recorder malfunction Nov. 7-14.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.5	20.0	15.5	11.5	9.5	8.5	6.0	4.0	9.5	7.5	10.0	9.5
2	24.5	21.0	15.0	11.0	9.0	8.0	6.5	4.0	8.5	7.5	10.0	7.5
3	23.5	19.5	15.0	11.0	8.5	7.5	6.5	5.5	8.5	8.0	10.5	8.5
4	22.5	18.5	14.0	12.0	9.0	8.0	6.5	5.5	10.0	8.5	10.0	8.5
5	24.0	18.5	15.5	12.5	8.0	7.0	6.5	5.0	9.5	8.5	10.0	8.0
6	25.0	19.0	15.5	12.0	7.5	6.5	6.0	4.5	10.0	9.0	9.5	8.5
7	25.0	20.0	---	---	9.0	7.5	6.5	4.5	10.5	9.5	9.5	9.0
8	23.5	19.5	---	---	8.0	6.5	6.5	5.0	11.0	9.0	9.5	9.0
9	22.5	19.5	---	---	7.0	6.0	7.0	6.0	10.5	9.0	11.0	9.0
10	22.0	18.0	---	---	6.5	5.5	7.5	6.5	10.5	9.5	11.0	9.5
11	21.0	17.5	---	---	6.5	5.0	8.0	6.5	9.5	8.5	10.5	8.5
12	21.5	17.0	---	---	6.0	4.5	9.5	7.5	9.5	8.5	10.0	8.5
13	22.5	16.5	---	---	5.0	4.5	9.5	8.0	9.5	8.5	9.0	8.0
14	21.5	16.5	---	---	5.5	4.5	9.0	8.0	9.0	8.5	10.0	7.5
15	22.0	17.0	12.0	11.0	6.0	5.0	9.5	8.0	8.5	8.0	10.5	8.0
16	20.0	17.0	11.5	11.0	7.0	5.0	9.0	8.0	9.5	8.0	11.0	8.5
17	20.0	15.5	11.5	11.0	8.0	6.5	8.5	8.0	10.0	8.0	10.0	9.0
18	20.0	15.5	12.0	10.5	8.5	7.0	9.0	8.0	10.5	9.0	10.0	8.5
19	19.0	17.0	11.5	11.0	9.0	7.5	8.0	7.0	10.5	8.5	10.5	8.0
20	17.5	15.5	11.5	10.5	9.5	9.0	7.5	6.5	10.0	8.5	10.5	8.5
21	18.5	14.0	11.5	10.0	9.5	9.0	7.0	7.0	10.0	9.0	9.0	8.0
22	19.5	14.5	12.0	11.0	9.5	8.5	8.0	7.0	10.5	8.5	8.5	8.0
23	19.5	15.5	11.5	10.5	10.0	8.5	8.0	6.5	10.5	8.5	10.5	7.5
24	19.5	15.5	11.0	9.5	9.5	8.0	8.0	6.5	11.0	10.0	11.5	8.5
25	19.5	15.0	10.0	9.0	9.0	7.5	7.5	7.0	11.0	9.0	11.0	9.0
26	18.5	14.5	9.5	9.5	8.0	6.5	8.0	7.5	10.5	9.5	10.5	9.0
27	17.5	15.0	9.5	9.0	8.0	6.0	8.0	6.5	11.0	10.0	9.0	9.0
28	18.0	14.5	9.5	9.0	7.5	6.0	8.5	7.0	11.0	10.0	9.0	8.0
29	16.5	14.0	10.0	9.0	7.0	5.0	8.5	7.0	---	---	9.5	7.0
30	15.0	11.5	9.5	9.0	6.5	4.5	9.0	8.0	---	---	9.5	8.0
31	14.5	10.5	---	---	6.0	4.5	9.5	8.0	---	---	9.5	8.5
MONTH	25.0	10.5	---	---	10.0	4.5	9.5	4.0	11.0	7.5	11.5	7.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	9.0	13.0	10.5	14.0	13.0	22.0	19.0	26.0	24.0	24.5	21.5
2	10.5	9.5	14.0	11.0	15.5	13.5	22.0	19.0	27.0	23.5	25.0	21.5
3	11.5	8.5	14.0	11.5	16.5	14.0	22.5	19.0	25.5	24.5	25.0	22.0
4	12.0	9.0	14.0	11.5	16.5	14.0	23.0	19.5	26.5	23.0	25.5	21.5
5	12.5	9.5	13.0	11.0	17.0	14.5	23.0	20.0	25.5	24.0	25.0	21.5
6	13.0	10.5	14.0	10.5	17.5	15.0	23.0	20.0	26.0	23.0	24.5	21.5
7	13.5	11.0	14.5	11.5	18.0	15.5	23.0	20.0	26.5	23.5	25.0	21.0
8	13.0	11.0	14.5	12.0	18.5	16.0	23.0	19.5	26.5	23.5	24.5	22.0
9	12.0	10.5	14.5	12.0	18.5	16.0	23.5	20.0	26.0	23.0	24.5	21.0
10	12.5	11.0	14.5	12.5	17.5	16.0	24.0	21.0	26.5	23.0	24.5	21.0
11	13.5	11.0	14.5	12.0	17.5	15.0	24.5	21.5	26.5	23.0	24.5	21.0
12	13.0	11.0	14.5	12.0	17.5	15.0	24.5	21.5	27.0	23.5	25.0	21.5
13	12.5	11.0	14.0	12.5	18.0	15.5	24.5	21.5	26.5	24.0	25.0	22.0
14	11.0	10.0	13.5	12.5	16.5	14.5	24.5	21.5	27.5	23.5	24.5	22.0
15	11.0	10.0	14.0	12.0	16.0	13.5	24.5	21.5	28.0	24.5	23.5	21.0
16	12.5	10.0	15.0	12.0	17.0	14.0	25.0	21.5	27.5	24.5	23.5	20.5
17	12.0	11.0	15.5	12.5	17.0	14.5	25.0	22.5	27.5	24.0	23.0	20.0
18	11.5	10.0	15.5	13.0	17.5	14.5	25.5	22.5	27.0	23.5	23.0	20.0
19	11.0	9.5	15.0	13.0	18.5	15.5	25.5	22.5	27.0	23.5	23.0	20.0
20	12.0	9.0	14.5	12.5	19.0	16.0	24.5	22.0	24.5	23.0	23.0	20.0
21	12.5	9.5	14.0	12.0	20.0	16.5	24.0	21.5	26.0	22.5	23.0	20.0
22	14.0	11.0	14.5	12.5	20.0	17.0	24.5	21.5	25.5	22.5	22.5	20.0
23	14.0	11.5	15.0	12.5	19.5	17.0	24.5	22.0	24.5	21.5	21.0	19.5
24	14.5	11.5	14.5	12.5	20.0	17.0	24.5	21.0	24.5	21.0	21.0	18.5
25	14.5	12.0	14.0	13.0	21.0	17.5	25.5	22.0	24.5	21.0	21.0	18.5
26	14.5	12.0	13.5	11.5	21.5	18.5	26.5	22.5	24.0	21.5	21.5	18.5
27	14.5	12.0	14.5	11.5	22.5	19.5	26.0	23.0	24.0	21.0	21.5	18.5
28	14.0	11.5	15.5	12.5	23.5	20.0	26.0	23.0	24.5	21.0	22.0	18.5
29	12.5	11.0	16.0	13.5	23.0	20.0	26.5	23.0	25.5	21.5	22.0	19.0
30	12.5	10.5	16.0	13.5	22.5	19.5	27.0	23.5	25.5	22.0	21.5	19.0
31	---	---	15.5	14.0	---	---	27.0	24.0	25.5	22.0	---	---
MONTH	14.5	8.5	16.0	10.5	23.5	13.0	27.0	19.0	28.0	21.0	25.5	18.5

## TULARE LAKE BASIN

11204900 TULE RIVER BELOW SUCCESS DAM, CALIF.

LOCATION.--Lat 36°03'23", long 118°55'22", in NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.35, T.21 S., R.28 E., Tulare County, at gaging station 1,000 ft downstream from Success Dam, and 5 miles east of Porterville.

DRAINAGE AREA.--393 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1961 to September 1969, water years 1970-73 (partial-record station).

Water temperatures: November 1970 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Maximum, 26.5°C Sept. 15; minimum, 4.5°C Dec. 6.

Period of record:

Water temperatures: Maximum (recorded), 29.0°C Sept. 13-15, 1972; minimum, 4.0°C Jan. 5, 1971.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Recorder malfunction Nov. 2, 3, Apr. 5 to May 2.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
MAY 10...	1320	140	--	--	--	.15	.01	.30
JULY 24...	1000	424	61	1	52	.01	--	.40
SEP. 19...	1100	350	--	--	--	.04	.01	.60

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
MAY 10...	.08	.02	--	--	130	8.4	13.5	14.9
JULY 24...	.11	.04	45	0	125	7.0	18.5	11.2
SEP. 19...	.04	.02	--	--	178	7.6	25.0	8.6



11204900 TULE RIVER BELOW SUCCESS DAM, CALIF.--Continued

TEMPERATURE (°C) QF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.5	21.0	20.0	13.0	15.0	9.0	10.0	7.0	8.5	8.0	11.0	10.0
2	23.5	21.0	---	---	10.5	8.0	10.0	7.0	9.0	8.0	11.5	10.0
3	23.0	21.0	---	---	10.0	7.5	9.5	7.0	9.0	8.5	12.0	10.5
4	23.5	20.5	15.5	11.5	13.0	8.5	10.0	7.0	9.5	8.5	11.5	10.0
5	24.5	20.0	18.0	12.5	12.0	6.0	9.5	7.0	9.0	8.5	11.5	10.0
6	23.5	20.5	19.5	11.5	10.0	4.5	9.5	7.0	9.0	8.5	11.5	10.0
7	23.5	20.5	17.0	13.0	9.5	9.5	9.5	6.5	9.0	8.5	11.5	10.5
8	23.0	20.5	15.0	11.0	9.5	9.0	9.0	6.5	9.5	9.0	12.0	10.5
9	23.0	21.0	18.5	9.0	9.5	9.0	9.5	6.5	9.5	9.0	11.5	10.0
10	23.0	20.5	13.5	11.5	9.0	8.5	9.0	6.5	10.5	9.0	12.0	10.0
11	22.5	20.5	14.0	10.5	8.5	8.0	9.0	6.5	10.5	9.0	12.0	10.5
12	23.0	20.5	19.5	10.5	8.5	8.0	9.0	7.0	9.5	9.0	12.5	10.5
13	23.0	20.0	13.5	10.0	8.0	7.0	9.0	6.5	10.0	9.0	12.0	10.0
14	23.0	20.0	14.0	11.5	8.0	7.0	9.0	8.0	10.0	9.0	12.0	10.0
15	22.5	19.5	17.0	10.5	8.5	7.0	9.0	7.0	10.0	9.0	12.0	10.0
16	22.0	19.5	15.0	11.0	9.0	6.5	9.0	7.5	9.5	9.0	12.0	10.0
17	22.0	19.5	14.5	10.5	8.0	6.5	9.0	8.0	9.5	9.5	12.5	9.5
18	22.0	19.0	18.0	11.0	9.5	6.5	9.0	9.5	9.5	9.0	12.5	10.5
19	22.5	19.0	16.0	11.5	9.0	6.5	9.0	8.0	10.0	9.0	12.5	10.0
20	19.5	17.5	17.5	9.5	9.0	7.0	9.0	8.5	10.0	9.0	12.5	10.0
21	24.5	15.5	15.5	8.5	9.5	6.5	8.5	8.5	10.0	9.0	12.0	10.0
22	24.5	16.0	16.5	11.5	9.0	7.0	8.5	8.0	10.5	9.0	12.5	10.5
23	23.5	16.5	16.5	10.0	9.5	6.5	8.5	8.0	10.0	9.5	12.0	9.5
24	23.5	17.0	16.0	8.0	8.5	6.0	9.0	7.0	10.0	9.5	11.5	10.0
25	24.5	16.0	11.0	9.0	9.5	7.0	8.5	6.5	10.0	9.5	11.5	9.5
26	22.5	15.0	11.0	10.0	9.5	7.0	8.5	7.0	10.5	9.0	12.0	10.0
27	21.0	15.0	11.0	9.5	10.0	6.5	8.5	7.0	10.5	10.0	11.5	10.5
28	22.0	15.5	11.5	9.0	8.5	7.0	8.5	7.0	11.0	10.0	12.0	11.0
29	20.5	15.0	13.0	9.5	9.5	7.0	8.5	7.5	---	---	11.5	11.0
30	19.0	13.5	11.5	10.0	10.5	7.0	9.0	6.5	---	---	11.0	9.5
31	19.0	12.0	---	---	9.5	7.0	9.0	7.0	---	---	11.5	9.5
MONTH	24.5	12.0	20.0	8.0	15.0	4.5	10.0	6.5	11.0	8.0	12.5	9.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	9.5	---	---	16.0	14.0	17.0	15.0	18.0	18.0	25.0	24.0
2	12.0	10.0	---	---	16.0	13.5	17.5	15.0	18.0	18.0	25.5	23.5
3	12.5	9.5	14.0	13.5	16.5	14.0	17.5	14.5	18.5	18.0	25.5	23.5
4	12.5	9.5	14.5	14.0	16.5	13.5	17.0	15.0	18.5	18.0	25.5	23.5
5	---	---	14.5	13.5	16.5	13.5	17.0	14.5	18.5	18.0	25.5	22.5
6	---	---	14.0	14.0	17.0	13.0	17.5	15.5	18.5	18.5	25.5	23.0
7	---	---	14.5	13.5	17.0	13.5	17.5	15.5	19.0	18.5	25.5	23.0
8	---	---	14.5	13.5	17.5	13.5	17.5	15.5	19.0	18.5	26.0	23.0
9	---	---	14.5	14.0	17.5	13.5	17.5	15.5	19.0	19.0	26.0	23.0
10	---	---	14.5	14.0	17.5	14.0	17.5	15.5	19.5	19.0	26.0	23.0
11	---	---	14.5	13.5	17.0	13.5	18.0	15.5	19.5	19.0	26.0	24.0
12	---	---	14.5	13.5	17.0	13.5	17.0	15.0	19.5	19.5	26.0	23.5
13	---	---	14.5	13.0	17.0	13.5	17.5	16.0	20.0	19.5	26.0	23.5
14	---	---	15.0	13.5	17.5	13.5	17.5	16.0	20.0	19.5	26.0	23.5
15	---	---	15.5	13.0	16.5	13.5	17.5	16.5	21.0	19.5	26.5	24.0
16	---	---	15.5	13.5	17.0	13.5	17.5	16.5	21.5	20.0	26.0	24.0
17	---	---	15.5	13.5	17.0	13.5	17.5	16.5	21.0	20.0	26.0	23.5
18	---	---	16.0	13.0	16.5	13.0	18.0	16.5	21.5	20.5	26.0	23.5
19	---	---	15.5	13.0	17.5	13.5	17.5	16.0	21.5	21.0	25.5	23.5
20	---	---	15.5	13.0	17.5	13.5	18.0	16.5	23.0	21.5	25.5	24.0
21	---	---	15.5	13.5	17.0	13.5	18.0	16.0	23.5	20.5	25.5	23.5
22	---	---	15.5	13.5	17.0	13.0	17.5	17.0	23.5	20.0	25.5	24.0
23	---	---	15.5	13.0	17.0	13.5	18.0	16.5	23.5	20.5	24.5	24.0
24	---	---	15.5	13.5	17.5	14.5	18.5	16.0	23.5	21.5	24.5	23.5
25	---	---	15.5	13.5	17.0	15.0	18.0	17.0	23.5	23.0	24.5	23.5
26	---	---	15.5	13.5	17.0	15.0	18.0	17.0	23.5	23.5	24.0	23.0
27	---	---	16.0	13.5	17.0	15.0	18.5	17.0	23.5	23.5	24.0	22.5
28	---	---	16.0	13.5	17.0	14.5	18.0	16.5	24.0	23.5	24.0	21.5
29	---	---	16.5	13.0	17.0	15.0	18.5	17.0	24.0	24.0	24.0	21.5
30	---	---	16.5	13.0	17.5	15.0	18.0	17.0	24.0	24.0	24.0	21.5
31	---	---	16.0	13.5	---	---	18.0	17.5	24.5	24.0	---	---
MONTH	---	---	16.5	13.0	17.5	13.0	18.5	14.5	24.5	18.0	26.5	21.5

## TULARE LAKE BASIN

11208610 MONARCH CREEK NEAR HAMMOND, CALIF.

LOCATION.--Lat 36°27'09", long 118°35'37", in SE¼NW¼ sec.15, T.17 S., R.31 E., Tulare County, Sequoia National Forest, at gaging station on right bank, 0.2 mile upstream from mouth, 0.3 mile northeast of Mineral King, and 14.9 miles east of Hammond.

DRAINAGE AREA.--1.89 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1968 to September 1972.

Water temperatures: October 1968 to September 1973 (discontinued).

Sediment records: Water years 1968-71 (partial-record station).

EXTREMES, 1972-73:

Water temperatures: Maximum, 12.5°C on several days during August; minimum, freezing point on many days during November and December.

Period of record:

Water temperatures: Maximum, 17.0°C July 18, 1972; minimum (1969-73), freezing point on many days during winter period of most years.

REMARKS.--Clock stopped Nov. 22 to Dec. 28, July 29 to Aug. 7; range in temperature, 0.0°C to 2.5°C, and 9.0°C to 12.5°C, respectively.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	6.5	3.5	2.0	---	---	1.5	0.5	3.5	3.0	3.5	3.0
2	8.0	5.5	6.0	2.0	---	---	2.0	1.0	3.0	2.5	3.5	2.5
3	7.0	5.0	5.5	2.5	---	---	2.0	1.5	3.5	3.0	4.0	3.0
4	8.0	5.0	2.5	1.0	---	---	1.5	1.0	3.5	3.0	3.5	2.0
5	10.5	5.0	3.0	0.5	---	---	1.5	1.0	3.5	3.0	4.0	3.0
6	10.0	5.5	2.5	0.5	---	---	2.0	1.5	3.5	2.0	4.0	3.0
7	9.0	6.0	2.5	1.5	---	---	2.0	1.5	3.5	3.0	4.0	3.0
8	9.0	5.0	3.0	0.5	---	---	2.5	1.5	3.5	3.0	4.0	3.5
9	7.5	4.0	3.0	0.5	---	---	1.5	1.0	3.5	3.0	4.0	3.5
10	7.5	3.5	1.5	0.5	---	---	2.5	1.0	3.5	1.5	4.0	3.5
11	5.5	3.0	1.5	0.5	---	---	2.5	1.0	3.0	2.5	4.0	3.5
12	6.5	3.5	0.5	0.0	---	---	2.5	2.0	3.5	3.0	4.0	3.5
13	8.0	2.5	1.0	0.0	---	---	2.5	2.0	3.5	2.5	4.0	3.5
14	6.5	2.0	1.0	0.5	---	---	3.0	2.5	3.5	3.0	4.0	3.5
15	7.0	2.0	0.5	0.0	---	---	3.0	2.5	3.0	2.5	4.5	3.5
16	5.0	2.5	0.5	0.5	---	---	3.0	1.0	3.0	2.5	4.5	3.5
17	6.0	2.5	1.5	0.5	---	---	2.5	1.0	3.0	2.0	4.5	4.0
18	5.0	2.0	1.5	0.5	---	---	3.0	1.0	3.0	2.5	5.0	4.0
19	3.5	2.5	1.0	0.5	---	---	2.0	1.5	3.5	2.5	5.0	4.5
20	4.5	2.0	0.5	0.0	---	---	3.0	2.0	3.5	3.0	4.5	4.0
21	7.0	3.0	1.5	0.5	---	---	3.0	2.5	3.5	3.0	4.5	3.0
22	7.5	3.5	---	---	---	---	3.0	2.5	3.5	3.0	4.0	3.5
23	7.0	3.0	---	---	---	---	3.0	3.0	3.5	3.0	4.5	3.5
24	7.5	3.0	---	---	---	---	3.0	3.0	3.5	3.5	4.5	3.5
25	6.5	3.0	---	---	---	---	3.0	2.0	3.5	2.0	5.0	4.0
26	6.0	2.5	---	---	---	---	3.0	2.5	3.5	2.5	5.0	4.5
27	5.0	2.5	---	---	---	---	3.0	3.0	3.5	3.0	5.0	4.5
28	5.0	2.0	---	---	---	---	3.0	3.0	3.5	2.5	4.5	4.0
29	3.5	1.0	---	---	1.0	0.0	3.0	2.5	---	---	5.0	4.5
30	2.5	0.5	---	---	1.5	1.0	3.0	2.5	---	---	5.0	5.0
31	4.0	1.0	---	---	1.0	0.5	3.0	2.5	---	---	5.0	5.0
MONTH	10.5	0.5	---	---	---	---	3.0	0.5	3.5	1.5	5.0	2.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.0	4.5	5.5	4.5	6.0	5.0	9.5	6.5	---	---	10.0	8.0
2	5.0	4.5	5.5	4.5	6.0	5.0	9.5	6.5	---	---	10.5	8.5
3	5.0	4.5	5.0	4.5	6.0	5.0	9.5	6.5	---	---	10.5	8.5
4	5.0	4.5	4.5	4.0	6.5	5.0	10.5	6.5	---	---	10.0	8.0
5	5.5	4.5	4.5	4.0	6.0	5.0	11.0	7.0	---	---	10.0	8.0
6	6.0	4.5	5.0	4.5	6.5	5.0	11.0	7.5	---	---	10.0	8.0
7	6.5	5.0	5.5	4.5	6.5	5.0	11.0	8.0	---	---	10.0	8.0
8	6.5	5.5	6.0	4.0	6.5	5.0	11.0	8.0	12.5	10.5	10.0	8.0
9	6.5	6.0	5.0	4.0	7.0	5.0	11.0	8.0	12.5	10.0	10.0	8.0
10	6.5	6.0	5.0	4.0	7.0	5.0	12.0	9.0	12.5	10.0	9.5	7.5
11	7.0	6.0	5.0	4.5	6.5	5.0	11.5	9.0	12.0	10.0	9.5	8.0
12	7.0	6.0	5.0	4.5	7.0	5.0	10.5	8.5	12.0	9.5	10.0	8.0
13	7.0	6.5	5.0	4.5	7.0	5.0	10.5	8.5	11.5	10.5	10.0	8.0
14	7.0	6.0	5.0	4.5	6.0	5.0	10.5	8.5	12.0	10.5	10.0	7.0
15	6.5	6.0	5.0	4.5	6.5	4.5	11.0	8.5	12.5	10.5	9.5	7.5
16	7.0	6.0	5.0	4.5	7.0	4.5	11.0	9.5	12.5	11.0	9.5	7.0
17	7.0	6.0	5.0	4.5	7.5	5.0	11.0	9.0	12.5	10.5	9.0	7.0
18	6.5	6.0	5.0	4.5	7.5	5.5	11.0	9.5	12.0	10.5	9.0	6.0
19	6.5	6.0	5.0	4.5	8.0	5.5	11.0	9.0	12.0	10.5	10.0	6.5
20	6.5	5.5	5.0	4.5	8.0	6.0	10.5	9.0	12.0	10.0	9.0	6.5
21	7.0	5.5	5.0	4.5	8.0	6.0	10.5	9.0	11.5	10.0	10.0	4.5
22	7.0	6.0	5.5	5.0	8.0	6.0	10.5	8.5	11.5	9.0	9.0	5.0
23	7.0	6.0	5.5	5.0	8.5	6.0	11.0	8.5	11.0	8.0	8.0	5.0
24	7.0	6.0	5.5	5.0	9.0	6.0	11.0	9.5	10.0	7.0	9.0	4.5
25	6.5	5.0	5.5	4.5	9.5	6.5	11.0	9.5	10.0	8.0	7.0	3.5
26	6.5	5.5	5.5	4.5	10.0	7.0	11.5	10.0	10.0	8.5	7.5	5.5
27	6.5	4.5	5.5	4.5	9.0	7.0	11.5	10.0	9.5	7.0	8.0	5.5
28	5.5	4.0	5.5	4.5	10.0	7.0	11.5	10.0	10.0	7.5	8.0	6.0
29	4.5	4.0	5.5	4.0	10.0	7.0	---	---	10.0	8.0	8.0	6.0
30	4.5	4.0	5.5	5.0	10.0	7.0	---	---	10.5	8.5	7.5	5.5
31	---	---	5.5	5.0	---	---	---	---	10.5	8.5	---	---
MONTH	7.0	4.0	6.0	4.0	10.0	4.5	12.0	6.5	---	---	10.5	3.5

11208620 EAST FORK KAWEAH RIVER BELOW MOSQUITO CREEK, NEAR HAMMOND, CALIF.

LOCATION.--Lat 36°27'05", long 118°37'04", in SW¼NW¼ sec.16, T.17 S., R.13 E., Tulare County, Sequoia National Forest, at gaging station on right bank, 300 ft downstream from Mosquito Creek, and 13.2 miles east of Hammond.

DRAINAGE AREA.--16.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1968 to September 1972.

Water temperatures: August 1968 to September 1973 (discontinued).

Sediment records: Water years 1968-71 (partial-record station).

EXTREMES, 1972-73:

Water temperatures: Maximum, 16.5°C Aug. 15; minimum, 0.5°C Jan. 5, 6.

Period of record:

Water temperatures: Maximum, 19.5°C July 12, 1972; minimum, freezing point on many days during winter period of most years.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.0	5.0	4.0	2.5	2.0	1.5	1.0	3.0	2.0	3.0	2.0
2	10.0	8.5	6.0	4.0	2.5	1.5	1.5	1.0	3.0	2.5	3.0	2.0
3	9.0	7.5	6.0	4.5	2.5	1.5	2.0	1.5	3.0	3.0	3.0	2.0
4	9.0	8.0	5.0	2.0	2.0	1.5	1.5	1.5	3.0	2.5	2.0	1.5
5	10.5	7.0	3.5	1.5	1.5	1.5	1.5	0.5	3.0	2.5	3.0	1.5
6	10.5	8.0	3.5	2.0	1.5	1.5	1.0	0.5	3.0	2.5	3.0	2.5
7	10.0	8.0	4.5	3.5	1.5	1.5	1.0	1.0	3.0	2.5	3.5	2.0
8	10.0	8.0	4.0	3.0	1.5	1.5	1.0	1.0	3.5	2.5	3.5	2.5
9	9.0	7.0	3.5	2.5	1.5	1.5	1.0	1.0	3.5	2.5	3.5	2.5
10	8.5	7.0	3.5	3.0	1.5	1.5	1.5	1.0	3.0	2.5	4.0	3.0
11	8.0	6.5	3.0	1.5	1.5	1.5	2.0	1.5	2.5	2.0	3.0	2.5
12	8.0	6.5	2.0	1.5	2.0	1.5	2.5	2.0	2.0	2.0	3.0	2.5
13	8.0	6.0	2.5	1.5	1.5	1.5	2.5	2.0	2.5	2.0	3.0	2.0
14	7.5	5.5	2.5	1.5	1.5	1.5	2.5	2.0	2.5	2.5	3.0	1.5
15	7.0	5.0	1.5	1.5	2.0	1.5	2.5	2.0	3.0	2.5	3.5	2.0
16	7.0	5.0	2.0	1.5	2.5	2.0	2.5	1.5	3.0	2.5	3.5	2.0
17	7.0	5.5	2.5	2.0	2.5	2.5	1.5	1.0	3.0	2.5	3.5	2.5
18	7.0	5.0	2.5	2.0	3.0	2.5	1.0	1.0	3.0	2.5	3.5	2.0
19	6.5	5.5	2.5	2.0	3.5	2.5	1.0	1.0	3.0	2.5	3.5	2.5
20	5.5	4.0	2.5	1.5	3.5	3.0	1.0	1.0	3.0	2.5	3.0	2.0
21	7.5	5.0	3.0	2.0	3.5	2.5	1.0	1.0	3.5	2.5	2.5	2.0
22	8.0	6.0	3.5	2.0	3.5	3.0	1.5	1.0	3.5	2.5	2.5	2.0
23	8.0	6.0	2.5	1.5	3.0	2.5	2.0	1.5	3.5	2.5	3.5	2.5
24	8.0	6.0	2.5	1.5	3.0	2.5	2.5	2.0	3.0	2.5	4.0	2.5
25	7.5	6.0	3.0	2.0	3.0	2.5	2.5	2.5	2.5	2.0	4.0	3.0
26	7.0	5.5	3.0	2.5	3.0	2.5	2.5	2.0	3.0	2.0	4.0	3.0
27	6.5	5.5	3.0	2.5	3.0	2.5	2.5	2.0	3.0	2.5	3.5	3.0
28	6.5	5.0	3.0	2.5	3.0	1.5	3.0	2.5	3.0	2.0	3.5	2.5
29	5.5	4.0	3.0	2.0	1.5	1.5	3.0	2.5	---	---	3.0	2.5
30	4.5	3.0	2.5	2.0	1.5	1.0	3.0	2.5	---	---	3.0	3.0
31	4.5	2.5	---	---	1.5	1.0	2.5	2.0	---	---	4.0	3.0
MONTH	10.5	2.5	6.0	1.5	3.5	1.0	2.0	0.5	3.5	2.0	4.0	1.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.0	2.0	4.5	4.0	6.5	4.0	12.0	8.5	13.5	11.5	13.5	9.5
2	3.5	2.0	5.0	4.0	7.0	4.0	12.0	8.5	14.0	11.5	14.0	9.5
3	4.0	2.0	5.0	4.5	6.5	4.5	12.5	8.5	13.5	12.0	13.5	10.0
4	4.0	2.5	5.0	4.5	7.5	4.5	13.0	8.5	14.0	11.0	13.5	9.5
5	5.0	3.0	4.5	4.5	7.0	4.5	13.5	9.5	13.5	12.0	13.5	10.0
6	5.0	3.5	5.0	4.5	7.5	4.5	14.0	10.5	13.0	11.0	14.0	10.0
7	5.0	4.0	5.0	4.5	8.0	4.5	14.0	10.5	16.0	11.0	14.0	9.5
8	5.5	3.5	5.5	5.0	7.5	5.0	14.0	10.5	16.0	12.0	13.5	9.5
9	5.0	4.0	5.0	5.0	7.5	4.5	14.5	10.5	16.0	11.5	13.0	9.5
10	5.0	4.0	5.0	4.5	8.0	4.5	12.5	11.0	15.5	11.0	13.0	9.0
11	5.0	4.0	4.5	4.5	8.5	4.5	13.0	10.0	15.5	11.0	13.5	9.5
12	5.0	4.0	4.5	4.0	8.5	5.0	13.0	9.5	16.0	11.0	13.5	9.5
13	5.5	3.5	4.5	4.0	9.0	5.0	13.0	9.5	15.5	10.5	13.0	9.5
14	5.0	3.5	4.5	4.0	6.5	5.0	13.0	10.0	16.0	12.0	13.0	9.0
15	4.5	3.5	4.5	4.0	7.5	4.5	13.5	9.5	16.5	12.0	13.0	9.5
16	6.0	3.5	5.0	4.0	7.5	5.0	13.0	10.0	16.0	12.5	13.0	9.5
17	5.5	4.0	5.0	4.0	8.5	5.5	13.5	10.0	16.0	11.5	12.0	9.0
18	5.0	3.5	5.5	4.0	9.0	6.5	12.5	10.0	15.5	11.0	12.0	8.0
19	5.5	4.5	5.5	4.0	9.0	6.5	14.0	9.5	15.5	11.5	12.0	8.5
20	5.5	4.5	4.0	3.5	9.5	7.0	14.0	10.0	12.5	11.0	11.5	8.5
21	6.0	4.5	5.5	3.0	9.0	7.0	14.5	10.0	15.5	11.0	11.5	7.5
22	6.0	4.5	6.5	3.5	9.0	7.0	13.5	9.0	15.0	10.0	11.5	8.0
23	6.0	5.0	7.0	4.5	9.5	6.5	14.0	9.5	14.0	9.5	11.0	8.5
24	5.5	5.0	7.0	5.0	10.5	7.5	14.5	10.0	13.5	8.5	11.0	7.5
25	6.0	4.5	6.5	4.5	11.0	8.0	14.5	10.0	14.0	9.0	10.0	7.0
26	5.5	4.5	6.0	4.5	11.0	8.5	14.5	10.5	12.0	10.0	10.5	7.5
27	5.0	4.5	6.5	4.5	10.0	8.5	14.5	10.5	13.0	9.0	11.0	8.0
28	5.0	4.0	7.0	4.5	11.5	8.5	13.5	10.5	13.5	9.5	11.0	8.5
29	4.5	4.0	6.5	4.5	12.0	8.5	14.0	11.0	14.0	10.0	11.0	8.0
30	4.5	4.0	5.0	4.0	12.0	9.0	14.0	11.0	14.0	10.0	10.5	7.5
31	---	---	5.5	4.0	---	---	13.5	11.0	14.0	10.0	---	---
MONTH	6.0	2.0	7.0	3.0	12.0	4.0	14.5	8.5	16.5	8.5	14.0	7.0

## TULARE LAKE BASIN

11208730 EAST FORK KAWEAH RIVER NEAR THREE RIVERS, CALIF.

LOCATION.--Lat 36°27'05", long 118°47'15", in NW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec.14, T.17 S., R.29 E., Tulare County, temperature recorder at gaging station on left bank just downstream from diversion dam, and 6.6 miles east of Three Rivers.

DRAINAGE AREA.--85.8 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1968 to September 1971.

Water temperatures: June 1968 to September 1973.

Sediment records: Water years 1968-71 (partial-record station).

EXTREMES, 1972-73:

Water temperatures: Maximum, 20.0°C Aug. 14-17; minimum, 1.5°C on several days during December and January.

Period of record:

Water temperatures: Maximum, 22.0°C on several days in 1972; minimum, 0.5°C in several days in 1970 and 1971.

REMARKS.--Records furnished by Southern California Edison Company.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	14.5	6.5	6.5	4.5	4.0	1.5	1.5	4.0	3.5	6.5	5.5
2	15.0	15.0	6.5	6.5	4.0	4.0	1.5	1.5	4.0	3.5	6.5	5.5
3	15.0	14.5	6.5	6.5	4.0	4.0	1.5	1.5	4.5	4.0	6.0	4.5
4	14.5	14.0	6.5	6.5	4.5	4.0	1.5	1.5	5.0	4.5	5.5	4.5
5	14.0	13.5	7.0	6.5	4.5	3.0	1.5	1.5	5.0	4.5	4.5	4.0
6	14.0	13.5	7.0	7.0	3.0	2.0	1.5	1.5	5.5	4.5	5.0	4.5
7	14.5	14.0	7.0	7.0	2.0	2.0	1.5	1.5	5.5	5.5	5.5	4.5
8	14.5	14.5	8.0	7.0	2.0	2.0	1.5	1.5	5.5	4.5	5.5	5.0
9	14.5	14.5	8.0	7.0	2.0	2.0	2.0	1.5	5.0	4.5	5.5	4.5
10	14.5	13.5	7.0	6.5	2.0	2.0	3.0	2.0	5.0	4.5	6.5	5.5
11	13.5	13.0	6.5	6.5	2.0	2.0	3.5	3.0	4.5	4.5	6.5	5.0
12	13.0	12.0	6.5	5.5	2.0	2.0	4.0	3.5	4.5	4.5	5.0	4.5
13	12.0	12.0	5.5	5.0	2.0	2.0	4.0	4.0	5.0	4.5	4.5	3.5
14	12.0	11.5	5.5	5.0	2.0	2.0	4.0	4.0	5.0	4.5	4.5	3.0
15	11.5	11.5	5.5	5.5	2.0	2.0	4.5	4.0	4.5	4.5	5.5	4.0
16	11.5	11.0	5.5	5.5	2.0	2.0	6.0	4.5	4.5	4.0	6.5	5.0
17	11.0	11.0	5.5	5.5	3.0	2.0	4.5	4.5	4.5	4.0	6.5	5.5
18	11.0	11.0	5.5	5.5	3.5	3.0	6.0	4.5	5.0	4.5	5.5	5.0
19	11.0	11.0	5.5	5.5	4.5	3.5	5.0	3.5	5.0	4.5	6.5	4.5
20	11.0	10.5	5.5	5.0	4.5	4.5	3.5	2.0	5.0	4.5	6.5	4.5
21	10.5	10.5	5.0	4.5	4.5	4.5	3.0	3.0	5.5	4.5	4.5	3.0
22	10.5	10.5	4.5	4.5	5.5	4.5	3.0	2.0	5.5	4.5	4.0	2.0
23	10.5	10.5	4.5	4.5	5.5	5.0	2.0	2.0	5.5	5.0	5.5	3.5
24	11.0	10.5	4.5	4.0	5.0	4.5	3.0	2.0	6.0	5.5	6.5	4.5
25	11.0	11.0	4.0	3.5	4.5	3.5	3.5	3.0	6.0	4.5	6.5	5.5
26	11.0	10.0	4.0	3.5	3.5	3.5	3.5	3.5	5.5	4.5	6.5	6.0
27	10.0	10.0	4.0	4.0	3.5	3.5	3.5	3.0	6.5	5.5	6.0	6.0
28	10.0	10.0	4.5	4.0	3.5	3.5	3.5	3.0	6.5	6.0	6.0	4.5
29	10.0	9.5	4.5	4.5	3.5	2.0	4.0	3.5	---	---	5.0	3.5
30	9.5	8.0	4.5	4.5	2.0	1.5	4.0	4.0	---	---	5.0	4.5
31	8.0	6.5	---	---	1.5	1.5	4.0	4.0	---	---	8.0	5.0
MONTH	15.0	6.5	8.0	3.5	5.5	1.5	6.0	1.5	6.5	3.5	8.0	2.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	5.0	9.5	5.5	10.5	8.0	15.0	11.0	18.0	16.5	16.5	15.5
2	6.0	3.5	10.5	6.5	11.5	8.0	15.5	11.0	19.0	16.5	16.5	15.5
3	7.0	4.5	10.5	6.5	11.0	8.0	15.5	11.0	19.0	16.5	16.5	15.5
4	8.0	5.0	9.5	6.5	12.0	8.0	15.5	11.5	18.0	15.0	16.5	16.0
5	9.0	5.5	8.0	6.0	12.0	8.0	16.0	13.5	18.0	16.5	16.5	16.0
6	9.5	6.5	9.5	5.5	13.0	8.5	16.0	14.0	18.0	15.5	16.5	16.0
7	9.5	7.0	10.0	6.5	13.5	8.5	16.0	13.5	18.5	16.5	16.5	16.0
8	9.5	6.5	10.0	7.0	14.0	9.0	16.0	13.5	18.5	16.5	16.5	16.0
9	8.5	6.5	11.0	7.0	13.0	8.5	16.5	14.0	18.5	16.0	16.5	15.5
10	9.5	6.5	11.0	7.0	13.0	9.0	18.0	14.5	18.5	16.0	16.0	15.5
11	10.0	6.5	11.0	6.5	13.0	8.5	18.0	15.5	18.0	16.0	16.0	15.5
12	9.0	6.0	9.5	6.5	13.5	9.0	18.0	14.5	18.5	16.0	16.0	16.0
13	8.0	7.0	9.5	7.0	13.5	8.5	16.5	14.5	19.0	17.0	16.5	16.5
14	8.0	5.5	9.5	7.0	12.0	9.0	16.5	14.5	20.0	18.0	16.5	16.5
15	7.0	5.5	10.0	7.0	11.5	7.0	17.0	15.0	20.0	18.5	17.0	16.5
16	9.5	5.5	11.0	7.0	12.0	8.0	18.0	15.5	20.0	18.5	16.5	16.0
17	9.5	8.0	11.0	7.0	13.0	8.5	18.0	15.5	20.0	18.0	16.0	15.5
18	8.5	6.0	11.0	7.0	13.5	8.5	18.0	16.5	19.5	18.0	15.5	15.5
19	7.0	5.5	10.5	7.0	13.5	9.5	18.0	16.0	19.0	18.0	15.5	15.0
20	7.0	4.5	10.0	7.0	14.0	9.5	18.0	15.5	19.0	17.0	15.5	15.5
21	8.0	5.0	10.5	6.0	14.0	9.5	16.5	14.5	18.0	16.5	15.5	15.5
22	10.0	6.5	11.0	7.0	14.0	10.0	16.5	14.0	18.0	16.5	15.5	15.0
23	10.5	7.0	11.5	7.0	14.0	9.5	16.5	14.5	17.0	15.5	15.0	14.5
24	10.5	7.0	10.5	8.0	15.0	10.5	16.5	14.5	16.0	14.0	14.5	14.0
25	11.0	7.0	10.5	8.0	16.0	11.0	18.0	14.5	15.5	14.5	14.5	13.5
26	10.5	6.5	10.0	6.0	16.5	12.0	18.0	15.0	15.5	14.5	13.5	13.5
27	10.5	6.5	11.0	6.5	16.0	12.0	18.0	16.0	14.5	13.0	14.0	13.5
28	10.0	6.5	11.5	8.0	16.0	13.0	18.0	15.5	15.5	14.0	14.5	14.0
29	8.5	5.5	11.5	8.0	16.0	13.0	18.0	16.5	16.0	14.5	14.5	14.0
30	8.0	6.0	10.0	8.0	16.0	12.0	17.0	16.5	16.5	15.5	14.5	14.0
31	---	---	10.5	8.5	---	---	17.0	16.5	16.5	15.5	---	---
MONTH	11.0	3.5	11.5	5.5	16.5	7.0	18.0	11.0	20.0	13.0	17.0	13.5

## TULARE LAKE BASIN

283

## 11209900 KAWEAH RIVER AT THREE RIVERS, CALIF.

LOCATION.--Lat 36°26'38", long 118°54'09", in SW¼SW¼ sec.13, T.17 S., R.28 E., Tulare County, temperature recorder at gaging station on right bank opposite schoolhouse in Three Rivers, and 0.2 mile downstream from North Fork Kaweah River.

DRAINAGE AREA.--418 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1963 to July 1966.

Water temperatures: October 1965 to December 1966, January 1968 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 26.5°C Aug. 15, 16; minimum, 0.5°C Dec. 12.

Period of record:

Water temperatures: Maximum, 30.0°C July 14, 15, 1972; minimum, 0.5°C Jan. 7, 1971, Dec. 12, 1972.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRLARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	19.0	12.5	9.0	8.0	5.0	5.5	1.5	9.5	5.5	11.5	8.5
2	20.5	18.0	13.0	8.5	6.5	5.0	5.5	1.5	7.5	5.5	12.5	8.5
3	19.0	16.0	13.5	8.5	7.0	5.0	4.5	2.5	7.5	6.5	10.5	7.0
4	19.5	16.5	12.0	9.5	7.5	6.0	6.0	2.5	11.0	7.0	9.0	7.5
5	21.5	15.5	14.0	9.5	6.5	4.5	5.5	2.0	9.0	6.0	10.0	5.5
6	22.0	16.5	13.0	9.5	4.5	3.5	4.5	1.0	9.5	7.5	10.0	7.0
7	22.5	17.0	12.5	11.0	6.5	3.5	5.5	1.5	11.5	8.0	10.0	7.0
8	21.0	16.5	13.0	10.5	4.5	2.5	4.5	2.5	11.0	7.0	10.0	7.5
9	19.0	17.5	13.0	9.0	4.0	1.5	6.0	4.0	10.5	6.5	11.5	7.5
10	20.0	15.5	11.0	9.5	4.0	1.5	7.0	4.0	9.0	8.0	12.0	8.5
11	18.0	15.0	10.0	8.5	4.0	1.5	8.0	5.0	8.0	7.0	10.5	7.5
12	18.5	14.0	11.0	7.5	4.0	0.5	9.5	6.5	8.5	6.5	8.0	6.5
13	19.5	14.0	8.5	6.5	3.5	1.0	9.5	6.0	9.5	7.0	7.5	6.0
14	19.0	14.0	9.0	8.0	3.5	2.0	9.0	6.0	8.0	7.0	10.0	4.5
15	19.0	14.0	9.5	8.0	4.5	2.0	10.0	6.0	7.5	6.5	11.5	6.0
16	17.0	14.0	9.0	8.0	6.0	2.5	9.0	8.0	9.5	5.5	12.5	7.0
17	18.5	13.0	10.0	7.5	6.5	5.5	8.0	7.0	10.0	6.0	9.5	8.0
18	19.0	13.5	10.0	7.5	8.5	5.5	8.0	6.5	10.5	7.0	10.0	7.5
19	17.5	15.0	10.0	7.5	9.5	6.0	7.0	4.5	11.0	6.0	11.0	6.0
20	16.0	14.5	10.0	6.5	9.5	7.5	6.0	3.5	11.0	6.5	9.0	6.0
21	17.5	13.0	9.5	6.0	10.0	6.5	5.0	4.5	10.0	7.5	6.0	5.0
22	18.0	13.5	10.0	7.5	10.0	7.0	6.5	3.5	11.5	6.5	8.0	5.0
23	18.0	13.5	9.5	6.5	10.0	7.5	7.0	3.0	11.0	7.0	10.5	5.0
24	17.5	13.5	9.0	5.0	8.5	7.0	7.5	3.5	12.0	8.5	12.0	6.0
25	17.5	13.5	7.5	5.0	8.5	6.0	6.5	4.5	12.0	7.0	11.5	7.5
26	16.5	12.5	7.0	6.0	8.5	4.5	7.0	5.0	9.5	7.5	9.5	8.0
27	16.0	12.5	7.5	6.5	8.0	4.5	8.0	4.0	10.5	8.0	9.5	7.5
28	16.0	12.0	8.5	6.5	6.5	4.5	8.0	4.0	11.0	9.0	8.5	6.0
29	14.0	11.5	8.5	6.0	6.5	3.0	8.0	4.5	---	---	9.0	4.5
30	13.5	9.0	8.0	5.5	6.0	2.5	9.0	6.0	---	---	8.5	5.5
31	13.0	8.0	---	---	5.5	2.0	9.5	5.5	---	---	11.0	7.5
MONTH	22.5	8.0	14.0	5.0	10.0	0.5	10.0	1.0	12.0	5.5	12.5	4.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	7.5	12.5	7.5	12.0	9.5	18.5	14.5	24.0	19.0	23.5	17.5
2	11.0	5.0	13.5	9.0	13.5	10.0	19.0	15.0	25.0	19.0	24.0	17.5
3	12.5	6.5	13.5	9.0	14.5	10.0	19.5	15.5	23.5	19.5	22.5	18.5
4	13.5	7.0	12.5	9.0	15.0	10.5	20.0	16.0	24.0	17.5	24.5	18.0
5	14.5	8.5	10.0	8.0	14.5	11.0	20.5	17.0	22.0	19.5	23.5	18.5
6	15.0	9.5	12.5	7.0	16.0	11.0	21.0	17.0	23.5	18.0	24.0	18.0
7	14.5	10.5	13.5	9.5	16.5	11.5	20.5	16.5	24.0	19.0	24.0	18.0
8	14.0	10.0	13.5	9.5	17.0	12.0	21.0	16.0	24.5	19.0	24.0	18.5
9	12.0	9.5	13.5	8.5	16.0	11.5	22.0	17.0	24.0	18.5	24.0	18.0
10	13.0	9.5	13.5	8.5	15.5	12.0	22.0	18.0	24.0	18.5	24.0	17.5
11	14.0	10.0	13.5	8.5	15.0	11.0	22.5	18.5	24.5	18.5	24.0	18.5
12	12.5	9.5	12.5	8.5	16.0	11.5	22.0	17.5	25.0	19.0	24.5	18.5
13	13.0	9.0	12.0	8.5	16.0	11.5	21.5	17.0	25.5	20.0	25.0	19.0
14	9.5	8.0	11.0	9.0	15.0	11.0	22.0	17.0	26.0	20.5	24.0	19.5
15	10.5	8.0	12.5	8.5	13.5	9.0	22.5	17.5	26.5	20.5	23.5	18.0
16	13.0	7.5	13.5	8.5	14.5	10.5	22.5	18.0	26.5	21.0	23.5	17.5
17	12.5	9.5	14.0	9.0	15.0	11.5	23.0	18.0	26.0	20.5	23.0	17.5
18	11.0	8.0	14.5	9.0	15.5	11.5	23.5	18.5	25.5	19.5	23.0	17.0
19	9.5	7.0	14.0	9.5	17.0	12.0	23.5	18.5	26.0	20.0	23.0	17.0
20	12.0	6.0	12.5	9.0	17.0	13.0	22.0	18.0	23.5	20.0	23.5	17.5
21	13.0	7.0	12.5	8.5	17.0	13.0	22.0	17.0	25.0	19.5	23.0	17.5
22	15.0	9.0	13.5	9.0	17.0	13.0	22.0	16.5	24.0	19.0	21.5	17.0
23	15.0	10.0	14.0	9.5	16.5	12.0	22.5	17.0	23.0	17.5	21.5	17.0
24	14.5	10.0	13.0	10.0	17.5	13.5	22.5	16.5	22.5	16.5	21.0	15.5
25	14.5	9.5	13.0	10.0	18.5	14.0	23.5	17.0	23.0	17.0	21.0	15.5
26	14.0	8.5	12.0	8.5	19.0	14.5	24.5	18.5	22.0	18.0	21.5	15.5
27	13.5	8.5	13.0	8.5	20.0	15.5	24.5	18.5	21.5	16.5	22.0	15.5
28	13.0	8.5	14.5	9.5	20.5	16.0	24.0	18.5	22.5	16.5	22.0	16.0
29	10.0	7.5	14.5	10.0	20.0	16.0	24.0	19.0	24.0	17.5	22.0	16.0
30	10.0	8.0	13.5	10.0	19.0	15.5	23.0	19.0	24.5	18.0	22.0	16.0
31	---	---	12.5	10.5	---	---	23.0	19.0	24.0	18.5	---	---
MONTH	15.0	5.0	14.5	7.0	20.5	9.0	24.5	14.5	26.5	16.5	25.0	15.5

## TULARE LAKE BASIN

11210950 KAWEAH RIVER BELOW TERMINUS DAM, CALIF.

LOCATION.--Lat 36°24'51", long 119°00'42", in SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec.26, T.17 S., R.27 E., Tulare County, at gaging station 0.6 mile downstream from Terminus Dam, and 2.2 miles northeast of Lemoncove.

DRAINAGE AREA.--561 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1961 to September 1969, water years 1970-73 (partial-record station).

Water temperatures: November 1970 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Maximum recorded, 27.5°C Aug. 21, 23, 24.

Period of record:

Water temperatures: Maximum, 28.5°C Aug. 29, Sept. 1, 1972; minimum (1971-72), 5.0°C Jan. 9, 10, 1971.

REMARKS.--Recorder malfunction Oct. 3 to Nov. 2, Dec. 20 to Feb. 15, July 3-23.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	BICARBONATE (HCO <sub>3</sub> ) (MG/L)	CARBONATE (CO <sub>3</sub> ) (MG/L)	ALKALINITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
MAY 17...	1230	1680	--	--	--	.05	.00	.10	.03
JULY 24...	0815	1660	18	0	15	.02	--	.20	.02
SEP. 26...	1500	7.9	--	--	--	.09	.01	.20	.02

DATE	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	SUS- PENDED SOLIDS (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC. CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
MAY 17...	.01	--	--	--	35	7.3	12.0	12.3
JULY 24...	.00	5	14	0	50	6.8	19.0	11.5
SEP. 26...	.01	4	--	--	103	7.3	23.0	10.3

## TULARE LAKE BASIN

285

11210950 KAWEAH RIVER BELOW TERMINUS DAM, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25.0	19.0	---	---	11.0	10.5	---	---	---	---	11.5	10.5
2	21.5	20.5	---	---	10.5	10.0	---	---	---	---	11.5	11.5
3	---	---	17.5	13.0	11.0	10.0	---	---	---	---	12.0	11.5
4	---	---	16.0	13.5	10.5	10.0	---	---	---	---	11.5	11.0
5	---	---	18.0	10.5	10.0	9.5	---	---	---	---	11.0	10.5
6	---	---	16.5	13.5	9.5	9.0	---	---	---	---	11.0	10.5
7	---	---	15.5	14.0	9.5	8.5	---	---	---	---	10.5	10.5
8	---	---	15.0	14.0	9.0	8.5	---	---	---	---	10.5	10.5
9	---	---	16.0	12.5	9.0	8.0	---	---	---	---	11.0	10.5
10	---	---	14.5	10.0	8.5	7.5	---	---	---	---	11.0	10.5
11	---	---	13.5	9.5	8.0	7.0	---	---	---	---	11.0	11.0
12	---	---	15.5	11.5	8.0	6.5	---	---	---	---	11.0	10.0
13	---	---	13.5	10.5	6.5	6.0	---	---	---	---	10.5	10.0
14	---	---	14.0	10.5	7.0	6.0	---	---	---	---	10.0	9.0
15	---	---	13.5	12.0	7.0	6.0	---	---	---	---	10.0	9.5
16	---	---	13.5	13.0	7.5	5.5	---	---	9.0	8.5	10.0	9.5
17	---	---	13.0	12.5	7.0	6.0	---	---	9.0	8.5	10.0	10.0
18	---	---	13.0	12.5	7.5	6.5	---	---	9.5	9.0	10.5	10.0
19	---	---	13.0	12.5	8.0	6.5	---	---	9.5	9.0	10.5	10.0
20	---	---	14.0	12.0	---	---	---	---	9.5	9.5	10.5	10.0
21	---	---	13.0	11.5	---	---	---	---	9.5	9.5	10.0	9.0
22	---	---	12.5	12.0	---	---	---	---	10.0	9.5	9.0	8.5
23	---	---	13.0	12.0	---	---	---	---	10.0	9.5	10.0	8.5
24	---	---	13.0	11.5	---	---	---	---	10.5	9.5	10.0	8.5
25	---	---	12.0	11.5	---	---	---	---	10.5	10.0	9.5	8.5
26	---	---	12.0	11.5	---	---	---	---	10.5	10.0	9.5	9.0
27	---	---	11.5	11.0	---	---	---	---	11.0	10.5	9.5	9.0
28	---	---	11.5	11.0	---	---	---	---	10.5	10.5	10.0	9.0
29	---	---	11.5	11.0	---	---	---	---	---	---	10.0	9.0
30	---	---	11.0	10.5	---	---	---	---	---	---	9.5	9.0
31	---	---	---	---	---	---	---	---	---	---	9.5	9.0
MONTH	---	---	18.0	9.5	---	---	---	---	---	---	12.0	8.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	13.0	12.5	13.0	12.5	15.0	14.5	21.5	21.0	26.0	24.0
2	10.0	9.5	13.0	12.5	13.0	12.5	15.5	14.5	22.5	21.5	26.0	24.0
3	10.5	9.0	13.0	12.5	13.0	12.5	---	---	22.5	22.0	26.0	24.0
4	10.5	9.5	13.0	12.5	13.0	12.5	---	---	23.5	22.5	26.0	24.0
5	10.5	10.0	13.0	12.5	13.0	13.0	---	---	23.5	23.0	26.0	24.0
6	11.0	10.5	13.0	12.5	13.5	13.0	---	---	24.0	23.5	26.0	24.0
7	11.0	10.5	12.5	12.0	13.5	13.0	---	---	24.5	24.0	26.0	23.5
8	11.5	11.0	13.0	12.0	14.0	13.0	---	---	25.0	24.0	25.5	23.5
9	11.5	11.0	13.0	12.5	17.0	14.5	---	---	25.0	24.5	25.5	23.5
10	12.0	11.5	13.0	12.5	17.0	15.5	---	---	25.5	25.0	25.5	23.5
11	12.0	11.5	13.0	12.5	16.0	15.0	---	---	25.5	25.0	25.5	23.5
12	12.0	12.0	13.0	12.5	16.0	15.0	---	---	26.0	25.5	26.0	23.5
13	12.5	12.0	12.5	12.0	16.0	14.5	---	---	26.0	25.5	26.0	23.5
14	12.5	12.0	12.5	12.0	15.0	14.0	---	---	26.0	26.0	25.5	23.5
15	12.0	12.0	12.5	12.0	14.0	14.0	---	---	26.5	26.0	25.5	23.5
16	12.5	12.0	12.5	12.0	14.0	13.5	---	---	26.5	26.0	25.5	23.0
17	12.0	11.0	12.5	12.0	14.0	13.5	---	---	26.5	26.0	25.5	23.0
18	12.5	11.5	12.5	12.0	14.0	13.5	---	---	27.0	26.5	25.5	23.0
19	12.5	12.0	12.5	12.0	14.0	14.0	---	---	27.0	26.5	25.5	23.0
20	12.5	12.0	12.5	12.0	14.5	14.0	---	---	27.0	26.5	25.0	23.0
21	12.5	12.0	12.5	12.0	14.5	14.0	---	---	27.5	26.5	25.0	23.0
22	12.5	12.0	12.5	12.0	14.5	14.0	---	---	27.0	26.5	25.5	23.0
23	13.0	12.0	12.5	12.0	14.5	14.0	18.5	18.5	27.5	26.0	26.0	21.0
24	13.0	12.5	12.5	12.0	14.5	14.0	19.0	18.5	27.5	25.5	26.5	20.5
25	13.0	12.5	12.5	12.0	14.5	14.0	19.5	18.5	27.0	25.0	26.0	20.5
26	13.5	12.5	12.5	12.5	15.0	14.5	19.5	19.0	26.5	25.0	26.5	20.0
27	13.5	13.0	12.5	12.5	15.0	14.5	20.0	19.0	26.5	24.5	26.5	20.0
28	13.5	13.0	12.5	12.5	15.0	14.5	20.0	19.5	26.5	24.0	26.5	20.0
29	13.0	12.5	12.5	12.5	15.0	14.5	20.5	20.0	26.0	24.0	26.0	19.5
30	13.0	12.5	12.5	12.0	15.0	14.5	21.0	20.5	26.0	24.0	26.0	19.0
31	---	---	12.5	12.5	---	---	21.5	20.5	26.0	24.0	---	---
MONTH	13.5	9.0	13.0	12.0	17.0	12.5	---	---	27.5	21.0	26.5	19.0

## TULARE LAKE BASIN

11213500 KINGS RIVER ABOVE NORTH FORK, NEAR TRIMMER, CALIF.

LOCATION.--Lat 36°51'48", long 119°07'24", in NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.27, T.12 S., R.26 E., Fresno County, temperature recorder at gaging station on right bank at Rogers Crossing, 0.9 mile upstream from North Fork, 2.9 miles south of Balch Camp, and 9.6 miles southeast of Trimmer.

DRAINAGE AREA.--952 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1955. Water temperatures: December 1965 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 23.0°C Aug. 15, 16; minimum, 0.5°C Dec. 10, 12, Jan. 6.

Period of record:

Water temperatures: Maximum (1967-73), 27.0°C Aug. 9-11, 1972; minimum, freezing point Dec. 14, 15, 1967.

REMARKS.--Clock stopped Sept. 4-27; range in temperature, 18.0°C to 20.0°C.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	16.5	10.0	8.5	6.0	4.5	3.0	1.5	6.5	5.5	9.0	8.0
2	18.5	16.0	10.0	8.0	6.0	4.5	3.0	1.0	6.0	5.0	10.0	8.0
3	17.5	15.5	10.0	8.5	6.0	5.5	3.0	2.5	7.0	6.0	9.0	7.0
4	16.5	15.5	10.0	9.0	6.5	5.5	3.5	2.5	8.0	7.0	8.0	7.0
5	17.5	15.0	10.5	9.0	6.0	4.0	2.5	1.5	7.5	6.0	8.0	6.0
6	17.5	15.0	10.0	9.0	4.0	3.5	2.0	0.5	8.0	7.0	7.5	6.5
7	17.0	15.5	10.0	9.5	4.5	3.0	2.5	1.0	8.5	7.5	8.0	6.5
8	16.5	14.5	11.0	9.5	4.0	2.0	3.0	1.5	8.0	6.5	9.0	6.5
9	16.5	15.5	10.5	9.0	2.0	1.0	4.5	3.0	8.0	6.0	9.0	7.0
10	16.0	14.5	9.5	9.0	2.5	0.5	5.0	4.0	7.5	6.5	9.0	7.5
11	15.5	14.0	9.0	8.5	2.0	1.0	6.0	4.5	6.5	6.0	9.0	6.5
12	15.0	13.0	9.0	7.5	2.5	0.5	7.5	6.0	5.5	5.5	6.5	5.5
13	15.0	13.0	7.5	6.5	3.0	1.5	7.0	6.0	7.5	6.5	6.5	5.5
14	14.5	13.0	8.0	7.0	2.5	1.0	7.0	5.0	7.0	6.0	7.5	4.5
15	14.5	13.0	8.0	7.5	3.5	1.5	7.5	5.5	7.0	5.5	8.0	5.0
16	13.5	12.0	8.0	7.5	5.0	3.0	8.0	7.0	7.5	5.5	9.0	6.0
17	14.0	12.0	8.5	7.5	7.0	5.0	7.0	6.0	8.0	5.5	9.0	7.5
18	14.5	12.0	8.0	7.0	7.0	6.0	7.5	6.5	8.0	6.0	8.5	6.5
19	13.5	12.5	8.0	7.0	7.5	5.5	6.5	5.0	8.5	6.0	8.5	6.0
20	13.0	12.5	7.5	7.0	8.0	7.0	5.0	3.5	8.5	6.0	8.5	6.5
21	14.0	12.5	7.0	6.0	7.5	6.5	5.0	4.0	8.0	7.0	6.5	5.0
22	14.0	12.0	8.0	6.5	7.5	6.5	5.0	4.0	9.0	6.5	6.5	4.5
23	14.5	12.0	7.0	5.5	7.5	6.5	4.5	3.0	9.0	7.0	8.0	5.0
24	14.5	12.5	6.0	5.0	7.0	6.0	5.5	3.5	9.0	8.0	9.5	6.0
25	14.0	12.0	6.5	4.5	7.0	6.0	5.5	4.5	8.5	6.5	9.5	7.5
26	13.0	11.5	7.0	6.0	6.0	4.5	6.0	5.0	8.0	6.5	9.0	8.5
27	13.0	11.5	7.5	6.5	5.5	4.5	5.5	4.5	9.0	7.0	8.5	7.5
28	12.5	10.5	7.0	6.0	6.0	5.0	5.5	4.0	9.0	8.0	8.0	5.5
29	12.0	10.5	7.0	6.0	5.0	3.0	6.0	4.5	---	---	7.0	4.0
30	10.5	9.0	6.5	5.0	4.0	2.5	7.0	5.5	---	---	7.5	6.0
31	9.5	8.0	---	---	3.5	2.0	7.5	6.5	---	---	10.0	7.0
MONTH	18.5	8.0	11.0	4.5	8.0	0.5	8.0	0.5	9.0	5.0	10.0	4.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	7.0	10.5	8.0	12.0	10.0	16.0	14.0	20.5	18.5	20.0	17.5
2	9.0	6.0	11.5	8.5	13.0	10.0	16.0	14.5	20.5	18.0	20.5	17.5
3	10.5	6.5	11.5	8.5	13.0	10.0	16.5	14.5	19.5	18.0	20.5	18.0
4	11.5	8.0	10.5	8.5	13.5	10.0	17.0	15.0	20.0	17.0	---	---
5	12.0	9.0	9.5	8.0	13.5	10.5	17.5	16.5	19.0	18.0	---	---
6	12.5	9.5	11.0	7.5	13.5	10.5	18.0	16.5	20.0	17.5	---	---
7	12.5	10.5	12.0	9.5	14.0	10.5	17.5	16.0	21.0	18.0	---	---
8	12.0	10.0	12.5	9.5	14.5	10.5	17.5	16.0	21.0	18.5	---	---
9	10.5	9.5	12.5	9.0	14.5	10.5	18.5	16.5	21.0	18.5	---	---
10	11.5	9.0	12.5	8.5	14.5	11.5	18.5	17.0	21.5	18.5	---	---
11	11.5	8.5	12.5	8.5	14.0	11.5	19.0	17.5	21.5	18.0	---	---
12	11.0	9.5	11.0	8.5	14.5	11.5	19.5	17.5	21.5	18.5	---	---
13	10.5	9.0	11.0	9.0	14.5	11.0	18.5	17.0	22.5	19.0	---	---
14	9.0	8.0	10.5	9.0	14.0	11.5	19.0	17.0	22.5	19.5	---	---
15	10.0	8.0	11.5	9.0	12.5	10.0	19.5	17.5	23.0	20.0	---	---
16	11.0	8.0	12.5	9.0	13.5	11.0	19.0	17.5	23.0	20.0	---	---
17	12.0	10.5	12.0	9.0	13.5	11.5	19.5	17.5	22.5	19.5	---	---
18	10.5	8.5	11.5	9.0	14.5	12.0	20.0	17.5	22.0	19.0	---	---
19	9.5	8.0	11.5	9.0	15.0	12.5	20.0	18.0	22.0	19.0	---	---
20	10.0	7.5	11.5	9.0	15.0	12.5	20.0	18.0	21.0	19.0	---	---
21	11.5	8.5	12.0	9.0	15.0	12.5	19.5	17.5	21.5	18.5	---	---
22	12.5	9.5	12.0	9.0	15.0	13.0	19.0	17.0	21.0	18.5	---	---
23	13.0	10.5	13.0	9.0	15.0	12.5	19.5	17.0	20.0	17.0	---	---
24	12.5	10.0	11.5	9.5	16.0	13.5	19.5	16.5	19.5	16.0	---	---
25	12.0	9.5	12.0	10.0	16.5	14.0	20.0	17.5	19.0	16.5	---	---
26	12.0	9.0	11.5	8.5	17.0	14.0	20.5	18.0	19.0	17.5	---	---
27	11.5	8.5	13.0	9.0	17.0	15.0	21.0	18.5	19.0	16.0	---	---
28	11.0	8.5	13.0	9.5	17.0	14.5	20.5	18.0	20.0	16.5	19.0	16.5
29	10.0	8.0	12.0	9.0	17.0	15.0	21.0	18.5	20.5	17.5	18.5	16.5
30	10.0	8.5	11.5	9.5	17.0	14.5	20.0	18.0	21.0	18.0	18.5	16.0
31	---	---	11.5	10.0	---	---	19.5	18.0	21.0	18.0	---	---
MONTH	13.0	6.0	13.0	7.5	17.0	10.0	21.0	14.0	23.0	16.0	---	---



## TULARE LAKE BASIN

1287

11216500 NORTH FORK KINGS RIVER ABOVE DINKEY CREEK, AT BALCH CAMP, CALIF.

LOCATION.--Lat 36°54'12", long 119°07'14", in SE $\frac{1}{4}$  sec.10, T.12 S., R.26 E., Fresno County, Sierra National Forest, temperature recorder at gaging station on left bank, 12 ft downstream from bridge at Balch Camp, 300 ft upstream from Dinkey Creek, and 9.3 miles east of Trimmer.

DRAINAGE AREA.--250 sq mi.

PERIOD OF RECORD.--Water temperatures: September 1967 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 20.0°C May 18; minimum, 1.5°C Dec. 14, and sometime during period Dec. 26 to Jan. 11.

Period of record:

Water temperatures: Maximum, 26.0°C June 22, 23, 25-27, 1968, July 14, 1972; minimum, freezing point

Dec. 14-16, 21, 1967.

REMARKS.--Clock stopped Oct. 24, 25, Dec. 26 to Jan. 11, Feb. 17-21, June 20-26; range in temperature 12.0°C to 15.0°C, 1.5°C to 7.5°C, 6.0°C to 9.5°C, and 9.0°C to 14.0°C, respectively.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	13.5	11.5	9.0	8.5	5.5	---	---	8.5	6.0	10.5	8.0
2	17.5	14.0	12.0	9.0	8.0	5.5	---	---	7.0	5.5	10.5	7.5
3	16.0	13.0	12.0	9.0	8.0	6.5	---	---	7.0	6.5	9.5	6.5
4	15.5	14.0	12.0	10.0	8.0	7.0	---	---	8.5	6.5	8.5	7.0
5	17.5	13.0	13.0	10.0	7.0	5.0	---	---	8.0	5.5	10.5	5.5
6	17.5	13.5	12.0	10.0	5.5	5.0	---	---	8.5	7.5	8.0	7.0
7	17.0	14.0	12.0	10.5	6.5	5.0	---	---	9.5	7.5	9.0	6.5
8	16.5	13.5	12.5	10.0	5.5	4.0	---	---	10.0	7.0	9.5	7.5
9	16.5	14.5	12.0	9.5	4.0	2.5	---	---	9.5	6.5	9.5	6.5
10	16.0	13.5	11.0	10.0	4.5	2.5	---	---	9.0	8.5	11.0	7.0
11	15.0	12.5	10.5	10.0	4.0	2.0	---	---	8.5	7.0	9.5	7.0
12	15.5	12.0	11.0	8.0	4.0	2.0	---	6.0	9.0	7.0	7.5	5.5
13	15.5	12.0	9.5	8.0	4.0	2.0	7.5	5.5	10.0	7.5	7.5	5.5
14	15.0	12.0	9.5	9.0	4.0	1.5	7.0	5.0	7.5	6.0	7.0	4.5
15	15.5	12.0	10.5	9.0	4.5	2.0	7.0	5.0	8.0	6.0	8.0	5.0
16	14.0	12.0	10.0	9.0	6.0	3.5	8.5	6.5	8.5	5.5	8.5	6.0
17	15.0	11.5	10.5	9.0	7.0	5.5	8.0	6.5	---	---	7.5	6.0
18	15.0	11.5	10.0	8.0	8.0	6.0	9.0	7.0	---	---	7.0	6.0
19	13.5	12.5	11.0	8.5	8.5	6.0	7.5	4.0	---	---	6.5	5.0
20	13.0	12.5	10.0	7.5	9.0	6.5	6.0	3.5	---	---	6.5	4.0
21	15.5	12.0	9.5	7.5	8.5	6.0	6.0	4.5	---	---	6.0	5.0
22	15.5	12.0	10.0	8.0	8.5	6.5	6.0	3.5	10.5	6.5	5.0	4.0
23	16.0	12.0	9.5	6.5	8.0	6.0	6.0	3.5	10.0	6.5	8.0	3.5
24	---	---	8.5	6.0	8.5	6.0	6.5	3.5	10.0	8.0	11.5	6.0
25	---	---	9.0	6.0	7.5	5.5	5.5	4.5	10.5	6.0	11.0	7.0
26	14.0	10.5	9.5	7.5	---	---	7.5	4.5	8.0	6.5	9.0	8.0
27	14.0	11.0	9.5	7.5	---	---	7.5	5.0	9.5	7.5	9.0	8.0
28	13.5	10.5	9.0	7.0	---	---	7.5	5.0	12.0	8.5	8.0	6.0
29	13.0	10.0	9.0	6.5	---	---	7.5	5.5	---	---	9.0	4.5
30	11.5	8.5	8.5	5.5	---	---	9.0	6.5	---	---	8.0	5.5
31	11.0	8.0	---	---	---	---	9.0	6.0	---	---	11.0	7.0
MONTH-	17.5	8.0	13.0	5.5	9.0	1.5	---	---	12.0	5.5	11.5	3.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	7.0	14.5	8.0	8.5	8.0	17.0	11.0	17.5	13.0	16.0	11.5
2	11.0	5.0	15.0	8.5	9.0	8.0	17.5	11.0	17.5	13.0	16.5	11.5
3	12.0	6.0	15.0	9.0	10.0	8.5	17.5	11.0	16.0	13.5	16.0	12.0
4	11.5	6.5	12.5	9.5	10.0	8.5	18.0	12.0	18.0	12.5	17.0	12.0
5	12.5	6.5	10.5	8.5	10.0	9.0	18.0	12.0	15.5	13.0	17.0	12.5
6	13.5	7.5	14.5	7.0	11.5	9.5	18.5	12.5	18.0	12.5	17.0	12.0
7	13.0	8.5	15.0	9.0	12.0	10.5	18.0	12.0	18.5	13.0	17.5	12.5
8	13.5	8.0	16.0	9.5	12.5	11.0	18.0	12.0	18.0	13.0	18.0	13.0
9	11.5	8.5	17.5	10.5	13.0	11.5	18.5	12.5	18.0	12.5	17.0	13.0
10	12.5	8.5	18.0	11.5	13.0	12.0	18.0	13.0	18.0	12.0	17.0	12.5
11	14.5	8.0	18.5	12.0	12.5	11.5	19.0	12.5	18.0	12.0	17.5	12.5
12	12.5	8.5	17.5	12.5	12.0	11.0	18.5	12.5	18.0	12.0	18.0	13.0
13	13.0	8.5	16.0	13.0	11.5	10.0	18.0	12.0	18.0	12.5	18.0	14.0
14	9.5	7.5	16.0	13.0	10.5	8.5	18.5	12.5	19.0	13.5	18.0	14.0
15	11.0	6.5	18.5	12.5	10.0	8.5	19.0	13.0	19.0	13.5	18.0	13.5
16	12.5	6.5	19.0	12.5	10.0	8.5	19.0	13.0	19.0	13.5	18.0	13.5
17	11.5	8.5	19.0	13.0	10.5	8.0	19.0	13.5	18.5	13.0	17.5	13.5
18	9.5	7.0	20.0	13.5	10.5	8.0	19.0	13.5	18.5	13.0	17.5	13.0
19	8.5	5.5	19.0	13.5	11.5	8.5	19.0	13.0	18.0	12.0	17.5	13.5
20	11.5	5.0	18.0	13.0	---	---	18.0	13.0	16.0	11.0	18.0	14.0
21	13.0	6.5	18.0	9.0	---	---	18.0	12.0	18.5	13.5	18.0	14.0
22	14.0	7.5	10.0	8.5	---	---	18.0	12.0	17.5	12.5	16.5	14.0
23	15.0	9.0	10.0	8.5	---	---	18.5	12.5	17.0	11.5	17.5	13.5
24	15.5	9.5	9.5	9.0	---	---	18.0	12.0	16.0	10.5	17.0	13.0
25	15.5	9.5	10.0	8.5	---	---	18.0	12.0	15.5	11.5	17.0	13.0
26	16.0	9.5	9.5	8.0	---	---	18.0	12.5	16.0	12.0	17.5	13.5
27	16.0	10.0	16.5	8.5	18.5	11.0	18.5	13.0	16.5	11.5	17.5	13.5
28	15.5	10.5	18.5	11.5	19.0	13.0	18.5	12.5	17.0	11.5	17.5	13.5
29	11.5	9.5	12.0	9.5	18.5	12.5	18.5	13.0	17.0	12.0	17.5	13.5
30	13.0	9.0	9.5	9.0	18.0	12.0	17.0	13.0	17.0	12.0	17.0	13.5
31	---	---	9.5	8.5	---	---	16.0	13.0	17.0	12.0	---	---
MONTH-	16.0	5.0	20.0	7.0	---	---	19.0	11.0	19.0	10.5	18.0	11.5

## TULARE LAKE BASIN

11218500 KINGS RIVER BELOW NORTH FORK, NEAR TRIMMER, CALIF.

LOCATION.--Lat 36°53'04", long 119°09'07", in NW¼SW¼ sec.16, T.12 S., R.26 E., Fresno County, on right bank 1 mile downstream from gaging station, 1.8 miles downstream from North Fork, 2.2 miles southwest of Balch Camp, and 7.7 miles southeast of Trimmer.

DRAINAGE AREA.--1,342 sq mi (at gaging station).

PERIOD OF RECORD.--Chemical analyses: October 1955 to July 1963, water years 1964-66 (partial-record station), October 1967 to September 1969, water year 1970 (partial-record station).

Water temperatures: October 1966 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 19.5°C Sept. 13, 28; minimum, 2.5°C Jan. 23.

Period of record:

Water temperatures: Maximum, 24.0°C July 31, 1971; minimum, freezing point on several days in 1966 and 1967.

REMARKS.--Temperature subject to fluctuation because of powerplant operation upstream. Recorder malfunction Apr. 25 to May 22. Stream temperature affected by backwater from Pine Flat Lake June 5 to July 6. Partial-record chemical-quality analyses published on p. 624.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	12.0	13.5	9.0	9.0	6.5	6.0	3.0	6.5	4.0	7.0	6.5
2	14.5	11.0	13.0	8.5	8.5	6.5	6.0	3.0	5.0	4.0	8.5	6.5
3	14.0	10.5	13.5	8.5	8.5	7.0	4.5	3.5	5.5	4.5	8.0	6.5
4	12.0	10.0	12.5	9.5	7.5	7.0	6.0	3.0	6.5	5.5	7.5	6.5
5	14.0	10.5	14.5	9.5	8.0	6.5	5.5	3.0	6.5	4.5	8.0	6.0
6	14.5	11.5	12.0	9.5	6.5	6.0	5.5	3.0	6.0	5.0	6.5	6.0
7	17.5	11.5	11.5	10.0	7.0	5.5	5.5	3.0	6.5	5.5	7.5	6.0
8	17.0	13.0	13.0	9.5	6.5	5.5	3.5	3.0	7.5	5.5	8.0	6.0
9	15.0	11.0	13.0	9.5	7.0	4.5	4.0	3.5	7.0	5.5	8.0	6.0
10	13.5	11.0	11.0	9.5	6.0	4.0	5.5	3.5	6.0	5.5	8.0	7.0
11	13.5	10.5	10.0	9.0	7.0	4.0	6.0	4.0	5.5	5.0	7.5	6.0
12	13.5	10.5	12.0	7.5	5.5	4.0	6.0	4.5	6.0	5.0	6.5	5.5
13	14.0	10.5	8.5	7.5	6.5	4.0	7.5	5.0	6.5	5.0	6.0	5.5
14	16.0	10.0	8.5	8.0	6.5	3.5	7.0	5.0	5.5	5.0	7.0	5.0
15	15.5	11.0	10.5	7.5	5.5	4.0	6.0	5.0	6.0	5.0	8.0	5.5
16	12.5	10.5	9.5	7.5	6.5	4.5	5.5	4.5	6.0	4.0	8.0	6.0
17	14.5	10.0	10.5	7.5	6.5	5.5	5.5	4.5	6.5	5.0	8.0	6.5
18	13.5	10.0	9.0	6.5	8.0	6.0	5.5	4.5	7.0	5.5	7.5	6.5
19	11.5	10.5	11.0	7.0	7.0	6.0	5.5	4.0	7.0	5.5	7.5	6.0
20	11.5	11.0	11.0	7.5	8.0	6.5	5.5	3.5	7.0	6.0	7.5	6.0
21	15.0	11.0	10.0	6.5	8.5	6.5	4.0	4.0	6.5	5.5	6.0	5.5
22	16.0	12.0	11.0	7.0	7.5	6.5	5.0	3.5	7.5	5.5	6.5	5.0
23	14.5	11.5	11.0	6.0	8.0	6.5	5.0	2.5	7.5	5.5	7.5	5.5
24	13.5	11.5	10.0	6.0	8.0	6.5	5.0	3.0	7.5	6.0	8.0	6.0
25	14.0	11.0	10.0	6.0	8.5	6.5	4.0	3.0	7.5	6.0	8.0	6.5
26	14.5	11.0	9.0	7.0	8.5	5.5	5.0	3.0	6.0	5.5	7.5	6.5
27	13.5	11.0	10.0	7.0	7.5	5.5	6.0	3.5	6.0	6.0	7.0	6.5
28	15.0	10.0	9.5	7.5	6.5	5.0	5.5	3.0	7.5	6.0	6.5	5.5
29	15.0	10.0	9.5	7.0	7.0	4.5	5.5	3.5	---	---	6.5	5.0
30	13.0	8.5	9.0	7.0	7.0	4.0	5.0	3.5	---	---	6.5	5.5
31	13.5	8.0	---	---	6.0	3.5	5.5	4.0	---	---	7.5	6.0
MONTH	17.5	8.0	14.5	6.0	9.0	3.5	7.5	2.5	7.5	4.0	8.5	5.0

APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.0	---	---	10.0	9.0	12.0	11.0	15.0	12.5	16.0	12.0
2	8.0	6.5	---	---	10.5	9.0	12.0	11.0	15.0	12.5	14.0	12.5
3	9.0	6.0	---	---	10.5	9.5	12.5	11.0	15.0	12.5	14.5	12.0
4	10.0	7.0	---	---	11.0	9.5	12.5	11.5	16.5	12.0	18.0	13.5
5	10.0	8.0	---	---	11.0	9.5	13.0	12.0	15.5	12.5	18.5	15.5
6	10.0	8.0	---	---	11.0	10.0	12.5	12.0	14.5	12.5	18.5	15.0
7	10.5	9.0	---	---	11.5	10.0	13.5	11.5	14.5	12.5	18.5	15.0
8	10.5	9.0	---	---	12.0	10.0	13.5	12.0	14.5	12.5	19.0	13.5
9	9.0	7.5	---	---	12.0	10.0	14.0	12.0	15.0	12.5	19.0	13.0
10	8.5	7.5	---	---	11.5	10.0	13.0	11.5	15.0	12.0	18.5	15.5
11	9.0	7.0	---	---	11.5	10.0	14.0	11.5	14.0	12.0	18.5	15.5
12	8.5	7.5	---	---	11.0	9.5	14.0	11.5	14.0	12.0	19.0	15.5
13	8.0	7.0	---	---	11.0	9.5	14.0	11.5	15.0	12.5	19.5	16.0
14	7.5	6.5	---	---	11.0	9.5	15.5	11.5	15.0	13.0	19.0	15.0
15	7.5	6.5	---	---	10.0	8.5	15.0	11.5	15.0	12.5	19.0	16.0
16	8.5	6.5	---	---	10.5	9.5	15.0	12.5	15.5	12.5	19.0	15.5
17	8.5	7.5	---	---	11.0	10.0	14.5	12.5	15.5	12.5	19.0	16.0
18	8.5	7.0	---	---	11.0	10.0	14.0	13.0	15.5	12.0	19.0	15.5
19	9.0	7.5	---	---	11.0	10.0	14.5	13.5	19.5	12.5	19.0	16.0
20	9.5	7.5	---	---	11.5	10.0	15.0	13.0	17.5	12.5	19.0	16.0
21	10.5	7.5	---	---	11.5	10.0	15.0	13.0	16.0	12.0	19.0	16.0
22	11.0	8.5	---	---	11.5	10.5	15.0	14.0	15.5	12.0	18.5	16.0
23	10.5	9.0	11.0	9.0	11.5	10.0	14.5	13.0	15.0	11.0	18.5	15.5
24	10.0	8.5	10.5	9.0	11.5	10.5	14.0	12.5	13.5	11.5	19.0	15.0
25	---	---	11.0	9.0	12.0	11.0	14.0	12.0	14.5	11.5	18.5	15.5
26	---	---	10.0	8.0	12.0	11.0	15.0	11.5	15.0	12.0	19.0	15.5
27	---	---	10.5	8.0	12.5	11.5	14.0	11.5	13.0	11.5	19.0	15.5
28	---	---	11.0	8.5	12.5	11.5	17.0	12.0	13.0	11.5	19.5	15.5
29	---	---	11.0	9.0	12.5	11.5	18.0	12.5	13.5	11.5	19.0	15.5
30	---	---	10.5	9.0	12.5	11.5	15.5	12.5	13.0	11.5	19.0	15.5
31	---	---	10.0	9.0	---	---	14.0	12.5	13.5	11.5	---	---
MONTH	11.0	6.0	---	---	12.5	8.5	18.0	11.0	19.5	11.0	19.5	12.0

## TULARE LAKE BASIN

289

## 11221500 KINGS RIVER BELOW PINE FLAT DAM, CALIF.

LOCATION.--Lat 36°49'50", long 119°20'07", in SW¼NW¼ sec.2, T.13 S., R.24 E., Fresno County, temperature recorder at gaging station on right bank, 3,200 ft downstream from Pine Flat Dam, and 2.9 miles northeast of Piedra.

DRAINAGE AREA.--1,545 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1955 to July 1963, water years 1964-66 (partial-record station).  
Water temperatures: October 1969 to September 1973.

## EXTREMES, 1972-73:

Water temperatures: Maximum, 22.5°C Oct. 5; minimum, 8.0°C on several days in April.

## Period of record:

Water temperatures: Maximum (1970-73), 23.0°C Sept. 5, 6, 1972; minimum, 7.0°C Dec. 23, 24, 26, 1970, Jan. 4, 1971.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	19.5	18.0	15.5	11.5	11.0	10.5	10.0	10.5	10.0	13.0	10.5
2	20.5	19.5	18.0	15.5	11.5	11.0	10.5	10.0	10.5	10.0	10.5	9.5
3	20.5	19.5	17.5	15.0	11.0	10.5	10.5	10.5	10.0	10.0	9.5	9.0
4	20.5	20.0	17.0	16.0	11.5	11.0	10.5	10.0	10.0	10.0	9.5	9.0
5	22.5	20.0	18.5	15.5	11.5	11.0	10.5	10.0	10.0	9.5	9.5	9.0
6	22.0	20.5	18.0	16.0	11.0	10.5	10.5	10.0	10.5	10.0	9.5	9.0
7	21.5	20.5	17.0	16.0	11.5	10.5	10.0	10.0	12.0	10.5	11.5	9.5
8	21.5	20.0	16.0	15.5	11.0	10.0	10.0	10.0	11.5	10.5	10.5	10.0
9	20.5	20.0	17.0	14.5	10.5	9.0	10.0	10.0	11.5	10.5	11.5	10.0
10	21.0	19.5	16.0	15.0	10.5	9.5	10.0	10.0	11.5	11.0	12.0	10.5
11	20.5	19.5	15.5	14.5	10.0	9.5	10.0	10.0	11.0	10.5	12.0	11.0
12	20.5	19.0	15.0	14.0	10.0	9.0	10.0	10.0	11.5	10.0	11.5	10.5
13	20.0	19.0	14.5	13.5	9.5	9.0	10.5	10.0	13.5	10.5	11.0	10.0
14	20.0	18.5	14.0	13.5	9.0	9.0	10.0	10.0	11.5	10.5	14.0	9.5
15	20.0	19.0	14.5	13.0	9.5	9.0	10.0	10.0	10.5	10.0	14.0	11.0
16	19.5	18.5	14.5	13.5	10.0	9.0	10.0	10.0	13.5	10.0	12.5	11.0
17	20.0	18.5	15.5	13.5	10.0	9.5	10.5	10.0	14.0	10.5	11.5	10.5
18	21.0	18.5	15.0	14.0	11.0	10.0	10.5	10.0	13.0	11.5	11.5	10.0
19	20.5	19.5	16.0	13.5	11.5	10.5	11.0	10.0	14.0	11.0	11.0	10.0
20	19.5	19.0	15.0	13.5	11.5	11.0	11.5	9.5	15.0	11.5	12.0	10.5
21	21.0	19.0	14.5	13.0	11.5	11.0	10.0	10.0	13.0	12.0	11.0	10.5
22	21.0	19.0	14.5	14.0	11.5	11.0	12.0	9.0	14.0	11.5	11.0	10.0
23	21.5	19.5	14.0	12.5	11.5	10.5	12.5	9.5	13.5	10.5	13.5	10.0
24	21.0	19.5	14.0	12.0	11.0	10.5	11.0	9.5	11.0	10.5	16.0	11.5
25	21.0	19.0	13.5	12.5	11.0	11.0	10.5	10.0	11.5	10.0	14.5	12.5
26	21.0	18.5	12.5	12.0	11.0	10.0	10.5	10.0	10.5	10.0	14.0	12.5
27	20.5	19.0	12.5	12.0	11.0	10.5	11.0	9.5	11.5	10.5	12.5	11.0
28	20.0	18.0	12.0	12.0	11.0	10.0	10.5	9.5	14.0	11.5	12.0	11.0
29	19.5	17.5	12.5	11.5	11.0	9.5	10.5	9.5	---	---	12.5	10.0
30	18.5	16.0	12.0	11.5	10.5	10.0	10.5	9.5	---	---	11.5	10.0
31	17.5	15.5	---	---	10.5	10.0	11.0	10.0	---	---	12.0	10.0
MONTH	22.5	15.5	18.5	11.5	11.5	9.0	12.5	9.0	15.0	9.5	16.0	9.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	9.5	8.5	8.5	14.0	10.0	17.5	16.5	11.5	11.5	13.0	13.0
2	12.0	9.0	8.5	8.5	14.5	14.0	17.5	16.5	11.5	11.5	13.5	13.0
3	12.0	9.0	9.0	8.5	15.5	14.5	17.5	16.5	11.5	11.5	13.5	13.0
4	11.0	9.5	9.0	8.5	16.0	14.5	18.0	17.0	12.0	11.5	13.5	13.5
5	10.5	9.5	9.0	8.5	16.5	15.0	18.0	17.0	12.0	12.0	13.5	13.5
6	10.0	8.5	9.0	9.0	16.5	15.5	18.0	16.5	12.0	12.0	14.0	13.5
7	9.5	9.0	9.0	9.0	17.0	15.5	17.5	16.5	12.0	12.0	14.0	13.5
8	9.5	8.5	9.0	9.0	16.5	15.5	18.0	17.0	12.0	12.0	14.0	13.5
9	9.0	8.5	9.5	9.0	16.5	15.5	18.0	17.5	12.0	12.0	14.0	13.5
10	9.0	8.5	9.5	9.0	16.5	15.5	18.5	17.5	12.0	12.0	14.0	13.5
11	9.0	8.5	9.5	9.5	15.5	14.5	18.5	17.5	12.0	12.0	14.0	14.0
12	8.5	8.5	9.5	9.5	15.5	14.5	18.5	17.5	12.0	12.0	14.0	14.0
13	8.5	8.5	9.5	9.5	15.0	14.5	18.5	17.5	12.0	12.0	14.0	14.0
14	8.5	8.5	9.5	9.5	14.5	13.5	18.5	17.0	12.5	12.0	14.0	14.0
15	8.5	8.5	10.0	9.5	14.5	14.0	18.0	17.0	12.5	12.0	14.0	14.0
16	8.5	8.5	10.0	9.5	14.5	14.0	18.0	12.0	12.5	12.0	14.0	14.0
17	8.5	8.5	10.0	9.5	14.5	13.5	12.0	12.0	12.5	12.0	14.5	14.0
18	8.5	8.5	10.0	10.0	15.0	14.0	12.0	11.5	12.5	12.5	14.5	14.0
19	8.5	8.0	10.0	10.0	16.0	15.0	11.5	11.5	12.5	12.5	14.5	14.5
20	8.5	8.0	10.0	10.0	16.0	15.5	11.5	11.0	12.5	12.5	14.5	14.5
21	8.5	8.0	10.0	10.0	17.0	16.0	11.5	11.0	12.5	12.5	14.5	14.5
22	8.5	8.0	10.0	10.0	16.5	16.0	11.5	11.0	12.5	12.5	15.0	14.5
23	8.5	8.0	10.0	10.0	16.5	15.5	11.5	11.0	12.5	12.5	14.5	14.5
24	8.5	8.0	10.0	10.0	16.0	15.5	11.0	11.0	13.0	12.5	15.0	14.5
25	8.5	8.5	10.0	10.0	16.5	16.0	11.0	11.0	13.0	12.5	15.0	14.5
26	8.5	8.5	10.0	9.5	16.5	16.0	11.5	11.0	13.0	12.5	15.0	14.5
27	8.5	8.5	10.0	10.0	16.5	16.0	11.5	11.5	13.0	12.5	15.0	14.5
28	8.5	8.0	10.0	10.0	17.0	16.5	11.5	11.5	13.0	12.5	15.0	14.5
29	8.5	8.0	10.0	10.0	17.0	16.0	11.5	11.5	13.0	12.5	14.5	14.5
30	8.5	8.5	10.0	9.0	17.0	16.0	11.5	11.5	13.0	12.5	15.0	14.5
31	---	---	10.0	9.0	---	---	11.5	11.5	13.0	13.0	---	---
MONTH	12.0	8.0	10.0	8.5	17.0	10.0	18.5	11.0	13.0	11.5	15.0	13.0

## SAN JOAQUIN RIVER BASIN

11247000 SAN JOAQUIN RIVER BELOW KERCKHOFF POWERHOUSE, NEAR PRATHER, CALIF.

LOCATION.--Lat 37°04'45", long 119°33'36", in NE¼NW¼ sec.10, T.10 S., R.22 E., Fresno County, temperature recorder at gaging station on left bank, 1.1 miles downstream from Kerckhoff powerhouse, 1.4 miles upstream from Big Sandy Creek, and 3.8 miles southeast of Prather.

DRAINAGE AREA.--1,480 sq mi.

PERIOD OF RECORD.--Water temperatures: November 1960 to September 1968, January 1970 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 18.5°C Oct. 1, 2; minimum, 5.5°C on many days during January to March.

Period of record:

Water temperatures: Maximum (1960-66, 1967-68, 1970-73), 29.0°C Sept. 1, 2, 1968; minimum (1960-68, 1970-73), 2.0°C Jan. 29, 1968.

REMARKS.--Ten temperature observations and recorder chart furnished by Southern California Edison Co.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	18.0	15.0	14.5	10.0	9.5	6.5	6.0	5.5	5.5	6.0	6.0
2	18.5	18.0	14.5	14.5	9.5	9.5	6.0	6.0	7.0	5.5	6.0	6.0
3	18.0	18.0	14.5	14.5	9.5	9.5	6.0	6.0	5.5	5.5	6.5	6.0
4	18.0	18.0	14.5	14.0	9.5	9.0	6.5	6.0	5.5	5.5	6.5	6.0
5	18.0	17.5	14.0	14.0	9.5	9.0	6.0	5.5	5.5	5.5	6.5	6.0
6	18.0	17.5	14.0	14.0	9.0	8.5	6.0	5.5	5.5	5.5	6.5	6.0
7	17.5	17.5	14.0	14.0	8.5	8.5	6.0	6.0	5.5	5.5	6.5	6.0
8	17.5	17.5	14.0	13.5	8.5	8.5	6.0	5.5	5.5	5.5	6.5	6.0
9	17.5	17.5	13.5	13.0	9.0	8.0	6.0	5.5	6.5	5.5	6.0	6.0
10	17.5	17.0	13.0	13.0	8.0	7.5	6.5	5.5	6.0	6.0	6.0	6.0
11	17.5	17.0	13.0	13.0	8.0	7.5	6.0	5.5	6.5	6.0	6.0	6.0
12	17.5	17.0	13.0	12.5	7.5	7.5	6.0	6.0	7.0	6.5	6.0	6.0
13	17.0	17.0	12.5	12.5	8.0	7.5	6.5	5.5	7.0	6.5	6.0	6.0
14	17.0	17.0	12.5	12.5	8.0	7.5	6.5	5.5	6.5	6.5	6.0	6.0
15	17.5	17.0	12.5	12.5	7.5	7.0	6.5	5.5	6.5	6.5	6.0	5.5
16	17.5	17.0	12.5	12.5	7.5	7.0	6.5	5.5	6.5	6.5	5.5	5.5
17	17.5	17.0	12.5	12.0	7.5	7.0	6.5	6.5	6.5	6.0	6.0	5.5
18	17.5	17.0	12.5	12.0	7.0	7.0	6.5	6.0	6.5	6.0	6.0	6.0
19	17.5	17.0	12.0	11.5	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0
20	17.0	16.5	11.5	11.5	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0
21	16.5	16.5	11.5	11.5	7.0	7.0	6.0	6.0	6.0	6.0	6.0	6.0
22	16.5	16.5	11.5	11.0	8.0	7.0	6.0	6.0	6.0	6.0	6.5	6.0
23	16.5	16.0	11.0	10.5	8.0	7.0	6.0	5.5	6.0	6.0	6.5	6.0
24	16.0	16.0	11.0	10.5	8.0	7.0	5.5	5.5	6.0	6.0	6.5	6.0
25	16.0	16.0	10.5	10.5	8.0	7.0	7.0	5.5	6.0	6.0	6.5	6.0
26	16.0	15.5	10.5	10.5	7.5	6.5	6.0	6.0	6.0	6.0	6.5	6.5
27	16.0	15.5	10.5	10.5	7.0	6.5	6.0	5.5	6.0	6.0	6.5	6.5
28	15.5	15.5	10.5	10.0	7.5	6.5	5.5	5.5	6.0	6.0	6.5	6.5
29	15.5	15.0	10.0	9.5	7.0	6.5	5.5	5.5	---	---	6.5	6.5
30	15.0	14.5	10.0	9.5	7.0	6.0	5.5	5.5	---	---	6.5	6.5
31	15.0	14.5	---	---	7.0	6.0	5.5	5.5	---	---	6.5	6.5
MONTH	18.5	14.5	15.0	9.5	10.0	6.0	7.0	5.5	7.0	5.5	6.5	5.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	6.5	9.5	9.0	11.5	11.5	14.5	14.5	15.0	14.5	17.0	17.0
2	7.0	6.5	9.5	9.0	11.5	11.5	14.5	14.5	15.0	14.5	17.0	17.0
3	7.0	7.0	9.5	9.5	12.0	11.5	14.5	14.0	15.5	14.5	17.0	17.0
4	7.0	7.0	9.5	9.5	12.0	11.5	14.5	14.0	15.5	15.0	17.0	17.0
5	7.5	7.0	9.5	9.0	12.0	12.0	14.0	13.5	15.5	15.0	17.0	17.0
6	7.5	7.0	9.5	9.0	12.5	12.0	14.0	13.5	16.5	15.0	18.0	17.0
7	7.5	7.5	9.0	9.0	12.5	12.0	14.0	13.5	16.5	15.0	18.0	17.5
8	8.0	8.0	9.0	8.5	13.0	12.5	14.0	13.5	15.5	15.5	18.0	17.5
9	8.5	8.0	9.0	9.0	13.0	12.5	14.0	13.5	16.0	15.5	17.5	17.5
10	8.5	8.0	9.5	9.0	13.0	12.5	13.5	13.5	16.0	15.5	17.5	17.5
11	8.5	8.0	10.5	9.5	13.0	13.0	13.5	13.0	15.5	15.0	17.5	17.5
12	9.0	8.5	10.5	10.0	13.0	13.0	13.5	13.0	15.5	15.0	17.0	17.0
13	9.0	8.5	10.5	10.5	13.0	12.5	13.5	13.0	15.5	15.0	17.0	17.0
14	8.5	8.5	10.5	10.0	13.0	13.0	13.5	13.0	15.5	15.0	17.5	17.0
15	8.5	8.0	10.0	10.0	13.0	12.5	13.5	13.5	16.0	15.5	17.5	17.5
16	8.0	8.0	10.5	10.0	13.0	12.5	13.5	13.5	16.0	15.5	17.5	17.0
17	8.5	8.0	10.5	10.5	13.0	13.0	14.0	13.5	16.0	15.5	17.5	17.0
18	8.5	8.0	10.5	10.5	13.0	12.5	14.0	14.0	16.0	15.5	18.0	17.5
19	8.5	8.0	11.0	10.5	13.0	12.5	14.0	14.0	16.0	16.0	18.0	17.5
20	8.5	8.0	11.0	10.5	13.0	12.5	14.5	14.0	16.5	16.0	17.5	17.0
21	8.5	8.0	11.0	10.5	13.5	13.0	14.5	14.0	17.0	16.0	18.0	17.5
22	8.5	8.0	11.0	10.5	13.5	13.0	14.5	14.0	17.0	16.5	17.5	17.5
23	8.5	8.0	11.0	10.5	13.5	13.5	14.0	14.0	16.5	16.0	17.5	17.5
24	9.0	8.5	11.0	11.0	13.5	13.5	14.0	14.0	16.5	16.5	17.5	17.5
25	9.0	8.5	11.0	11.0	13.5	13.5	14.0	14.0	16.5	16.5	17.5	17.5
26	9.5	9.0	11.0	11.0	13.5	13.5	14.5	14.0	16.5	16.5	17.5	17.0
27	9.5	9.0	11.0	10.5	14.0	13.5	14.5	14.5	16.5	16.5	18.0	17.5
28	10.0	9.5	11.0	11.0	14.5	14.0	15.0	14.5	16.5	16.5	18.0	17.5
29	10.0	9.5	11.5	11.0	14.5	14.5	15.0	15.0	17.0	16.5	18.0	17.5
30	9.5	9.5	11.5	11.5	14.5	14.5	15.0	15.0	17.0	16.5	18.0	17.5
31	---	---	11.5	11.5	---	---	15.0	14.5	17.0	16.5	---	---
MONTH	10.0	6.5	11.5	8.5	14.5	11.5	15.0	13.0	17.0	14.5	18.0	17.0

## SAN JOAQUIN RIVER BASIN

291

11257500 FRESNO RIVER NEAR KNOWLES, CALIF.

LOCATION.--Lat 37°14'14", long 119°46'26", in SE¼NW¼ sec.15, T.8 S., R.20 E., Madera County, temperature recorder at gaging station on left bank at Fresno Crossing, 0.1 mile downstream from Bean Gulch, and 6 miles northeast of Knowles.

DRAINAGE AREA.--133 sq mi.

PERIOD OF RECORD.--Water temperatures: July 1971 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 31.0°C Aug. 15; minimum, freezing point Jan. 5, 7.

Period of record:

Water temperatures: Maximum, 33.0°C Aug. 11, 1971; minimum, freezing point Jan. 5, 7, 1973.

REMARKS.--Recorder malfunction Dec. 21-27, Feb. 3-9, 13-16.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.5	12.0	8.5	7.0	5.5	4.0	1.0	9.5	6.0	9.5	8.0
2	20.5	17.0	12.0	8.0	6.0	4.5	4.0	0.5	7.0	6.0	10.0	7.5
3	20.5	16.5	12.0	8.0	6.0	5.0	5.5	3.0	---	---	9.5	8.0
4	21.5	17.5	12.0	10.5	7.0	5.5	3.5	1.5	---	---	9.0	7.0
5	19.0	19.0	13.0	9.5	5.5	3.0	3.0	0.0	---	---	8.5	6.5
6	19.5	16.0	12.0	9.5	4.0	3.0	2.5	0.5	---	---	8.0	7.5
7	21.5	17.0	11.5	10.5	4.5	3.0	3.0	0.0	---	---	8.0	7.5
8	19.5	19.5	12.0	8.5	4.0	2.0	4.0	1.5	---	---	8.5	8.0
9	19.5	17.5	12.0	9.5	2.5	0.5	5.0	4.0	---	---	9.0	7.5
10	19.5	16.5	11.5	10.0	2.5	0.5	6.0	4.5	8.5	8.0	10.0	8.5
11	19.5	15.5	10.5	9.0	2.0	0.5	8.0	6.0	8.5	6.5	10.0	8.0
12	18.5	14.5	10.5	7.5	2.0	0.5	10.5	8.0	7.5	6.5	8.0	6.5
13	18.5	14.0	9.0	8.0	1.5	0.5	10.0	7.5	---	---	8.5	6.5
14	17.5	13.5	9.5	9.0	2.0	0.5	9.0	6.0	---	---	8.0	5.5
15	17.0	15.0	10.0	8.5	2.5	0.5	9.5	6.5	---	---	9.0	6.0
16	16.0	13.5	10.0	9.0	4.0	1.0	10.0	8.5	---	---	10.0	7.0
17	16.0	14.0	11.0	8.5	5.5	4.0	8.0	6.5	9.0	7.0	9.5	8.0
18	17.0	13.5	10.5	8.5	5.5	3.5	8.0	7.0	8.5	7.0	9.0	6.5
19	16.0	14.5	11.5	9.0	7.5	5.0	7.5	5.0	9.5	7.0	8.5	6.5
20	16.0	14.5	10.0	7.0	8.0	7.0	5.0	3.5	9.5	7.5	8.5	6.5
21	17.5	14.5	9.5	7.0	---	---	5.0	4.5	9.0	8.0	7.5	5.5
22	17.0	13.0	10.0	7.5	---	---	6.5	4.0	9.5	7.5	7.5	7.0
23	15.5	13.0	9.0	6.5	---	---	6.0	3.0	9.0	7.5	9.5	6.5
24	16.0	12.0	8.5	5.5	---	---	5.5	3.5	10.0	9.0	10.5	7.5
25	16.0	12.0	8.5	5.5	---	---	6.5	5.0	9.5	7.5	11.0	8.0
26	15.0	11.5	8.0	7.5	---	---	7.0	4.0	9.0	7.5	11.0	8.5
27	15.0	11.5	9.0	7.0	---	---	7.5	5.0	9.0	8.0	9.5	8.5
28	15.0	11.0	8.5	7.5	6.5	4.5	6.5	4.0	10.0	8.0	9.5	8.0
29	13.0	10.0	9.0	7.0	5.0	2.5	5.5	3.5	---	---	9.5	6.0
30	11.5	8.0	8.0	5.5	5.0	2.0	7.5	4.5	---	---	9.5	7.5
31	11.0	7.0	---	---	4.0	1.5	9.0	5.0	---	---	11.5	9.0
MONTH	21.5	7.0	13.0	5.5	---	---	10.5	0.0	---	---	11.5	5.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	8.5	15.0	10.5	19.0	17.0	27.0	19.5	30.5	23.0	26.5	18.5
2	11.0	7.5	16.5	11.5	19.5	15.0	27.5	19.5	30.5	22.5	27.0	18.5
3	12.0	8.0	16.0	12.5	20.5	15.5	28.0	20.5	29.5	22.5	26.0	18.5
4	13.5	9.0	15.0	12.0	21.0	16.5	28.5	21.0	30.0	23.5	26.5	18.5
5	14.0	10.0	12.5	10.0	21.0	17.0	29.5	21.5	29.0	23.5	26.0	19.0
6	15.0	11.0	15.0	9.0	22.0	17.0	29.0	21.5	30.0	22.5	26.0	18.5
7	15.0	11.5	16.5	11.5	22.5	18.0	29.0	20.0	29.5	22.0	26.0	18.0
8	14.5	11.5	17.0	12.5	23.0	18.5	29.0	20.0	29.0	21.0	25.5	18.0
9	13.0	11.0	18.0	13.0	22.5	19.0	30.5	21.5	28.5	20.5	26.0	17.5
10	14.5	11.5	18.5	13.5	22.0	18.5	30.5	22.5	28.5	20.0	25.5	18.0
11	15.5	11.5	19.5	14.5	22.0	18.0	30.0	22.0	29.0	20.5	25.5	17.5
12	14.5	12.0	19.5	15.0	22.5	18.5	30.0	21.0	29.5	21.0	26.0	19.0
13	13.0	11.5	19.0	15.5	21.0	18.5	29.5	21.0	30.0	21.5	26.0	19.5
14	12.0	9.5	19.0	15.0	19.5	16.0	30.0	22.0	30.5	22.5	25.5	19.0
15	11.5	10.0	19.5	15.0	19.0	14.5	29.5	22.0	31.0	23.0	25.0	17.5
16	14.0	9.0	19.5	15.5	20.0	15.5	29.5	22.0	30.0	22.0	25.0	17.0
17	14.5	12.0	21.0	16.0	21.0	16.0	29.5	22.0	29.5	21.0	24.0	17.0
18	13.0	10.0	21.5	16.5	21.5	16.0	29.5	22.5	29.5	20.5	24.0	16.5
19	12.0	9.0	21.0	16.5	22.5	17.0	29.5	22.0	30.0	21.5	24.5	17.0
20	12.5	8.5	18.5	15.5	24.0	18.5	28.0	21.0	29.5	20.0	24.5	17.5
21	13.5	10.0	18.5	13.5	25.0	19.5	28.0	19.5	29.5	21.5	24.0	17.0
22	15.0	11.0	19.5	14.0	24.5	20.0	28.5	20.0	28.0	19.0	21.0	17.0
23	16.0	12.0	20.0	15.0	23.0	19.0	28.5	20.0	26.0	17.5	22.5	16.0
24	17.0	12.5	17.5	15.0	24.5	19.0	28.5	18.5	25.5	17.0	22.0	15.5
25	17.5	13.0	18.0	14.5	26.0	20.0	29.5	20.0	22.5	18.0	21.5	15.0
26	17.5	13.5	17.0	13.0	28.0	21.5	30.0	21.5	24.0	17.5	22.5	15.5
27	17.5	13.5	18.5	13.0	29.5	24.0	30.0	21.5	25.0	17.5	23.0	15.5
28	17.0	13.5	20.5	15.0	30.0	24.0	30.0	22.5	26.0	18.0	22.5	15.5
29	14.5	12.0	21.5	16.5	29.0	22.5	30.5	22.5	27.0	19.0	23.0	16.0
30	14.5	11.0	20.0	17.5	28.0	21.0	30.0	22.0	27.5	20.0	22.0	16.0
31	---	---	20.0	17.0	---	---	30.5	22.5	26.5	19.0	---	---
MONTH	17.5	7.5	21.5	9.0	30.0	14.5	30.5	18.5	31.0	17.0	27.0	15.0

## SAN JOAQUIN RIVER BASIN

11258980 CHOWCHILLA RIVER NEAR RAYMOND, CALIF.

LOCATION.--Lat 37°15'36", long 119°56'43", in SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec.1, T.8 S., R.18 E., Madera County, temperature recorder at gaging station on right bank, 20 ft downstream from County Road 613 bridge, 2,300 ft downstream from Chapman Creek, and 3.8 miles northwest of Raymond.

DRAINAGE AREA.--201 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum recorded, 34.5°C June 28; minimum, 1.0°C Dec. 12.

Period of record:

Water temperatures: Maximum recorded, 34.5°C June 28, 1973; minimum, 1.0°C Dec. 12, 1972.

REMARKS.--Recorder malfunction Apr. 25, 26, May 4-30, June 14-21, 27, July 30 to Aug. 30.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	20.0	19.0	16.0	11.0	8.5	9.0	5.0	10.0	7.0	12.0	10.5
2	22.0	19.5	19.0	16.0	9.5	8.5	9.5	5.0	9.5	7.5	12.5	10.5
3	22.5	19.0	20.0	15.5	8.5	8.0	11.5	8.0	9.0	8.5	12.5	10.5
4	22.5	20.0	19.0	16.5	10.0	7.0	10.5	6.0	11.0	9.0	11.0	9.5
5	23.0	19.0	20.0	17.0	7.5	5.5	9.0	4.5	10.0	8.0	11.5	8.0
6	23.5	19.0	19.5	16.5	6.5	5.0	8.0	4.0	10.0	9.0	10.5	9.0
7	22.0	19.5	18.5	16.5	8.0	6.0	7.5	3.0	10.5	9.0	10.0	8.0
8	22.5	19.0	19.0	16.0	8.0	4.0	7.0	5.0	11.5	8.5	11.5	9.5
9	21.5	20.0	19.0	16.0	5.5	2.0	8.0	6.5	11.5	8.5	12.5	10.0
10	21.0	19.5	18.0	17.0	5.0	2.5	8.5	7.0	10.5	10.0	13.5	10.5
11	22.0	19.0	16.0	12.0	5.0	1.5	10.0	7.5	10.0	8.5	13.0	10.0
12	21.5	18.5	16.5	13.0	4.5	1.0	11.5	9.0	9.5	8.0	11.0	8.0
13	21.5	18.5	15.0	13.0	3.0	1.5	12.0	9.0	11.0	9.0	12.0	8.5
14	21.0	18.0	14.5	12.0	3.5	2.0	10.5	8.5	9.5	8.5	11.5	7.5
15	21.5	19.0	12.5	10.5	5.0	2.5	11.5	8.0	9.0	7.5	12.0	8.0
16	21.0	18.5	11.5	10.0	6.0	2.5	11.0	10.0	10.5	8.5	13.5	9.0
17	22.0	18.5	13.0	10.0	7.5	5.5	10.0	9.0	10.0	8.5	13.0	11.0
18	21.5	18.0	12.0	9.0	8.0	7.0	10.0	9.5	10.5	8.5	13.0	9.0
19	20.0	18.5	14.0	10.0	11.0	7.5	9.0	7.0	11.0	8.0	11.5	9.5
20	20.5	19.0	12.5	8.0	11.0	8.5	7.0	5.5	11.5	8.5	11.0	9.0
21	21.5	19.0	11.5	8.0	12.5	10.0	7.0	6.0	11.0	9.0	9.0	8.0
22	21.5	18.0	11.5	9.0	12.0	9.5	8.5	6.0	12.0	8.5	9.5	8.0
23	20.0	17.5	12.0	8.0	11.0	7.5	8.0	5.5	11.5	8.5	12.0	8.5
24	20.0	17.5	11.5	7.0	11.5	8.5	7.5	5.0	13.0	10.5	14.5	10.0
25	21.0	17.5	11.0	9.0	11.5	9.0	8.0	6.5	12.5	9.5	14.0	11.0
26	20.5	17.0	10.5	9.5	10.5	6.5	8.5	6.0	10.5	9.5	13.0	11.0
27	20.0	16.5	9.5	9.5	6.5	6.5	9.5	6.5	11.0	9.5	12.0	11.0
28	20.0	16.0	11.0	10.0	10.5	7.0	9.0	6.0	12.0	10.0	13.0	10.0
29	19.0	15.0	12.5	9.5	9.5	5.5	7.5	5.5	---	---	11.5	8.5
30	18.0	14.0	10.5	9.0	9.0	5.0	6.5	6.5	---	---	12.0	9.5
31	18.0	13.5	---	---	9.0	5.0	10.0	7.0	---	---	13.5	11.0
MONTH	23.5	13.5	20.0	7.0	12.5	1.0	12.0	3.0	13.0	7.0	14.5	7.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	10.0	22.0	15.0	26.0	21.5	31.0	20.5	---	---	24.5	21.0
2	14.5	9.5	23.0	16.0	28.5	20.5	31.5	21.0	---	---	24.5	21.0
3	15.5	10.0	22.5	17.0	29.0	20.5	31.5	21.5	---	---	24.0	20.5
4	17.0	11.5	---	---	30.0	21.0	32.5	21.5	---	---	24.5	20.5
5	18.0	12.5	---	---	28.5	21.5	32.5	23.0	---	---	24.0	21.0
6	18.5	13.5	---	---	31.0	21.5	31.5	22.5	---	---	24.0	21.0
7	19.5	14.5	---	---	31.5	22.0	31.5	21.5	---	---	24.5	20.5
8	19.5	15.0	---	---	32.0	22.5	31.5	22.0	---	---	24.0	20.5
9	17.0	14.5	---	---	31.5	23.0	33.0	23.0	---	---	24.0	20.5
10	19.0	14.5	---	---	30.0	22.5	32.5	23.0	---	---	24.0	20.5
11	21.0	15.5	---	---	30.0	21.0	32.0	23.0	---	---	24.0	20.5
12	20.0	16.0	---	---	30.5	21.5	31.5	22.5	---	---	24.0	20.5
13	18.0	14.5	---	---	28.5	21.0	31.0	23.0	---	---	24.5	21.0
14	14.5	13.5	---	---	---	---	31.0	24.5	---	---	24.0	21.0
15	16.5	13.0	---	---	---	---	30.5	24.0	---	---	23.5	20.0
16	18.0	12.0	---	---	---	---	31.0	24.0	---	---	23.5	20.0
17	18.5	15.0	---	---	---	---	30.0	24.0	---	---	23.5	20.0
18	18.0	13.0	---	---	---	---	30.0	24.5	---	---	24.0	20.0
19	17.5	13.0	---	---	---	---	29.5	23.5	---	---	24.0	20.5
20	17.5	12.0	---	---	---	---	28.5	22.5	---	---	24.0	20.5
21	18.5	12.5	---	---	---	---	28.5	21.5	---	---	23.5	20.5
22	20.0	14.0	---	---	30.5	22.5	29.5	22.0	---	---	22.5	20.0
23	19.5	19.0	---	---	28.5	21.5	29.0	22.0	---	---	23.5	20.0
24	22.5	19.5	---	---	31.0	21.0	29.0	21.0	---	---	23.5	19.5
25	---	---	---	---	32.0	21.5	30.0	22.5	---	---	23.0	19.5
26	---	---	---	---	33.0	23.5	30.0	23.5	---	---	23.5	19.5
27	24.5	18.5	---	---	---	---	28.5	23.0	---	---	23.5	19.5
28	23.5	18.0	---	---	34.5	25.5	27.0	25.5	---	---	23.5	19.5
29	22.0	16.5	---	---	32.5	24.0	26.0	23.5	---	---	23.5	19.5
30	20.5	15.5	---	---	31.0	22.0	---	---	---	---	23.0	19.5
31	---	---	27.5	22.0	---	---	---	---	24.5	21.0	---	---
MONTH	24.5	9.5	---	---	---	---	33.0	20.5	---	---	24.5	19.5

11264500 MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.  
(Hydrologic bench-mark and radiochemical station)

LOCATION.--Lat 37°43'54", long 119°33'28", (unsurveyed), Mariposa County, Yosemite National Park, at gaging station on right bank, 10 ft downstream from footbridge at Happy Isles, 0.4 mile downstream from Illilouette Creek, and 2.0 miles southeast of Yosemite National Park headquarters.

DRAINAGE AREA.--181 sq mi.

PERIOD OF RECORD.--Chemical analyses: March 1968 to September 1973.

Water temperatures: October 1965 to September 1973.

Sediment records: Water years 1970-71, 1973 (partial-record station).

EXTREMES, 1972-73:

Water temperatures: Maximum, 17.5°C on several days during July and August; minimum, 0.5°C on many days during December, January, March, and April.

Period of record:

Water temperatures: Maximum (1966-73), 18.5°C July 30, 31, Aug. 10, 1971, July 16, 1972; minimum, freezing point on many days during winter period most years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT.											
12...	1200	68	--	60	6.4	2.3	.2	1.8	.4	9	0
NOV.											
21...	1100	64	--	70	5.8	2.8	.2	2.6	.2	9	0
JAN.											
08...	1100	68	--	40	9.4	3.0	.2	2.7	.4	10	0
FEB.											
22...	1300	96	--	60	8.7	3.6	.3	2.1	.3	14	0
APR.											
19...	0900	343	--	50	8.1	2.0	.2	1.5	.3	9	0
MAY											
29...	1510	2520	250	70	4.7	.9	.2	.7	.2	5	0
JULY											
03...	1630	483	60	50	.9	.9	.1	.6	.2	5	0
04...	0840	470	70	30	3.9	1.6	.1	.1	.2	6	0
05...	0745	470	70	20	3.8	1.1	.1	.7	.2	11	0
AUG.											
08...	0915	261	--	40	4.0	1.5	.2	1.3	.3	6	0
SEP.											
02...	1510	25	110	60	8.0	2.9	.2	2.7	.4	7	0
03...	0825	21	130	120	8.6	4.0	.2	2.5	.4	16	0
04...	0805	21	100	50	7.2	2.8	.2	3.2	.5	16	0

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)
OCT.										
12...	7	4.4	2.7	.2	--	--	--	.01	--	.05
NOV.										
21...	7	4.9	3.6	.0	--	--	--	.01	--	.04
JAN.										
08...	8	1.1	4.5	.0	--	--	--	.04	--	.01
FEB.										
22...	11	1.1	3.3	.1	--	--	.02	.02	.05	--
APR.										
19...	7	.9	1.4	.0	--	--	.03	.01	.08	--
MAY										
29...	4	1.8	1.3	.1	--	--	.05	.01	.01	--
JULY										
03...	4	1.5	.3	--	--	--	.01	--	.01	--
04...	5	1.6	.3	--	--	--	.01	.00	.02	--
05...	9	.9	.5	--	--	--	.02	.00	.02	--
AUG.										
08...	5	3.0	1.3	.0	--	--	.24	.12	.07	--
SEP.										
02...	4	1.8	2.6	--	.16	.01	--	.17	.04	--
03...	13	1.3	3.1	--	.44	.01	--	.45	.03	--
04...	13	1.1	3.8	--	.09	.00	--	.09	.07	--

## SAN JOAQUIN RIVER BASIN

11264500 MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJFL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)
OCT.										
12...	.01	.06	.07	.03	.03	31	23	.04	5.73	7
NOV.										
21...	--	.12	.13	.02	.00	51	25	.07	8.58	8
JAN.										
08...	--	.06	.10	.04	.00	36	27	.05	5.93	8
FEB.										
22...	.09	.14	.16	.02	.00	--	27	.04	7.14	10
APR.										
19...	.06	.14	.17	.01	.01	--	19	.03	17.3	6
MAY										
29...	.13	.14	.19	.00	.00	25	12	.03	169	3
JULY										
03...	.47	.48	.49	.00	.00	19	11	.03	24.8	3
04...	.08	.10	.11	.02	.00	21	11	.03	26.6	4
05...	.05	.07	.09	.01	.00	21	13	.03	26.6	3
AUG.										
08...	.17	.24	.48	.01	.01	--	15	.02	10.6	5
SEP.										
02...	.08	.12	--	.01	.01	34	23	.05	1.93	8
03...	.06	.09	--	.01	.01	30	30	.04	1.70	11
04...	.00	.03	--	.01	.01	34	27	.05	1.84	8

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.										
12...	0	36	.3	--	6.8	7.5	11.0	.6	--	--
NOV.										
21...	0	41	.4	--	6.7	1.5	14.0	.6	92	--
JAN.										
08...	0	40	.4	--	6.9	1.0	14.0	--	--	--
FEB.										
22...	0	30	.3	--	6.7	1.5	13.2	.4	--	--
APR.										
19...	0	35	.3	22	6.6	2.0	13.5	.7	--	--
MAY										
29...	0	31	.2	--	6.4	10.0	9.9	.4	--	2.0
JULY										
03...	0	31	.2	--	6.5	15.5	8.8	.5	21	2.5
04...	0	4	.0	--	6.6	11.5	9.5	--	--	1.5
05...	0	31	.2	--	--	13.0	--	--	--	2.5
AUG.										
08...	0	36	.3	13	6.5	13.5	9.2	--	25	--
SEP.										
02...	2	41	.4	24	6.6	14.0	9.0	.3	--	1.0
03...	0	32	.3	27	--	12.5	--	--	--	--
04...	0	45	.5	27	--	12.0	--	--	--	--

## ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)
OCT.								
12.../	1200	--	--	20	--	--	--	--
12...	1300	--	--	--	--	--	--	--
12...	1310	--	--	--	--	--	--	--
12...	1320	--	--	--	--	--	--	--
NOV.								
21...	1100	--	--	20	--	--	--	--
JAN.								
08...	1100	--	6	30	--	1	--	0
FEB.								
22...	1300	--	--	20	--	--	--	--
APR.								
19...	0900	--	--	50	--	--	--	--
MAY								
29...	1510	3	--	--	0	--	10	--
JULY								
03...	1630	5	1	--	<10	1	0	0
04...	0840	0	0	--	<10	0	10	0
05...	0745	1	0	--	<10	0	0	0
AUG.								
08...	0915	--	--	0	--	--	--	--
SEP.								
02...	1510	3 <sup>3</sup>	3	--	0	0	0	0
03...	0825	2	0	--	0	0	0	0
04...	0805	0	4	--	0	0	0	0



## SAN JOAQUIN RIVER BASIN

295

11264500 MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.--Continued

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT.								
12...	--	--	--	--	--	--	--	--
12...	--	--	--	--	.5	.2	--	--
12...	--	--	--	--	.2	.1	--	--
12...	--	--	--	--	.2	.2	--	--
NOV.								
21...	--	--	--	--	--	--	--	--
JAN.								
08...	--	0	--	0	--	.1	--	10
FEB.								
22...	--	--	--	--	.1	.1	--	--
APR.								
19...	--	--	--	--	.3	.3	--	--
MAY								
29...	0	--	<100	--	.3	--	10	--
JULY								
03...	<25	0	<50	2	.1	.1	10	10
04...	<25	0	<50	1	.4	.1	20	20
05...	<25	0	<50	1	.2	.1	10	0
AUG.								
08...	--	--	--	--	.0	.0	--	--
SEP.								
02...	<25	0	<50	2	.1	.1	10	50
03...	<25	0	<50	3	.0	.0	70	60
04...	<25	0	<50	1	.0	.0	0	10

## RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDE GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L)	SUS- PENDE GROSS BETA AS AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (PLAN- CHET COUNT) (PC/L)	DIS- SOLVED NATURAL URANIUM (U) (UG/L)
OCT.									
12...	1240	1.1	2.4	2.3	<.4	2.0	<.4	<.1	.4

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
NOV.						
21...	0955	1.5	--	69	1	.19
JAN.						
08...	1030	1.0	--	67	1	.18
FEB.						
22...	1045	1.0	--	99	1	.27
APR.						
19...	1130	2.5	--	309	1	.83
MAY						
29...	1815	10.5	--	2660	20	144
JUNE						
19...	1330	12.0	--	1030	3	8.3
JULY						
03...	1825	15.5	--	470	2	2.5
04...	0740	11.5	--	465	1	1.3
05...	0735	13.0	--	474	1	1.3
SEP.						
02...	--	--	21	--	1	.06
03...	--	--	20	--	1	.05
04...	--	--	19	--	1	.05

## SAN JOAQUIN RIVER BASIN

11264500 MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	10.5	5.0	3.5	2.5	1.5	0.5	0.5	1.5	1.0	3.5	2.0
2	11.5	10.0	5.5	4.5	2.0	1.0	1.0	0.5	2.0	1.5	3.0	1.0
3	11.0	10.0	5.5	4.5	2.5	1.5	1.0	0.5	2.5	2.0	2.0	1.0
4	11.0	10.0	5.5	5.5	2.5	1.0	0.5	0.5	2.5	1.5	1.5	1.0
5	11.0	9.0	5.5	4.0	1.0	0.5	0.5	0.5	2.5	1.5	1.5	0.5
6	11.0	9.5	4.5	3.0	1.0	0.5	1.0	0.5	3.0	2.0	2.0	1.5
7	11.5	10.0	5.0	4.5	1.0	0.5	1.0	0.5	3.0	2.0	2.5	1.0
8	11.0	9.5	4.5	3.5	1.0	0.5	1.5	1.0	3.0	1.5	3.0	2.0
9	10.5	9.0	3.5	2.5	0.5	0.5	1.5	1.0	2.5	1.5	4.0	1.5
10	10.0	9.0	3.5	3.0	1.0	0.5	1.5	1.5	2.5	1.5	4.5	2.5
11	9.5	8.5	3.5	2.5	0.5	0.5	1.5	1.5	1.5	1.0	3.5	1.5
12	9.0	7.5	2.5	1.5	1.0	0.5	2.5	1.0	1.5	1.0	2.5	1.0
13	8.5	7.0	2.5	2.0	1.5	1.0	3.0	2.0	2.0	1.5	2.5	1.0
14	8.5	6.5	2.5	1.5	1.5	1.0	3.0	1.5	2.0	1.0	2.0	1.0
15	8.0	7.0	2.5	1.5	2.0	1.5	3.0	2.0	2.0	1.0	3.0	1.0
16	7.5	6.5	2.5	1.5	2.0	1.5	2.5	1.5	2.0	1.0	4.0	2.0
17	7.5	6.5	3.0	2.0	1.5	1.0	2.0	1.5	2.5	1.0	3.5	1.5
18	7.5	6.5	3.0	2.0	3.0	1.0	3.0	1.5	2.0	1.0	3.5	1.0
19	7.5	6.5	3.0	1.5	3.5	3.0	2.0	1.0	2.5	1.0	3.5	1.0
20	8.0	7.0	2.0	1.5	3.5	2.5	1.0	0.5	2.5	1.0	1.5	1.0
21	9.0	7.0	2.0	1.5	4.0	2.0	2.0	1.0	2.5	1.5	1.5	0.5
22	9.0	6.5	2.0	1.5	4.5	3.0	1.5	1.0	3.5	1.0	1.5	0.5
23	9.0	7.0	1.5	1.0	3.5	2.5	1.5	1.0	3.5	2.0	2.5	1.0
24	8.5	6.5	1.5	1.0	3.5	2.5	1.5	1.0	3.5	2.5	4.5	1.5
25	7.0	5.5	3.0	1.5	3.0	2.0	2.0	1.5	3.0	1.5	5.0	2.5
26	7.0	5.5	3.5	2.0	3.5	2.5	1.5	1.0	3.0	1.5	4.0	3.5
27	7.0	6.0	3.0	2.0	3.5	2.0	1.0	1.0	3.5	2.5	4.5	3.0
28	7.0	5.5	3.0	2.0	2.0	1.0	1.5	1.0	3.5	2.5	3.5	1.5
29	5.5	3.0	2.5	1.5	1.0	0.5	1.5	1.0	---	---	3.0	1.0
30	3.0	2.0	2.5	1.5	1.0	0.5	1.5	1.0	---	---	4.0	3.0
31	3.5	2.0	---	---	0.5	0.5	1.5	1.0	---	---	5.5	3.5
MONTH	11.5	2.0	5.5	1.0	4.5	0.5	3.0	0.5	3.5	1.0	5.5	0.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.5	1.0	7.0	2.5	10.0	7.5	14.5	10.5	17.0	14.0	13.0	11.0
2	2.5	0.5	7.5	3.5	11.0	6.5	15.0	10.5	17.0	15.0	14.0	12.0
3	3.5	1.5	7.0	3.5	10.5	7.5	16.0	11.0	17.0	15.5	13.0	12.0
4	5.0	2.5	5.5	3.5	12.0	7.5	16.5	11.5	16.0	14.0	13.0	11.5
5	6.5	2.5	5.0	2.5	11.5	8.0	16.5	13.5	16.0	14.0	13.0	11.5
6	6.5	3.5	8.5	3.5	12.0	8.5	16.5	13.0	16.5	15.0	13.5	11.5
7	5.5	2.0	9.0	4.5	12.5	8.0	16.5	13.0	17.0	14.0	13.5	11.5
8	6.5	1.5	9.5	4.5	13.0	9.0	17.0	13.5	17.0	14.5	13.5	11.5
9	5.5	3.0	9.0	4.5	12.0	8.5	17.5	14.0	16.5	14.0	13.0	11.0
10	6.0	3.5	9.0	5.0	12.0	9.0	17.5	14.0	16.0	12.5	13.0	11.0
11	6.5	3.5	9.5	5.0	12.0	9.5	17.0	14.0	16.5	13.5	13.0	11.0
12	6.5	3.5	9.0	5.5	12.0	9.5	16.5	14.0	16.0	13.5	13.5	11.5
13	4.5	2.5	8.5	6.0	11.5	8.5	17.0	13.5	17.0	15.0	14.0	12.0
14	5.5	2.5	9.0	6.5	10.0	8.5	17.5	14.0	17.5	15.0	14.0	12.0
15	5.5	3.0	9.0	6.0	11.0	7.0	17.5	14.5	17.0	15.5	13.5	11.5
16	6.5	3.0	10.0	6.0	11.0	7.5	17.5	14.0	16.0	14.5	13.0	11.0
17	6.0	2.0	10.5	6.5	11.5	8.0	17.0	14.5	16.5	14.5	12.5	11.0
18	5.0	1.5	9.5	7.0	12.5	8.0	17.0	15.0	16.0	13.5	12.0	10.0
19	5.0	2.5	9.0	6.5	13.5	9.5	17.0	14.0	16.0	14.0	12.5	10.0
20	4.5	1.5	9.0	6.0	13.5	9.5	16.0	13.0	15.0	13.0	11.5	10.0
21	6.5	2.0	10.0	6.0	13.5	10.5	16.0	13.0	15.5	13.5	11.5	9.5
22	7.0	2.5	9.0	6.5	13.0	10.0	15.5	11.5	14.5	12.5	11.0	9.5
23	8.0	4.0	10.5	6.5	13.0	10.0	15.0	13.0	14.0	10.5	11.0	9.0
24	8.5	3.5	8.5	6.5	14.0	10.0	15.5	12.0	12.0	9.0	11.0	9.0
25	8.5	3.5	8.5	6.0	15.5	10.5	16.5	13.5	12.0	10.5	10.5	8.5
26	7.5	4.0	9.5	5.5	16.0	12.5	16.5	14.5	12.0	11.0	10.5	8.5
27	7.5	4.0	11.5	6.0	16.5	14.5	16.5	14.5	12.5	10.5	11.0	9.0
28	7.0	4.0	11.5	7.5	15.5	13.5	17.0	15.0	13.0	11.0	11.0	9.0
29	6.5	3.0	10.5	8.0	15.5	12.5	17.0	14.5	13.0	11.5	11.0	9.0
30	5.5	3.0	10.0	8.0	14.0	11.5	16.0	14.5	14.0	12.0	11.0	8.5
31	---	---	9.5	7.5	---	---	16.5	14.5	13.5	11.5	---	---
MONTH	8.5	0.5	11.5	2.5	16.5	6.5	17.5	10.5	17.5	9.0	14.0	8.5

## SAN JOAQUIN RIVER BASIN

297

## 11283100 LILY CREEK NEAR PINECREST, CALIF.

LOCATION.--Lat 38°08'41", long 119°53'59", (unsurveyed) in T.3 N., R.19 E., Tuolumne County, Stanislaus National Forest, temperature recorder at gaging station on left bank, 1,500 ft downstream from Mud Lake, and 5.7 miles southeast of Pinecrest.

DRAINAGE AREA.--11.9 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1964 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Maximum, 21.5°C July 30 to Aug. 2; minimum, freezing point on many days during winter period.

Period of record:

Water temperatures: Maximum, 25.0°C Aug. 17, 1966; minimum, freezing point on many days during winter period each year.

REMARKS.--Temperature probe frozen Nov. 24 to Apr. 15.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.0	4.0	4.0	---	---	---	---	---	---	---	---
2	12.0	10.5	4.0	3.5	---	---	---	---	---	---	---	---
3	12.0	11.0	3.5	3.5	---	---	---	---	---	---	---	---
4	12.0	10.5	3.5	2.5	---	---	---	---	---	---	---	---
5	11.5	10.0	2.5	1.5	---	---	---	---	---	---	---	---
6	10.0	8.5	1.5	1.5	---	---	---	---	---	---	---	---
7	10.0	8.5	1.5	1.5	---	---	---	---	---	---	---	---
8	9.0	8.0	1.5	1.0	---	---	---	---	---	---	---	---
9	9.0	8.0	1.0	1.0	---	---	---	---	---	---	---	---
10	8.0	7.0	1.0	1.0	---	---	---	---	---	---	---	---
11	7.0	6.5	1.0	1.0	---	---	---	---	---	---	---	---
12	7.0	7.0	1.0	0.5	---	---	---	---	---	---	---	---
13	7.0	7.0	0.5	0.5	---	---	---	---	---	---	---	---
14	7.0	7.0	0.5	0.5	---	---	---	---	---	---	---	---
15	7.0	6.5	0.5	0.5	---	---	---	---	---	---	---	---
16	6.5	6.0	0.5	0.5	---	---	---	---	---	---	---	---
17	6.0	6.0	0.5	0.5	---	---	---	---	---	---	---	---
18	6.0	5.5	0.5	0.5	---	---	---	---	---	---	---	---
19	5.5	5.0	0.5	0.5	---	---	---	---	---	---	---	---
20	5.0	5.0	0.5	0.5	---	---	---	---	---	---	---	---
21	5.5	5.0	0.5	0.5	---	---	---	---	---	---	---	---
22	6.0	5.0	0.5	0.5	---	---	---	---	---	---	---	---
23	6.5	6.0	0.5	0.0	---	---	---	---	---	---	---	---
24	6.5	6.0	---	---	---	---	---	---	---	---	---	---
25	6.0	5.0	---	---	---	---	---	---	---	---	---	---
26	5.5	5.0	---	---	---	---	---	---	---	---	---	---
27	5.0	5.0	---	---	---	---	---	---	---	---	---	---
28	5.0	5.0	---	---	---	---	---	---	---	---	---	---
29	5.0	4.5	---	---	---	---	---	---	---	---	---	---
30	4.5	4.0	---	---	---	---	---	---	---	---	---	---
31	4.0	4.0	---	---	---	---	---	---	---	---	---	---
MONTH	12.0	4.0	---	---	---	---	---	---	---	---	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	3.5	2.0	5.5	4.5	15.5	10.5	21.5	18.0	16.0	13.5
2	---	---	3.5	2.5	7.5	4.5	15.5	11.5	21.5	18.5	16.5	14.0
3	---	---	3.0	2.5	8.0	5.0	16.5	12.5	20.5	18.5	16.0	14.0
4	---	---	2.5	2.0	8.0	5.5	17.5	13.5	20.0	17.5	16.5	13.5
5	---	---	2.5	1.5	9.5	6.0	18.5	15.0	18.5	16.5	16.5	14.0
6	---	---	4.0	1.5	10.0	6.0	19.0	15.5	19.0	15.5	16.5	13.5
7	---	---	3.5	2.0	11.0	7.0	18.5	14.5	19.5	16.0	16.0	13.5
8	---	---	3.5	2.5	11.5	7.5	18.5	15.0	19.5	16.5	15.5	13.5
9	---	---	3.5	2.0	11.0	8.5	19.0	16.0	19.5	16.5	15.5	13.5
10	---	---	3.5	2.0	11.5	8.5	19.0	17.0	19.5	16.0	15.0	13.5
11	---	---	3.5	2.0	12.5	8.5	19.0	17.5	19.5	16.5	15.5	13.5
12	---	---	3.0	2.0	12.5	9.0	19.0	17.0	19.5	16.5	15.5	13.5
13	---	---	3.0	2.0	10.5	8.5	18.5	17.5	19.5	17.0	15.5	13.5
14	---	---	3.0	2.0	10.0	8.0	18.0	16.0	19.5	17.0	15.0	13.5
15	---	---	3.5	2.0	10.5	7.0	18.5	16.5	19.5	17.5	14.5	13.0
16	1.0	0.5	4.0	3.0	10.0	8.0	19.5	17.0	19.5	17.0	14.5	12.5
17	1.5	1.0	4.0	2.5	11.5	7.5	20.0	18.0	19.5	16.5	14.0	12.5
18	2.0	1.0	4.0	2.5	11.0	8.0	20.0	18.0	18.5	16.5	13.5	12.0
19	2.5	1.0	3.5	2.0	12.0	8.0	19.5	17.5	17.0	16.0	13.5	12.0
20	2.5	1.0	5.0	3.0	12.0	8.5	19.0	17.0	16.0	14.5	13.5	12.5
21	3.0	1.0	5.0	3.5	13.0	9.0	18.0	15.0	16.5	14.5	12.5	11.0
22	3.0	1.0	4.5	3.5	11.5	9.0	18.0	15.0	16.5	14.5	12.5	11.0
23	3.0	1.5	5.5	3.5	10.5	9.0	18.5	15.0	16.0	14.0	11.5	10.0
24	2.5	1.5	4.5	4.0	13.0	9.5	18.5	15.0	15.5	13.5	11.0	10.0
25	2.5	1.5	4.0	3.5	14.5	9.5	20.0	16.0	15.0	13.5	11.0	9.5
26	3.0	1.5	6.0	3.5	16.5	12.0	20.0	17.0	13.5	12.5	11.0	9.5
27	2.5	2.0	7.0	4.0	15.0	13.5	21.0	17.5	12.5	11.0	11.5	9.5
28	3.0	2.0	7.0	4.5	16.5	12.5	20.5	18.0	15.0	11.5	11.5	10.0
29	2.5	2.0	7.0	4.5	16.5	12.5	21.0	18.0	15.5	13.0	11.5	10.0
30	3.5	2.0	6.0	5.0	15.5	11.5	21.5	18.0	16.5	13.5	11.5	10.0
31	---	---	6.0	5.0	---	---	21.5	18.5	16.0	14.0	---	---
MONTH	---	---	7.0	1.5	16.5	4.5	21.5	10.5	21.5	11.0	16.5	9.5

## SAN JOAQUIN RIVER BASIN

11289650 TUOLUMNE RIVER BELOW LA GRANGE DAM, NEAR LA GRANGE, CALIF.

LOCATION.--Lat 37°39'59", long 120°26'28", in NW¼ sec.21, T.3 S., R.14 E., Stanislaus County, temperature recorder at gaging station on left bank, 0.5 mile downstream from La Grange Dam, and 1.1 miles east of La Grange.

DRAINAGE AREA.--1,538 sq mi.

PERIOD OF RECORD.--Water temperatures: November 1970 to September 1973.

## EXTREMES, 1972-73:

Water temperatures: Maximum, 20.5°C Aug. 19; minimum, 8.0°C on many days during January to April.

## Period of record:

Water temperatures: Maximum (1972-73), 20.5°C Aug. 19, 1973; minimum, 6.0°C Feb. 6-8, 10, 1971.

REMARKS.--No record Dec. 5-19.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	16.0	15.5	14.0	11.5	11.0	9.0	8.5	8.5	8.5	9.5	8.5
2	17.0	15.0	15.5	14.0	11.5	11.0	9.5	8.5	8.5	8.0	9.0	8.5
3	18.0	16.0	15.0	14.5	11.5	11.0	9.0	9.0	8.5	8.0	8.5	8.0
4	18.5	17.5	15.5	14.0	11.5	11.0	9.0	8.5	9.0	8.5	8.5	8.0
5	18.5	17.0	15.5	14.0	---	---	9.0	8.5	8.5	8.5	8.5	8.5
6	18.5	17.5	15.0	13.5	---	---	8.5	8.5	8.5	8.5	8.5	8.0
7	19.0	17.5	14.0	13.5	---	---	8.5	8.5	9.0	8.5	8.5	8.0
8	18.5	17.5	14.5	13.5	---	---	8.5	8.5	8.5	8.5	9.0	8.5
9	18.5	16.5	14.5	13.5	---	---	9.0	8.5	9.0	8.5	9.0	8.5
10	17.5	16.5	14.0	13.5	---	---	9.0	8.5	9.0	8.5	8.5	8.5
11	18.0	16.5	14.0	13.5	---	---	9.0	8.5	10.0	9.0	9.0	8.5
12	18.0	16.5	13.5	13.0	---	---	9.0	8.5	10.5	8.5	9.0	8.5
13	18.0	17.0	13.5	13.0	---	---	9.0	8.5	9.0	8.5	8.5	8.5
14	17.5	16.5	13.5	12.0	---	---	9.0	9.0	9.0	8.5	8.5	8.0
15	17.5	16.5	13.5	13.0	---	---	9.0	9.0	8.5	8.5	8.5	8.5
16	17.0	15.5	13.5	12.5	---	---	9.0	8.5	8.5	8.5	8.5	8.5
17	16.0	15.5	13.0	12.5	---	---	9.0	8.5	9.0	8.5	8.5	8.0
18	17.0	15.5	13.0	12.5	---	---	9.0	8.5	9.0	8.5	8.5	8.0
19	16.5	15.5	12.5	12.0	---	---	8.5	8.5	9.0	8.5	8.5	8.0
20	16.0	15.5	12.5	12.0	10.0	9.5	8.5	8.5	9.0	8.5	8.5	8.0
21	17.0	15.5	13.0	12.5	9.5	9.5	8.5	8.5	8.5	8.5	8.5	8.0
22	16.5	15.5	12.5	12.0	10.0	9.5	8.5	8.5	8.5	8.5	8.5	8.0
23	17.0	15.5	12.0	11.5	9.5	9.5	8.5	8.0	9.0	8.5	8.5	8.5
24	16.5	15.0	12.0	11.5	10.0	9.5	8.5	8.0	9.0	8.5	9.0	8.5
25	16.0	15.0	12.0	11.5	9.5	9.5	8.5	8.5	9.0	8.5	9.0	8.5
26	16.0	15.0	12.0	11.5	9.5	9.0	8.5	8.0	9.0	8.0	9.0	8.5
27	16.5	15.0	12.0	11.5	9.5	9.5	8.5	8.0	8.5	8.0	9.0	8.5
28	16.0	15.0	12.0	11.5	9.5	9.0	8.5	8.0	9.5	8.5	9.0	8.5
29	16.0	15.0	11.5	11.0	9.5	9.0	8.5	8.5	---	---	8.5	8.5
30	16.0	14.5	11.5	11.0	9.5	9.0	8.5	8.5	---	---	8.5	8.5
31	15.5	14.5	---	---	9.0	9.0	9.0	8.5	---	---	9.0	8.5
MONTH	19.0	14.5	15.5	11.0	---	---	9.5	8.0	10.5	8.0	9.5	8.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	8.5	12.0	8.5	15.0	11.5	16.0	12.0	18.5	12.5	18.0	14.0
2	9.5	8.0	11.5	9.0	18.0	11.0	18.0	12.0	18.5	12.5	19.5	14.5
3	9.0	8.0	13.5	9.0	16.5	11.0	16.5	12.5	15.5	12.5	17.0	14.5
4	9.5	8.0	13.0	10.0	14.0	10.0	18.5	13.0	16.0	12.5	18.5	14.0
5	9.0	8.0	13.0	10.0	12.5	10.0	17.5	12.5	16.5	12.5	19.5	15.0
6	9.0	8.0	14.5	9.5	12.5	10.0	18.0	13.5	19.0	13.0	19.0	14.0
7	10.0	8.0	13.0	9.5	13.0	10.5	17.0	12.5	18.0	13.5	18.0	14.0
8	9.5	8.5	12.0	9.5	12.5	10.5	17.5	12.5	18.0	13.0	18.0	14.0
9	9.5	8.5	13.0	9.0	13.0	10.5	17.0	12.0	16.5	13.0	18.5	14.5
10	8.5	8.0	13.0	9.5	14.5	10.5	16.5	12.0	19.0	13.0	20.0	14.5
11	9.0	8.0	13.0	10.0	15.5	11.5	16.0	12.0	17.0	14.0	19.0	14.5
12	9.0	8.0	14.5	10.0	17.5	12.0	17.5	12.0	18.5	14.0	20.0	14.0
13	9.0	8.5	12.5	10.5	14.5	11.5	18.5	12.5	19.5	14.5	19.0	13.5
14	9.0	8.0	13.5	9.0	15.5	11.0	18.0	12.5	19.5	12.5	18.0	14.5
15	9.0	8.0	10.0	9.0	16.0	11.0	17.0	12.5	15.0	12.5	18.0	14.0
16	9.0	8.5	14.0	10.0	15.0	11.0	16.0	13.0	16.0	12.5	18.0	14.0
17	9.0	8.5	14.5	10.0	14.5	11.0	16.0	13.0	16.5	12.5	17.5	13.5
18	9.0	8.0	15.0	10.0	15.0	11.5	18.0	13.0	18.0	14.0	19.5	14.5
19	9.0	8.0	13.0	10.0	16.0	11.5	18.5	12.5	20.5	15.0	18.5	14.5
20	9.0	8.0	13.5	10.0	15.0	10.5	16.5	12.5	18.0	15.0	19.0	16.0
21	9.0	8.0	13.5	10.0	12.5	10.5	18.0	12.5	18.5	14.5	19.5	14.5
22	9.5	8.0	14.5	10.0	14.0	10.5	17.0	12.5	18.5	14.5	16.0	14.0
23	9.5	8.5	14.5	10.0	14.5	11.5	18.0	12.5	16.5	13.5	19.5	14.0
24	9.5	8.0	12.0	10.5	18.0	11.5	17.5	12.5	19.0	13.5	18.0	13.5
25	9.0	8.5	13.5	10.5	18.0	11.0	15.5	12.0	16.5	13.5	17.5	14.0
26	9.5	8.5	13.5	10.0	12.0	11.0	14.0	12.0	17.5	13.5	18.0	14.0
27	9.5	8.5	14.5	10.5	13.5	11.0	15.5	12.0	19.0	15.5	17.5	14.0
28	9.5	8.5	17.5	10.5	12.5	11.0	18.0	12.5	19.0	14.5	16.5	14.5
29	9.5	8.5	16.5	12.5	17.0	11.5	16.5	12.5	20.0	14.5	14.5	13.5
30	9.5	8.5	15.5	11.5	17.0	12.5	17.5	12.5	17.5	14.5	14.0	13.0
31	---	---	15.5	11.5	---	---	16.0	12.5	18.5	15.0	---	---
MONTH	10.0	8.0	17.5	8.5	18.0	10.0	18.5	12.0	20.5	12.5	20.0	13.0

## SAN JOAQUIN RIVER BASIN

299

11290000 TUOLUMNE RIVER AT MODESTO, CALIF.

LOCATION.--Lat 37°37'38", long 120°59'11", in SE¼SW¼ sec.33, T.3 S., R.9 E., Stanislaus County, temperature recorder at gaging station on left bank, at bridge on Ninth Street in Modesto, and 0.2 mile downstream from Dry Creek.

DRAINAGE AREA.--1,884 sq mi.

PERIOD OF RECORD.--Water temperatures: July 1965 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Minimum, 6.5°C on several days during December.

Period of record:

Water temperatures: Maximum (1965-67, 1968-72), 31.5°C July 15, 1972; minimum, 6.5°C on several days in 1972.

REMARKS.--Recorder malfunction June 2 to July 24, July 26 to Aug. 1.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	19.0	14.0	13.0	11.0	10.5	9.0	8.0	11.0	10.0	13.5	12.5
2	22.0	19.0	14.5	13.5	10.5	10.0	9.0	8.0	11.0	10.5	14.0	12.0
3	21.5	20.0	15.5	14.0	10.5	10.0	9.0	8.5	10.5	10.0	13.5	11.5
4	20.0	18.5	16.0	15.5	10.5	9.5	8.5	7.5	11.5	10.0	13.5	12.5
5	20.0	18.0	15.5	15.0	9.5	9.0	8.5	7.5	11.5	10.5	13.5	12.0
6	20.0	18.5	15.5	14.5	9.0	8.5	7.5	7.0	12.0	11.0	13.0	12.0
7	20.5	19.0	16.0	15.0	9.0	8.5	8.0	7.0	12.5	11.5	13.0	11.5
8	21.0	19.5	15.5	14.5	8.5	8.0	8.5	7.5	12.5	11.5	13.0	11.5
9	21.0	20.0	15.0	14.0	8.0	7.5	9.0	8.0	12.5	11.5	13.0	11.0
10	20.0	19.0	15.0	13.0	7.5	7.0	9.5	9.0	12.5	12.0	13.5	12.0
11	20.5	19.0	14.5	12.5	7.0	6.5	10.5	9.5	12.0	11.5	14.0	12.5
12	19.5	18.5	14.0	13.0	7.0	6.5	11.0	10.5	11.5	10.5	14.0	12.0
13	19.5	18.5	14.0	12.0	7.0	6.5	11.0	11.0	12.0	10.5	14.0	12.5
14	19.5	18.5	13.5	11.5	6.5	6.5	11.5	11.0	12.5	11.5	14.0	11.5
15	19.0	18.0	13.5	12.5	6.5	6.5	12.0	11.5	12.5	11.5	14.0	11.5
16	19.0	17.5	13.5	12.5	7.0	6.5	12.0	11.0	12.0	11.0	14.0	12.0
17	18.5	17.5	13.5	13.0	8.5	7.0	11.5	11.0	12.5	11.0	14.0	12.5
18	18.5	17.0	13.5	12.5	9.5	8.5	11.5	10.5	13.0	11.5	14.5	12.0
19	18.5	17.0	13.5	12.5	10.5	9.5	10.5	9.5	13.0	11.5	13.5	11.5
20	18.5	17.5	13.0	12.5	11.5	10.5	9.5	9.0	13.5	11.5	14.0	12.5
21	18.0	16.5	13.0	12.5	12.0	11.5	9.5	9.0	13.5	12.0	12.5	11.5
22	18.0	17.0	12.5	12.0	12.5	11.5	10.5	9.0	13.5	12.5	13.0	11.5
23	18.0	16.5	12.0	11.5	12.0	11.0	10.0	9.0	13.5	12.0	13.5	11.0
24	17.5	16.5	11.5	11.0	12.0	11.0	9.5	9.0	14.0	12.5	14.5	12.0
25	18.0	16.5	11.5	11.0	11.5	10.5	9.5	9.0	14.0	12.5	14.5	13.0
26	17.5	16.5	11.5	11.0	11.0	10.5	9.5	8.5	13.5	12.5	14.5	13.0
27	17.0	16.0	11.5	11.0	11.0	10.5	10.0	9.0	13.5	13.0	14.5	13.5
28	16.5	15.5	11.5	11.0	10.5	9.5	10.0	9.0	13.5	12.5	14.5	13.0
29	15.5	14.5	11.0	11.0	9.5	8.5	10.0	9.5	---	---	14.0	12.5
30	14.5	13.0	11.0	10.5	9.5	8.5	10.5	9.0	---	---	13.5	13.0
31	14.0	13.0	---	---	9.0	8.0	10.5	9.5	---	---	15.5	13.0
MONTH	22.0	13.0	16.0	10.5	12.5	6.5	12.0	7.0	14.0	10.0	15.5	11.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	12.5	22.5	19.5	23.5	21.5	---	---	---	---	23.5	21.0
2	15.5	12.5	22.5	19.5	---	---	---	---	26.5	24.5	24.0	21.0
3	16.5	13.5	22.0	19.5	---	---	---	---	27.0	25.0	23.5	21.5
4	17.0	14.0	20.5	18.5	---	---	---	---	27.0	24.5	23.5	21.0
5	18.0	15.0	21.0	18.0	---	---	---	---	27.0	24.5	23.0	21.0
6	19.0	16.0	22.5	18.5	---	---	---	---	26.5	24.5	23.0	20.0
7	18.5	16.5	21.5	19.5	---	---	---	---	26.5	23.5	23.5	21.0
8	19.0	16.5	22.5	18.5	---	---	---	---	25.5	23.0	23.0	20.5
9	18.5	17.5	23.0	19.5	---	---	---	---	25.0	22.5	23.5	20.5
10	19.0	18.0	24.0	20.0	---	---	---	---	25.5	22.5	23.5	21.5
11	20.5	17.5	24.0	21.0	---	---	---	---	26.5	23.0	23.5	21.0
12	19.5	18.0	24.0	21.5	---	---	---	---	26.0	23.0	24.0	21.0
13	18.5	16.5	25.5	21.5	---	---	---	---	25.5	23.0	23.0	21.0
14	18.5	17.0	26.0	22.5	---	---	---	---	27.0	23.5	23.0	20.5
15	19.0	17.0	26.5	22.5	---	---	---	---	27.0	23.5	22.5	20.5
16	19.5	17.0	24.0	21.5	---	---	---	---	26.0	24.5	22.5	20.5
17	19.5	17.0	24.0	19.5	---	---	---	---	25.5	23.5	22.5	20.0
18	18.0	15.5	25.5	22.0	---	---	---	---	25.5	22.5	23.0	20.5
19	18.0	16.0	24.5	22.0	---	---	---	---	25.0	23.0	23.0	20.5
20	18.0	15.5	24.5	21.0	---	---	---	---	25.0	22.0	22.5	21.0
21	19.5	16.0	24.0	21.0	---	---	---	---	24.0	22.0	22.0	19.5
22	20.0	17.0	24.0	21.0	---	---	---	---	23.0	20.5	21.0	19.5
23	20.5	18.0	24.0	21.0	---	---	---	---	22.0	20.0	21.0	20.0
24	21.5	18.5	23.0	21.0	---	---	25.0	21.5	23.0	20.0	21.0	19.5
25	22.5	19.0	22.5	20.0	---	---	---	---	23.0	20.5	22.0	19.0
26	23.0	20.0	22.5	19.0	---	---	---	---	23.0	20.5	21.5	18.5
27	23.5	21.0	24.0	19.5	---	---	---	---	23.0	21.0	22.0	19.5
28	23.0	20.5	25.0	21.5	---	---	---	---	24.0	21.0	22.5	20.0
29	21.5	19.5	27.0	23.5	---	---	---	---	25.0	22.0	22.0	19.5
30	21.0	19.0	26.0	24.0	---	---	---	---	24.5	22.5	22.0	20.0
31	---	---	25.0	22.5	---	---	---	---	23.5	22.0	---	---
MONTH	23.5	12.5	27.0	18.0	---	---	---	---	27.0	20.0	24.0	18.5

## SAN JOAQUIN RIVER BASIN

11292700 MIDDLE FORK STANISLAUS RIVER AT HELLS HALF ACRE BRIDGE, NEAR PINECREST, CALIF.

LOCATION.--Lat 38°14'49", long 120°01'51", in SW¼NE¼ sec.31, T.5 N., R.18 E., Tuolumne County, temperature recorder at gaging station on left bank, 200 ft upstream from Donnell powerhouse, 800 ft downstream from Hells Half Acre Bridge, 1.1 miles upstream from Cow Creek, and 4.7 miles northwest of Pinecrest.

DRAINAGE AREA.--287 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Maximum, 21.0°C on several days during July and August; minimum, freezing point on several days during December and January.

Period of record:

Water temperatures: Maximum (1966-73), 22.5°C Aug. 10, 1972; minimum, freezing point on many days during winter period each year.

REMARKS.--Clock stopped May 20-21; range in temperature, 6.5°C to 9.5°C. No record Oct. 1-4, Feb. 27 to Apr. 5, and Sept. 15-30.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	8.0	6.0	5.0	4.0	2.0	0.0	3.5	1.5	---	---
2	---	---	9.0	7.0	5.0	3.5	2.0	0.5	3.0	2.0	---	---
3	---	---	9.0	7.0	5.0	3.5	2.0	1.5	3.0	2.5	---	---
4	---	---	9.0	8.5	4.5	2.5	1.5	0.5	3.5	2.5	---	---
5	15.0	13.0	9.5	8.0	2.5	1.0	1.0	0.0	3.5	2.0	---	---
6	15.5	12.5	8.0	7.0	2.0	0.5	1.0	0.0	3.5	3.0	---	---
7	15.0	13.0	8.0	7.0	1.5	0.5	0.5	0.0	4.5	3.0	---	---
8	15.0	13.0	8.0	6.0	1.0	0.0	0.5	0.0	5.0	3.5	---	---
9	14.0	13.0	7.0	6.0	0.5	0.0	0.5	0.0	4.0	3.0	---	---
10	13.5	12.5	6.5	6.0	0.5	0.0	2.0	0.5	4.0	1.5	---	---
11	14.0	12.5	6.5	5.5	0.5	0.0	2.0	1.5	1.5	1.0	---	---
12	13.0	11.0	6.5	5.0	0.5	0.0	3.0	1.5	2.5	1.0	---	---
13	13.0	11.0	6.0	5.0	0.5	0.0	4.5	2.5	3.0	2.0	---	---
14	11.5	10.5	5.5	5.0	0.5	0.0	4.0	2.5	3.0	2.5	---	---
15	11.5	10.0	6.0	4.5	0.5	0.0	4.5	3.0	4.5	2.0	---	---
16	11.5	10.0	6.0	5.0	1.5	0.5	4.0	3.0	4.5	2.5	---	---
17	11.5	10.0	6.5	5.0	2.0	1.5	3.5	2.5	5.0	2.0	---	---
18	12.0	9.5	6.5	5.5	3.5	2.0	4.0	2.5	4.5	2.0	---	---
19	10.5	9.0	7.0	6.0	4.5	3.5	3.0	1.5	5.0	2.5	---	---
20	12.0	10.0	6.5	5.0	5.0	3.5	3.0	1.0	5.5	2.5	---	---
21	12.0	9.5	6.0	4.5	5.0	4.0	3.5	2.0	4.5	3.0	---	---
22	12.0	9.5	6.5	5.0	5.5	4.5	3.0	1.5	5.0	3.0	---	---
23	12.5	10.0	5.0	4.0	4.5	3.5	3.0	1.0	5.0	3.0	---	---
24	11.5	9.5	5.5	3.5	5.5	4.5	3.0	2.0	4.5	4.0	---	---
25	11.0	8.5	5.5	4.0	5.0	4.0	3.0	2.5	5.5	3.0	---	---
26	11.0	8.5	6.0	4.5	5.0	3.5	2.5	1.0	5.0	3.0	---	---
27	10.0	8.5	6.0	5.0	4.5	3.5	2.0	0.5	---	---	---	---
28	10.0	8.0	6.0	4.5	3.5	2.0	2.5	1.0	---	---	---	---
29	9.0	6.5	6.0	4.5	2.0	1.0	2.0	1.0	---	---	---	---
30	7.5	5.5	5.5	4.0	1.5	0.5	2.5	1.0	---	---	---	---
31	7.5	5.0	---	---	2.0	0.5	3.5	2.0	---	---	---	---
MONTH:	15.5	5.0	9.5	3.5	5.5	0.0	4.5	0.0	5.5	1.0	---	---

APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	7.5	3.5	10.0	8.5	17.0	12.5	21.0	16.5	17.0	13.0
2	---	---	9.5	4.5	10.5	8.0	18.0	13.0	20.5	17.0	17.0	13.5
3	---	---	8.5	5.0	10.5	8.0	18.5	13.5	20.0	16.5	17.0	13.5
4	---	---	6.0	4.0	12.0	8.5	19.0	14.0	17.5	16.0	17.0	13.5
5	---	---	6.0	3.5	12.5	9.0	19.5	15.0	18.0	14.5	16.5	13.0
6	9.0	5.0	8.5	4.0	13.5	9.0	19.5	15.0	18.5	15.0	16.5	13.0
7	8.0	4.5	10.0	5.0	13.5	10.0	19.5	14.5	19.0	14.5	17.0	13.5
8	8.0	3.5	10.5	5.5	14.0	10.0	19.5	15.0	19.0	15.0	17.0	14.0
9	8.0	5.0	9.5	5.0	14.0	10.0	20.0	15.5	19.0	14.5	17.5	14.0
10	8.0	5.0	10.5	5.5	14.5	9.5	20.5	16.0	18.5	14.5	17.5	14.5
11	7.5	4.5	10.5	6.0	14.5	10.0	20.5	16.0	19.0	14.5	17.0	14.0
12	7.5	4.5	10.5	6.0	14.5	10.0	20.5	16.0	19.0	15.0	16.5	13.5
13	5.0	3.5	10.0	6.0	13.5	10.0	19.0	15.5	19.0	15.0	16.5	13.0
14	6.5	3.0	9.5	6.0	13.0	9.0	20.0	15.0	19.0	15.5	17.0	13.5
15	5.5	4.0	10.5	6.0	13.0	8.5	20.0	15.5	19.5	16.0	---	---
16	7.0	3.5	11.5	6.0	13.0	9.0	21.0	16.0	19.5	15.5	---	---
17	8.0	4.5	11.0	7.0	13.0	9.0	20.5	16.5	19.0	15.0	---	---
18	6.0	3.0	10.5	7.5	13.5	9.5	21.0	16.5	18.5	15.0	---	---
19	6.5	3.5	9.0	7.0	14.5	10.5	21.0	16.5	18.5	15.0	---	---
20	6.5	3.0	---	---	15.0	11.0	20.0	16.5	18.0	15.0	---	---
21	8.0	3.5	---	---	16.0	12.0	19.0	15.0	18.0	15.0	---	---
22	8.5	4.0	11.0	7.5	15.5	12.0	19.0	14.5	17.5	14.0	---	---
23	9.0	4.5	10.0	7.5	14.5	11.0	19.0	14.5	16.5	13.0	---	---
24	9.5	4.5	9.0	7.5	15.0	12.5	19.0	14.0	16.0	12.0	---	---
25	9.5	4.5	8.5	7.0	16.5	12.5	19.5	15.0	15.5	13.0	---	---
26	9.5	4.5	10.0	6.5	18.0	13.5	20.0	15.5	14.5	13.0	---	---
27	9.5	4.5	11.5	7.0	17.5	14.5	20.5	16.0	16.0	12.0	---	---
28	8.5	4.5	11.5	8.5	18.5	14.5	20.5	16.5	16.5	12.5	---	---
29	7.0	3.5	11.5	9.0	18.0	13.5	21.0	17.0	17.5	13.5	---	---
30	7.0	3.5	11.5	9.5	17.0	13.0	21.0	17.0	17.5	14.0	---	---
31	---	---	11.5	9.5	---	---	20.5	17.0	17.0	13.0	---	---
MONTH:	9.5	3.0	11.5	3.5	18.5	8.0	21.0	12.5	21.0	12.0	---	---

## 11295400 STANISLAUS RIVER NEAR HATHAWAY PINES, CALIF.

LOCATION.--Lat 38°08'09", long 120°22'38", in NE¼NE¼ sec.12, T.3 N., R.14 E., Calaveras County, temperature recorder on downstream side of Camp Nine Road bridge at right bank pier, 0.8 mile downstream from gaging station, 4.0 miles southeast of Hathaway Pines, and 4.6 miles east of Murphys.

DRAINAGE AREA.--629 sq mi (at gaging station).

PERIOD OF RECORD.--Water temperatures: February 1970 to September 1973.

## EXTREMES, 1972-73:

Water temperatures: Maximum, 20.5°C July 30; minimum, 2.0°C Dec. 8.

Period of record:

Water temperatures: Maximum, 20.5°C July 30, 1973; minimum, 2.0°C Dec. 8, 1972.

REMARKS.--Clock stopped Dec. 16-18, Jan. 12-16, Mar. 8-15, May 5-16, June 9-12; range in temperature, 3.0°C to 5.5°C, 5.5°C to 6.5°C, 5.5°C to 7.0°C, 6.0°C to 11.0°C, and 13.5°C to 15.5°C, respectively.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	14.0	9.5	8.0	10.0	8.0	5.5	3.5	5.0	4.5	7.0	6.0
2	15.0	14.0	10.5	9.0	10.0	8.0	5.5	3.5	5.0	4.5	7.0	6.0
3	15.0	14.0	10.5	8.5	9.5	7.5	6.0	4.5	5.5	5.0	6.5	6.0
4	15.0	14.0	11.5	10.0	9.0	7.0	6.0	3.0	6.0	5.5	6.0	5.0
5	15.0	14.0	11.5	10.5	9.0	6.0	5.0	3.5	6.0	5.5	6.0	5.0
6	14.5	14.0	10.5	10.0	8.0	6.0	5.0	4.0	6.0	5.5	6.0	5.5
7	15.5	14.0	10.0	10.0	8.0	5.5	6.5	5.0	6.5	6.0	6.0	5.0
8	15.0	14.0	10.0	9.0	8.0	2.0	6.0	5.0	6.5	6.0	---	---
9	15.0	14.5	9.5	8.5	7.5	5.0	5.5	4.5	6.5	6.0	---	---
10	14.5	14.0	10.5	8.5	7.5	5.0	5.5	5.0	7.0	6.0	---	---
11	15.5	14.0	10.5	8.0	7.0	5.0	6.0	5.0	6.0	5.5	---	---
12	14.5	14.0	8.5	7.5	7.0	6.0	---	---	6.0	5.5	---	---
13	14.5	14.0	9.0	7.5	7.0	5.0	---	---	6.0	5.5	---	---
14	14.5	13.5	8.5	7.0	7.0	6.0	---	---	6.5	5.5	---	---
15	14.5	14.0	8.0	7.0	7.0	3.5	---	---	5.5	5.0	---	---
16	14.5	14.0	8.0	7.5	---	---	---	---	6.0	5.5	7.0	6.0
17	14.0	13.5	8.0	7.0	---	---	6.0	5.0	6.0	5.0	7.5	6.0
18	14.0	12.5	7.5	6.5	---	---	6.0	5.0	6.0	5.5	6.5	5.5
19	14.0	12.5	8.5	7.5	6.5	5.5	5.5	5.0	6.0	5.5	6.5	6.0
20	14.5	14.0	8.0	7.0	7.0	6.0	5.0	3.5	6.0	5.5	6.5	5.0
21	15.0	14.5	7.5	7.0	7.5	6.5	5.0	4.0	6.5	5.5	5.0	4.5
22	14.5	14.5	7.5	6.5	7.5	7.0	5.0	4.0	6.0	5.5	6.0	4.5
23	15.0	14.5	6.5	5.5	7.5	6.0	4.5	3.5	6.5	6.0	7.0	5.5
24	15.0	14.5	6.5	5.0	7.0	6.5	4.5	4.0	6.5	6.0	7.5	6.5
25	14.5	14.0	10.0	6.5	7.0	5.5	5.0	4.5	7.0	6.0	8.0	7.0
26	14.0	13.5	10.5	8.5	6.5	6.0	5.0	4.0	7.0	6.0	8.0	7.0
27	14.0	13.5	10.5	9.0	7.0	6.0	4.5	3.5	6.0	6.0	7.0	6.5
28	13.5	13.0	10.0	8.5	7.0	6.0	4.5	3.5	6.5	6.0	7.0	6.0
29	13.5	12.5	9.5	8.0	6.0	4.5	4.5	4.0	---	---	6.5	5.5
30	13.0	9.0	9.5	7.0	5.5	4.0	4.5	4.0	---	---	6.5	6.0
31	9.0	7.5	---	---	5.5	3.5	5.0	4.5	---	---	7.5	6.5
MONTH	15.5	7.5	11.5	5.0	10.0	2.0	6.5	3.0	7.0	4.5	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.5	9.0	6.5	13.5	12.0	15.5	13.0	15.5	12.0	14.5	11.5
2	7.0	6.0	9.5	7.0	14.0	12.0	15.5	12.5	16.5	12.0	13.5	12.0
3	8.0	6.5	9.0	7.0	14.0	12.0	15.5	13.0	14.0	11.5	15.0	12.0
4	8.0	7.0	8.5	6.5	14.5	12.0	16.0	13.0	16.5	11.5	14.0	12.5
5	9.5	7.5	---	---	14.5	13.0	15.5	13.0	15.5	11.5	13.5	12.0
6	9.5	8.0	---	---	15.5	13.5	15.5	12.5	14.0	12.0	13.5	12.0
7	9.0	7.0	---	---	15.5	13.5	15.5	12.0	15.5	12.0	15.0	12.0
8	9.0	6.5	---	---	15.5	13.5	16.0	12.0	14.5	12.0	13.0	12.0
9	9.0	7.5	---	---	---	---	16.0	12.0	15.0	12.5	14.5	12.5
10	9.0	7.0	---	---	---	---	15.0	12.0	17.0	12.5	14.5	12.5
11	9.0	7.0	---	---	---	---	16.5	12.5	17.0	12.5	14.5	12.5
12	9.0	7.0	---	---	---	---	13.5	11.5	16.0	12.5	15.0	12.5
13	8.5	5.5	---	---	14.5	13.0	14.5	12.0	16.0	12.5	13.5	12.5
14	8.0	5.5	---	---	14.5	12.5	15.5	11.5	14.0	12.5	15.0	12.5
15	8.0	7.0	---	---	15.0	11.5	14.5	12.0	15.5	12.5	14.5	12.5
16	8.5	6.5	---	---	14.5	12.0	17.0	12.0	15.5	12.5	15.0	12.5
17	8.5	7.5	12.0	8.5	15.5	11.5	15.0	12.0	15.5	12.5	14.5	12.5
18	8.0	6.0	13.0	8.5	15.5	12.0	15.0	12.0	15.5	12.5	14.0	12.5
19	8.5	7.0	13.0	10.0	16.5	12.0	14.5	12.0	14.5	12.5	13.5	12.5
20	8.5	6.0	12.0	9.5	16.0	13.0	14.5	12.0	15.0	12.5	14.5	12.5
21	10.0	6.5	12.5	10.0	16.0	13.0	15.0	12.5	14.0	12.5	14.0	12.0
22	10.0	7.0	13.0	10.5	15.5	13.0	15.5	11.5	15.0	12.0	14.0	12.0
23	10.0	7.0	13.0	10.0	15.0	13.0	15.0	11.5	15.0	12.0	13.5	12.0
24	10.0	7.0	12.0	10.0	16.0	13.0	14.5	11.5	14.0	12.0	13.5	12.5
25	10.0	6.5	11.5	10.0	16.0	13.0	14.5	11.5	13.0	12.0	13.5	12.0
26	10.0	6.5	12.0	9.5	17.0	13.5	16.0	11.5	15.5	12.0	13.0	12.5
27	10.0	6.5	13.0	10.0	16.5	13.0	16.5	11.5	14.5	12.0	13.5	12.5
28	9.5	6.5	13.5	11.5	17.0	14.0	15.5	11.5	12.0	11.5	12.5	11.5
29	8.5	6.0	14.0	12.0	15.5	14.0	16.5	11.5	13.5	12.0	13.5	12.5
30	8.5	6.0	13.5	12.5	15.5	13.0	20.5	12.0	13.5	12.0	13.5	12.5
31	---	---	13.0	12.5	---	---	19.0	12.0	14.5	11.5	---	---
MONTH	10.0	5.5	---	---	17.0	11.5	20.5	11.5	17.0	11.5	15.0	11.5

## SAN JOAQUIN RIVER BASIN

11299997 STANISLAUS RIVER BELOW TULLOCH POWERPLANT, NEAR KNIGHTS FERRY, CALIF.

LOCATION.--Lat 37°52'34", long 120°36'15", in Rancheria del Rio Estanislao Grant, T.1 S., R.12 E., on Calaveras-Tuolumne County line, in south corner of Tulloch powerplant at downstream side of Tulloch Dam, and 5.2 miles northeast of Knights Ferry.

DRAINAGE AREA.--980 sq mi.

PERIOD OF RECORD.--Water temperatures: June 1972 to September 1973.

## EXTREMES, 1972-73:

Water temperatures: Maximum, 20.5°C on many days during September; minimum recorded, 5.0°C Jan. 13.

Period of record:

Water temperatures: Maximum, 22.0°C on many days in 1972; minimum recorded, 5.0°C Jan. 13, 1973.

REMARKS.--No record Nov. 10 to Jan. 8.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	19.0	15.0	14.5	---	---	---	---	6.0	6.0	7.0	7.0
2	19.5	19.0	15.5	14.5	---	---	---	---	6.0	6.0	7.0	7.0
3	19.5	18.5	15.0	14.5	---	---	---	---	6.0	6.0	7.5	7.0
4	19.0	18.5	15.0	14.5	---	---	---	---	6.0	6.0	7.5	7.0
5	19.0	18.5	15.0	14.5	---	---	---	---	6.0	6.0	7.5	7.0
6	19.0	18.5	14.5	14.0	---	---	---	---	6.0	6.0	7.5	7.0
7	19.0	18.5	14.5	14.0	---	---	---	---	6.0	6.0	7.5	7.0
8	19.0	18.0	14.5	14.0	---	---	---	---	6.0	6.0	7.5	7.0
9	18.5	18.0	14.0	14.0	---	---	6.0	6.0	6.0	5.5	7.5	7.0
10	19.0	17.5	---	---	---	---	6.0	5.5	6.0	6.0	7.5	7.0
11	18.0	17.5	---	---	---	---	5.5	5.5	6.5	6.0	7.5	7.0
12	18.0	17.5	---	---	---	---	5.5	5.5	6.5	6.0	7.5	7.5
13	18.5	17.0	---	---	---	---	5.5	5.0	6.5	6.0	7.5	7.5
14	18.0	17.0	---	---	---	---	5.5	5.5	6.5	6.5	7.5	7.5
15	18.0	17.0	---	---	---	---	5.5	5.5	6.5	6.5	7.5	7.5
16	17.0	17.0	---	---	---	---	6.0	5.5	6.5	6.5	7.5	7.5
17	17.0	16.5	---	---	---	---	6.0	5.5	7.0	6.5	7.5	7.5
18	17.0	16.5	---	---	---	---	6.5	5.5	6.5	6.5	7.5	7.5
19	16.5	16.5	---	---	---	---	6.5	6.0	7.0	6.5	7.5	7.5
20	16.5	16.5	---	---	---	---	6.5	6.0	7.0	6.5	7.5	7.5
21	17.0	16.0	---	---	---	---	6.5	6.5	7.0	6.5	7.5	7.5
22	17.0	16.0	---	---	---	---	6.5	6.5	6.5	6.5	7.5	7.5
23	17.0	16.0	---	---	---	---	6.5	6.5	7.0	6.5	7.5	7.5
24	16.5	16.0	---	---	---	---	6.5	6.5	7.0	6.5	8.0	7.5
25	17.0	15.5	---	---	---	---	6.5	6.5	7.0	6.5	8.0	7.5
26	16.5	15.5	---	---	---	---	6.5	6.5	7.0	6.5	8.0	7.5
27	16.0	15.5	---	---	---	---	6.5	6.5	7.0	6.5	8.0	8.0
28	15.5	15.5	---	---	---	---	6.5	6.5	7.0	6.5	8.0	8.0
29	15.5	15.0	---	---	---	---	6.5	6.5	---	---	8.0	8.0
30	16.0	15.0	---	---	---	---	6.5	6.5	---	---	8.0	8.0
31	15.0	15.0	---	---	---	---	6.0	6.0	---	---	8.5	8.0
MONTH	19.5	15.0	---	---	---	---	---	---	7.0	5.5	8.5	7.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	10.5	10.5	12.5	12.5	14.0	14.0	17.0	16.5	20.0	19.5
2	9.0	8.5	10.5	10.5	12.5	12.5	14.0	14.0	17.0	17.0	19.5	19.5
3	9.0	8.5	10.5	10.5	12.5	12.0	14.0	14.0	17.0	17.0	19.5	19.5
4	9.0	8.5	10.5	10.5	12.0	12.0	14.0	14.0	17.0	17.0	20.5	20.0
5	9.0	9.0	10.5	10.0	12.0	12.0	14.5	14.5	17.0	17.0	20.5	20.0
6	9.0	9.0	10.5	10.0	12.5	12.0	14.5	14.5	17.5	17.0	20.5	20.0
7	9.5	9.0	10.5	10.0	12.5	12.0	15.0	14.5	17.5	17.5	20.5	20.0
8	9.5	9.0	10.5	10.0	12.5	12.5	15.0	14.5	17.5	17.5	20.5	20.0
9	9.5	9.0	10.5	10.0	12.5	12.5	15.0	15.0	17.5	17.5	20.5	20.0
10	9.5	9.5	10.5	10.0	12.5	12.5	15.0	15.0	17.5	17.5	20.0	20.0
11	10.0	9.5	10.5	10.0	12.5	12.5	15.0	15.0	18.0	17.5	20.0	20.0
12	10.0	9.5	10.5	10.0	13.0	12.5	15.0	15.0	18.0	18.0	20.0	20.0
13	10.0	10.0	10.5	10.0	13.0	13.0	15.0	15.0	18.0	18.0	20.0	20.0
14	10.0	10.0	10.5	10.0	13.0	13.0	15.5	15.0	18.0	18.0	20.5	20.0
15	10.0	10.0	10.5	10.5	13.0	13.0	15.5	15.0	18.5	18.0	20.5	20.0
16	10.0	10.0	10.5	10.5	13.0	13.0	15.5	15.5	18.5	18.5	20.5	20.0
17	10.0	9.5	10.5	10.5	13.5	13.0	15.5	15.5	18.5	18.5	20.5	20.0
18	10.0	9.5	10.5	10.5	13.5	13.0	15.5	15.5	18.5	18.5	20.5	20.0
19	10.0	9.5	10.5	10.5	13.5	13.0	15.5	15.5	19.0	18.5	20.5	20.0
20	10.0	9.5	10.5	10.5	13.5	13.5	16.0	15.5	19.0	19.0	20.0	20.0
21	10.0	9.5	11.0	10.5	13.5	13.5	16.0	15.5	19.0	19.0	20.0	20.0
22	10.0	9.5	11.0	11.0	13.5	13.5	16.0	16.0	19.5	19.0	20.0	19.5
23	10.0	9.5	11.5	11.0	13.5	13.5	16.0	16.0	19.5	19.5	20.0	19.5
24	10.0	9.5	11.5	11.0	13.5	13.5	16.0	16.0	20.0	19.5	20.0	19.5
25	10.0	9.5	11.5	11.5	13.5	13.5	16.0	16.0	20.0	19.5	19.5	19.0
26	10.0	10.0	12.0	11.5	13.5	13.5	16.5	16.0	20.0	20.0	19.5	19.0
27	10.5	10.0	12.0	12.0	14.0	13.5	16.5	16.5	20.0	19.5	19.0	18.5
28	10.5	10.0	12.0	12.0	14.0	13.5	16.5	16.5	20.0	19.5	19.0	18.5
29	10.5	10.0	12.5	12.0	14.0	14.0	16.5	16.5	20.0	19.5	19.0	18.0
30	10.5	10.0	12.5	12.0	14.0	14.0	16.5	16.5	20.0	19.5	18.5	18.0
31	---	---	12.5	12.5	---	---	16.5	16.5	19.5	19.5	---	---
MONTH	10.5	8.0	12.5	10.0	14.0	12.0	16.5	14.0	20.0	16.5	20.5	18.0



## 11302000 STANISLAUS RIVER BELOW GOODWIN DAM, NEAR KNIGHTS FERRY, CALIF.

LOCATION.--Lat 37°51'28", long 120°38'03", in SW¼SE¼ sec.10, T.1 S., R.12 E., Tuolumne County, temperature recorder at cableway A-frame on left bank, 0.5 mile upstream from Owl Creek, 0.5 mile downstream from Goodwin Dam, and 3.3 miles northeast of Knights Ferry. Prior to July 28, 1973, temperature recorder at gaging station on right bank 2,300 ft downstream.

DRAINAGE AREA.--986 sq mi.

PERIOD OF RECORD.--Water temperatures: February 1966 to September 1973.

## EXTREMES, 1972-73:

Water temperatures: Maximum, 27.5°C Aug. 1, 6, 14, 15; minimum, 7.0°C on several days during December and February.

## Period of record:

Water temperatures: Maximum, 27.5°C Aug. 1, 6, 14, 15, 1973; minimum (1966-68, 1969-73), 5.5°C Feb. 3, 1972.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	21.5	14.5	14.5	13.0	13.0	7.5	7.5	8.0	7.0	8.0	7.5
2	21.5	21.5	14.5	13.5	13.0	13.0	8.0	7.5	7.0	7.0	8.0	7.5
3	22.0	21.5	14.0	13.5	13.0	13.0	8.0	7.5	7.5	7.0	8.0	8.0
4	22.0	21.5	14.0	14.0	13.0	13.0	8.0	7.5	7.5	7.0	8.0	8.0
5	21.5	19.5	14.0	14.0	13.0	12.5	8.0	7.5	7.5	7.0	8.0	7.5
6	19.5	19.5	14.0	14.0	12.5	12.5	8.0	7.5	7.5	7.5	8.5	8.0
7	19.5	19.0	14.0	13.5	12.5	12.5	8.0	7.5	7.5	7.0	8.5	8.0
8	19.0	19.0	13.5	13.0	12.5	12.0	8.0	8.0	7.5	7.0	8.5	8.0
9	19.0	19.0	13.5	13.0	12.0	12.0	8.0	8.0	7.5	7.0	8.5	8.5
10	19.0	19.0	13.5	13.5	12.0	12.0	8.0	8.0	7.5	7.0	8.5	8.5
11	19.0	18.5	13.5	13.5	12.0	12.0	8.0	8.0	7.5	7.5	9.0	8.0
12	18.5	18.0	13.5	13.0	12.0	11.5	8.0	7.5	7.5	7.0	9.0	8.5
13	18.5	18.0	13.5	13.0	11.5	11.5	8.0	7.5	7.5	7.5	9.0	8.5
14	18.5	18.0	13.0	13.0	11.5	11.0	7.5	7.5	8.0	7.5	9.0	8.5
15	18.5	18.0	13.0	13.0	11.0	11.0	7.5	7.5	8.0	7.5	9.0	8.5
16	18.0	17.0	13.0	13.0	11.0	11.0	7.5	7.5	8.0	7.5	9.0	8.5
17	17.0	17.0	13.0	13.0	11.0	11.0	7.5	7.5	8.0	7.5	9.0	9.0
18	17.5	17.0	13.0	13.0	11.0	11.0	7.5	7.5	8.0	7.5	9.0	8.5
19	17.5	17.0	13.5	13.0	11.0	11.0	8.0	7.5	8.0	7.5	9.0	9.0
20	17.0	17.0	13.5	13.0	11.0	10.5	8.0	7.5	8.0	7.5	9.0	8.5
21	17.5	17.0	13.5	13.0	11.0	9.5	8.0	8.0	8.0	8.0	9.0	9.0
22	17.0	16.5	13.5	13.0	10.5	10.0	8.0	7.5	8.0	7.5	9.0	8.5
23	16.5	16.5	13.5	13.0	10.0	9.5	8.0	7.5	8.0	8.0	9.0	8.5
24	16.5	16.5	13.5	13.0	9.5	9.5	8.0	8.0	8.0	8.0	9.0	8.5
25	16.5	16.5	13.5	13.0	9.5	9.5	8.0	8.0	8.0	8.0	9.0	8.5
26	16.5	16.0	13.5	13.0	9.5	9.0	8.5	8.0	8.0	8.0	9.0	9.0
27	16.0	16.0	13.0	13.0	9.0	8.0	8.5	8.0	8.0	8.0	9.0	8.5
28	16.0	15.5	13.0	13.0	8.5	7.0	8.0	7.5	8.0	7.5	9.0	8.5
29	16.0	15.5	13.0	13.0	8.5	8.0	8.0	8.0	---	---	9.0	8.5
30	15.5	15.0	13.0	13.0	8.5	8.0	8.0	7.5	---	---	9.5	8.5
31	15.0	14.5	---	---	8.0	7.5	8.0	7.5	---	---	9.5	9.0
MONTH	22.0	14.5	14.5	13.0	13.0	7.0	8.5	7.5	8.0	7.0	9.5	7.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	13.5	13.0	14.0	13.5	24.5	23.0	27.5	21.5	25.0	21.0
2	9.5	9.0	13.5	13.0	14.0	13.5	24.0	23.5	26.0	21.5	25.0	21.0
3	9.5	9.0	13.5	13.0	14.0	13.5	24.0	23.0	27.0	21.5	24.0	21.0
4	9.5	9.0	13.5	13.0	14.0	13.5	24.0	23.0	26.0	22.5	25.0	21.0
5	10.0	9.0	13.5	13.0	14.0	13.5	25.0	24.0	26.5	22.0	24.5	21.0
6	10.0	9.5	13.5	13.0	14.0	13.5	25.0	24.5	27.5	22.5	25.0	20.5
7	10.0	9.5	13.0	12.5	14.5	14.0	25.0	24.0	27.0	22.0	25.0	20.5
8	10.5	10.0	13.0	12.5	14.5	14.0	25.0	24.5	26.5	22.0	25.0	20.5
9	10.5	10.0	13.0	12.5	14.5	14.0	25.0	24.5	26.5	21.5	25.0	20.5
10	11.0	10.5	13.5	12.5	14.5	14.0	25.0	24.5	26.5	21.5	25.0	21.0
11	11.0	10.5	13.5	12.5	14.5	14.5	25.5	24.5	27.0	22.5	25.0	21.0
12	11.0	10.5	13.5	12.5	14.5	14.5	25.5	25.0	27.0	22.5	25.0	21.0
13	11.0	10.5	13.5	12.5	15.0	14.5	25.5	24.5	27.0	22.5	25.0	21.5
14	11.0	10.5	13.5	13.0	15.0	14.5	25.0	24.5	27.5	23.0	25.0	20.5
15	11.0	10.5	13.5	13.0	15.5	15.0	25.0	24.0	27.5	23.0	24.5	20.0
16	11.5	10.5	13.5	13.0	15.5	15.0	25.0	24.0	26.5	22.5	24.5	20.0
17	11.5	11.5	13.0	12.5	15.5	15.0	25.0	24.0	26.0	22.0	24.0	20.0
18	11.5	11.5	13.0	12.5	17.0	15.5	24.0	24.0	26.0	22.0	24.5	20.0
19	11.5	11.5	13.0	12.5	20.0	17.0	24.0	24.0	26.0	22.0	25.0	20.5
20	11.5	11.0	13.0	12.5	21.5	19.5	24.0	23.5	26.0	22.0	25.0	21.0
21	11.5	11.0	13.0	12.5	22.5	21.0	23.5	23.0	25.5	21.5	24.5	20.0
22	11.5	11.0	13.0	12.5	22.5	21.0	24.0	23.0	25.0	21.0	21.0	20.0
23	11.5	11.0	13.0	12.5	21.5	21.0	24.0	24.0	24.5	20.5	23.5	19.0
24	11.5	11.0	13.0	13.0	22.0	21.0	24.0	23.5	24.5	20.5	22.0	19.5
25	12.0	11.5	13.0	13.0	23.0	21.5	24.5	23.5	24.5	21.0	23.0	18.5
26	12.5	12.0	13.0	12.5	24.5	22.5	25.0	24.0	24.5	21.0	23.5	18.5
27	12.5	12.0	13.0	12.5	24.5	23.5	25.0	24.5	24.5	21.0	23.5	19.0
28	13.0	12.0	13.5	13.0	24.5	23.5	26.5	22.0	25.0	21.0	23.5	19.0
29	13.0	13.0	13.5	13.0	24.5	24.0	26.5	21.5	26.0	21.5	23.5	19.0
30	13.0	13.0	13.5	13.0	24.0	23.5	23.5	18.5	26.0	21.5	23.0	19.0
31	---	---	13.5	13.0	---	---	26.5	19.5	25.5	21.5	---	---
MONTH	13.0	9.0	13.5	12.5	24.5	13.5	26.5	18.5	27.5	20.5	25.0	18.5

## SAN JOAQUIN RIVER BASIN

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.  
(International Hydrological Decade River, national stream quality accounting network, and pesticide station)

LOCATION.--Lat 37°40'34", long 121°15'55", in El Pescadero Grant, San Joaquin County, at gaging station on left bank, 12 ft downstream from Durham Ferry highway bridge, 2.6 miles downstream from Stanislaus River, and 3.2 miles northeast of Vernalis.

DRAINAGE AREA.--13,536 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1950 to September 1973.

Specific conductance: January to September 1973.

Water temperatures: March 1951 to September 1973.

Sediment records: November 1956 to September 1973.

Turbidity: July 1972 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 28.5°C June 28; minimum, 5.0°C on several days during December.

Sediment concentrations: Maximum daily, 396 mg/l Feb. 13; minimum daily, 24 mg/l Oct. 31.

Sediment discharge: Maximum daily, 11,900 tons Feb. 13; minimum daily, 93 tons Oct. 31.

Period of record:

Water temperatures: Maximum, 30.0°C July 7, 1970; minimum, 3.0°C Jan. 24, 1962.

Sediment concentrations (1956-73): Maximum daily, 1,590 mg/l Dec. 25, 1964; minimum daily, 9 mg/l Jan. 4, 1960, Nov. 18, 1961.

Sediment discharge (1956-73): Maximum daily, 54,100 tons Dec. 25, 1964; minimum daily, 2 tons Aug. 10, 1961.

REMARKS.--Selected chemical-quality samples collected by California Department of Water Resources. Mean daily specific conductance records furnished by Bureau of Reclamation.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)
OCT.										
19...	0700	1790	20	30	30	16	72	3.7	129	0
NOV.										
15...	0930	2150	18	50	31	15	79	5.4	146	0
DEC.										
14...	0830	2450	14	20	33	17	88	2.8	118	0
JAN.										
24...	1035	5680	17	60	30	15	77	3.7	114	0
FEB.										
02...	1120	4660	15	50	28	15	78	3.1	110	0
23...	0750	9540	17	70	25	11	55	3.2	106	0
MAR.										
20...	1100	6550	18	--	32	17	70	2.4	119	0
APR.										
18...	0915	3620	18	40	34	17	73	3.1	117	0
25...	1315	2140	19	--	44	22	100	3.5	153	0
MAY										
17...	0730	2070	23	9	37	18	78	3.7	139	0
23...	1100	4510	12	30	16	8.3	34	1.6	66	0
JUNE										
15...	0700	2310	14	70	29	14	53	2.2	107	0
26...	1030	1420	16	--	41	20	88	3.7	158	0
JULY										
19...	0715	1020	18	20	49	25	110	4.4	184	0
25...	1030	1170	17	--	41	21	91	4.1	160	0
AUG.										
16...	0830	1120	18	20	46	22	110	4.5	174	0
21...	1100	1040	21	20	44	20	95	4.4	174	0
SEP.										
20...	0645	1510	22	20	43	20	94	4.9	173	0

DATE	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.										
19...	106	57	100	.3	--	.90	--	--	.26	--
NOV.										
15...	120	63	100	.3	--	1.3	--	--	.58	--
DEC.										
14...	97	91	100	.3	--	.86	--	--	.20	--
JAN.										
24...	94	91	81	.2	--	1.1	--	--	.30	--
FEB.										
02...	90	90	82	.1	1.6	--	.99	2.6	.27	390
23...	87	61	58	.2	--	.72	--	--	.27	--
MAR.										
20...	98	87	85	.1	.80	--	.84	1.6	.21	404
APR.										
18...	96	75	96	.0	--	.84	--	--	.27	--
25...	126	110	130	.2	1.1	--	1.2	2.3	.34	520
MAY										
17...	114	69	110	.3	--	.68	--	--	.19	--
23...	54	34	48	.2	.13	--	.68	.81	.08	184
JUNE										
15...	88	36	85	.1	--	.52	--	--	.20	--
26...	130	68	130	.3	.83	--	1.5	2.3	.32	453
JULY										
19...	151	90	170	.2	--	.93	--	--	.18	--
25...	131	71	130	.2	.87	--	1.3	2.2	.34	510
AUG.										
16...	143	69	150	.2	--	1.1	--	--	.35	--
21...	143	80	140	.2	1.1	--	1.4	2.5	.32	519
SEP.										
20...	142	68	130	.2	--	1.4	--	--	.29	--

## SAN JOAQUIN RIVER BASIN

305

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
OCT.										
19...	367	.50	1770	140	35	52	2.6	662	6.9	--
NOV.										
15...	390	.53	2260	140	19	54	2.9	550	7.4	12.0
DEC.										
14...	409	.56	2710	150	56	55	3.1	440	7.4	5.0
JAN.										
24...	377	.51	5780	140	43	54	2.9	420	7.4	--
FEB.										
02...	366	.53	4910	130	41	56	3.0	649	7.5	9.5
23...	286	.39	7370	110	21	52	2.3	800	7.4	--
MAR.										
20...	370	.55	7150	150	52	50	2.5	631	8.0	12.0
APR.										
18...	378	.51	3700	160	59	50	2.6	500	7.4	15.0
25...	504	.71	3010	200	75	52	3.1	895	8.0	20.5
MAY										
17...	411	.56	2300	170	53	50	2.6	700	7.6	--
23...	187	.25	2240	74	20	49	1.7	330	7.8	17.0
JUNE										
15...	289	.39	1800	130	43	46	2.0	450	7.6	18.0
26...	445	.62	1740	180	55	50	2.8	773	8.3	24.5
JULY										
19...	562	.76	1550	230	75	51	3.2	900	8.1	21.0
25...	454	.69	1610	190	58	51	2.9	828	8.3	24.0
AUG.										
16...	511	.70	1550	210	63	53	3.3	820	7.7	25.0
21...	491	.71	1460	190	50	51	3.0	--	--	23.0
SEP.										
20...	474	.64	1930	190	48	51	3.0	700	7.4	21.5

DATE	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)
OCT.									
19...	20	--	--	--	--	--	220	10	320
NOV.									
15...	50	8.9	--	--	--	--	320	0	440
DEC.									
14...	7	11.5	--	--	--	--	410	0	430
JAN.									
24...	40	9.7	--	--	--	--	480	0	330
FEB.									
02...	30	--	828000	600	1500	6.5	--	--	--
23...	30	8.2	--	--	--	--	310	0	250
MAR.									
20...	30	--	5400	520	650	--	--	--	--
APR.									
18...	30	9.9	--	--	--	--	310	0	350
25...	40	--	4000	300	110	--	--	--	--
MAY									
17...	30	9.0	--	--	--	--	250	10	400
23...	20	--	16000	230	500	7.0	--	--	--
JUNE									
15...	30	9.1	--	--	--	--	130	0	350
26...	40	--	13000	240	240	--	--	--	--
JULY									
19...	40	9.4	--	--	--	--	350	10	650
25...	60	--	40000	8240	200	--	--	--	--
AUG.									
16...	40	9.7	--	--	--	--	290	10	540
21...	30	--	14000	112	220	--	--	--	--
SEP.									
20...	20	7.9	--	--	--	--	240	10	540

## SAN JOAQUIN RIVER BASIN

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT.									
19...	0700	1790	129	0	106	662	6.9	20	--
NOV.									
15...	0930	2150	146	0	120	550	7.4	50	8.9
DEC.									
14...	0830	2450	118	0	97	440	7.4	7	11.5
JAN.									
24...	1000	5690	--	--	--	--	7.7	--	10.2
24...	1035	5680	114	0	94	420	7.4	40	9.7
24...	1200	5660	--	--	--	--	7.8	--	10.4
24...	1400	5630	--	--	--	--	7.7	--	10.3
24...	1600	5600	--	--	--	--	7.6	--	10.3
24...	1800	5570	--	--	--	--	7.6	--	10.3
24...	2000	5530	--	--	--	--	7.6	--	10.3
24...	2200	5500	--	--	--	--	7.6	--	10.2
25...	0100	5480	--	--	--	--	7.5	--	10.2
25...	0400	5450	--	--	--	--	7.6	--	10.0
25...	0600	5430	--	--	--	--	7.7	--	10.3
25...	0800	5410	--	--	--	--	7.7	--	10.1
FEB.									
02...	1120	4660	110	0	90	649	7.5	--	--
23...	0750	9540	106	0	87	800	7.4	30	8.2
MAR.									
20...	1100	6550	119	0	98	631	8.0	36	--
APR.									
18...	0915	3620	117	0	96	500	7.4	30	9.9
25...	1315	2140	153	0	126	895	8.0	--	--
MAY									
17...	0730	2070	139	0	114	700	7.6	30	9.0
23...	1100	4510	66	0	54	330	7.8	20	--
24...	1000	3210	--	--	--	--	7.9	--	9.3
24...	1200	3140	--	--	--	421	7.9	--	9.5
24...	1400	3060	--	--	--	--	8.0	--	9.9
24...	1600	2980	--	--	--	421	8.1	--	10.0
24...	1800	2900	--	--	--	--	7.9	--	9.9
24...	2000	2820	--	--	--	--	7.9	--	9.6
24...	2300	2740	--	--	--	--	7.7	--	9.2
25...	0100	2640	--	--	--	--	7.7	--	9.0
25...	0400	2590	--	--	--	--	7.6	--	8.6
25...	0600	2560	--	--	--	459	7.6	--	8.5
25...	0800	2560	--	--	--	--	7.7	--	8.6
JUNE									
15...	0700	2310	107	0	88	450	7.6	30	9.1
26...	1030	1420	158	0	130	773	8.3	40	--
JULY									
17...	1000	1170	--	--	--	938	8.1	--	9.2
17...	1200	1170	173	0	142	935	8.3	--	10.1
17...	1400	1170	--	--	--	917	8.4	--	11.7
17...	1600	1170	--	--	--	902	8.6	--	12.9
17...	1800	1150	158	6	140	902	8.6	--	13.5
17...	2000	1140	--	--	--	905	8.5	--	12.9
17...	2400	1100	167	0	137	899	8.3	--	10.7
18...	0400	1090	--	--	--	898	7.9	--	8.5
18...	0600	1090	166	0	136	892	7.9	--	8.1
18...	0800	1090	--	--	--	897	7.9	--	7.8
19...	0715	1020	184	0	151	900	8.1	40	9.4
25...	1030	1170	160	0	131	828	8.3	--	--
AUG.									
16...	0830	1120	174	0	143	820	7.7	40	9.7
21...	1100	1040	174	0	143	--	--	30	--
SEP.									
20...	0645	1510	173	0	142	700	7.4	20	7.9

## SAN JOAQUIN RIVER BASIN

307

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

## PHYTOPLANKTON

DATE	PHYLUM .Class ..Order ...Family ....Genus .....Species	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
FEB. 02...	CHLOROPHYTA .Chlorophyceae ....Ulothrix	Green algae	1200	15
	CYANOPHYTA .Myxophyceae ....Anabaena	Blue-green algae	3600	44
	TOTAL PHYTOPLANKTON		8100	
MAR. 20...	CYANOPHYTA .Myxophyceae ....Anabaena	Blue-green algae	6800	70
	TOTAL PHYTOPLANKTON		9700	
APR. 25...	CHLOROPHYTA .Chlorophyceae ....Scenedesmus	Green algae	1800	15
	CYANOPHYTA .Myxophyceae ....Anabaena ....Circinalis	Blue-green algae	4100	34
	TOTAL PHYTOPLANKTON		12000	
MAY 23...	CHLOROPHYTA .Chlorophyceae ....Scenedesmus	Green algae	1400	25
	CHRYSTOPHYTA .Bacillariophyceae ....Cyclotella	Diatoms	2000	35
	TOTAL PHYTOPLANKTON		5800	
JUNE 26...	CHLOROPHYTA .Chlorophyceae ....Scenedesmus	Green algae	2600	16
	CHRYSTOPHYTA .Bacillariophyceae ....Cyclotella	Diatoms	10000	64
	TOTAL PHYTOPLANKTON		16000	
JULY 25...	CHRYSTOPHYTA .Bacillariophyceae ....Cyclotella	Diatoms	7600	15
	CYANOPHYTA .Myxophyceae ....Oscillatoria	Blue-green algae	34000	67
	TOTAL PHYTOPLANKTON		51000	
AUG. 21...	CHRYSTOPHYTA .Bacillariophyceae ....Cyclotella	Diatoms	25000	32
	CYANOPHYTA .Myxophyceae ....Oscillatoria	Blue-green algae	27000	35
	TOTAL PHYTOPLANKTON		77000	
SEP. 19...	CYANOPHYTA .Myxophyceae ....Agmenellum ....Oscillatoria	Blue-green algae	90000 25000	69 19
	TOTAL PHYTOPLANKTON		130000	

## SAN JOAQUIN RIVER BASIN

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PERIPHYTON 1/

DATE	PHYLUM	COMMON NAME	BIOMASS (G/M <sup>2</sup> )	ASH WEIGHT
	.Class ..Order ...Family ....Genus .....Species			
MAR. 20...	CHRYSTOPHYTA .Bacillariophyceae ...Navicula ...Nitzschia ...Synedra	Diatoms		
	TOTAL PERIPHYTON		12	.8
MAY 23...	CHRYSTOPHYTA .Bacillariophyceae ...Synedra	Diatoms		
	TOTAL PERIPHYTON		79	72
AUG. 21...	CHLOROPHYTA .Chlorophyceae ...Oedogonium ...Spirogyra	Green algae		
	CHRYSTOPHYTA .Bacillariophyceae ...Navicula ...Synedra	Diatoms		
	CYANOPHYTA .Myxophyceae ...Lyngbya	Blue-green algae		
	TOTAL PERIPHYTON		40	31

1/ Collected from polyethylene strip artificial substrate.BENTHIC INVERTEBRATES 1/

DATE	PHYLUM	COMMON NAME	ORGANISM COUNT	BIOMASS (G/M <sup>2</sup> ) WET WEIGHT
	.Class ..Order ...Family ....Genus .....Species			
MAR. 20...	ARTHROPODA .Crustacea ..Amphipoda ..Isopoda	Scuds Sow-bugs	35 2	
	.Insecta ..Diptera ...Chironomidae ..Trichoptera	Two-winged flies Caddisflies	14 1	
	TOTAL		52	3.1
JUNE 26...	ARTHROPODA .Crustacea ..Amphipoda	Scuds	31	
	.Insecta ..Diptera ...Chironomidae ..Ephemeroptera ..Trichoptera	Two-winged flies Mayflies Caddisflies	1 1 1	
	TOTAL		34	1.8

1/ Collected from multiplate artificial substrate.



## SAN JOAQUIN RIVER BASIN

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)
FEB. 02...	1120	1200	170	20	4	0	20	0	30	0	50
MAY 23...	1100	2200	150	0	4	2	0	0	0	0	<25
AUG. 21...	1100	4000	370	40	5	4	<10	0	10	0	<25

DATE	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
FEB. 02...	2	40	10	200	2	.1	.1	5	2	50	20
MAY 23...	1	120	16	<100	2	.0	.0	1	0	30	10
AUG. 21...	1	10	14	<50	1	.0	.0	5	6	120	30

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), JANUARY TO SEPTEMBER 1973  
(MEAN VALUES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	730	700	610	450	550	240	760	900	---
2	---	---	---	735	675	600	440	560	240	770	860	---
3	---	---	---	745	680	550	420	570	290	845	820	---
4	---	---	---	705	695	520	385	645	315	840	815	---
5	---	---	---	675	745	640	405	630	295	830	815	---
6	---	---	---	620	785	730	460	710	310	910	805	---
7	---	---	---	605	745	705	480	775	320	905	865	---
8	---	---	---	660	610	620	470	760	310	910	890	---
9	---	---	---	685	685	533	460	770	305	910	905	---
10	---	---	---	650	645	415	500	780	320	955	935	---
11	---	---	---	580	630	410	505	815	310	940	890	---
12	---	---	---	470	430	495	500	820	300	900	840	---
13	---	---	---	460	240	590	570	835	350	915	855	824
14	---	---	---	375	260	630	615	825	485	960	855	821
15	---	---	---	450	270	590	590	880	545	910	850	836
16	---	---	---	500	240	635	615	880	570	910	840	702
17	---	---	---	510	260	675	635	680	580	935	830	760
18	---	---	---	360	325	640	645	355	630	925	790	774
19	---	---	---	385	380	630	700	320	710	965	780	797
20	---	---	---	320	410	650	720	350	750	940	850	786
21	---	---	---	375	425	620	735	350	670	860	835	740
22	---	---	---	450	440	585	---	340	765	835	870	773
23	---	---	---	565	460	415	---	330	710	830	900	761
24	---	---	---	625	510	380	830	405	700	835	840	757
25	---	---	---	670	570	370	880	455	720	835	---	747
26	---	---	---	690	705	410	850	425	750	890	---	712
27	---	---	---	700	745	475	670	320	805	945	---	---
28	---	---	---	735	740	455	620	265	755	930	810	650
29	---	---	---	775	---	415	615	295	710	865	825	---
30	---	---	---	805	---	400	600	290	710	865	---	---
31	---	---	---	760	---	435	---	260	---	860	---	---
MONTH	---	---	---	593	536	543	584	556	516	887	849	---



## SAN JOAQUIN RIVER BASIN

311

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT		MIN	NOV		MIN	DEC		MIN	JAN		MIN	FEB		MIN	MAR		MIN
	MAX	DAILY		MAX	DAILY		MAX	DAILY		MAX	DAILY		MAX	DAILY		MAX	DAILY	
1	--	19.0	--	--	13.0	--	--	9.0	--	8.5	--	7.0	10.0	--	9.0	13.5	--	13.0
2	--	18.0	--	--	14.0	--	--	8.0	--	8.5	--	7.0	10.0	--	9.0	14.0	--	12.5
3	--	20.0	--	--	13.0	--	--	8.5	--	8.5	--	7.5	10.0	--	9.5	13.5	--	13.0
4	--	21.0	--	--	15.0	--	--	9.0	--	8.5	--	7.0	10.0	--	9.5	13.5	--	13.0
5	--	18.0	--	--	19.0	--	9.0	--	8.0	7.5	--	6.5	10.5	--	9.5	13.5	--	12.5
6	--	20.0	--	--	16.0	--	8.0	--	7.5	7.5	--	6.5	10.5	--	9.5	13.0	--	13.0
7	--	19.0	--	--	15.0	--	8.0	--	7.0	7.0	--	6.0	--	11.0	--	13.0	--	12.0
8	--	19.5	--	--	15.0	--	7.5	--	6.5	7.0	--	6.5	--	12.5	--	13.0	--	12.5
9	--	20.0	--	--	13.0	--	7.0	--	5.5	8.5	--	7.0	--	12.0	--	13.0	--	12.5
10	--	19.5	--	--	13.0	--	6.0	--	5.0	9.5	--	8.5	--	12.0	--	13.0	--	12.5
11	--	20.0	--	--	12.0	--	5.5	--	5.0	10.0	--	9.5	--	11.0	--	13.5	--	12.5
12	--	17.0	--	--	13.0	--	5.5	--	5.0	--	9.0	--	12.0	--	--	13.5	--	13.0
13	--	17.0	--	--	13.0	--	6.0	--	5.0	10.5	--	9.5	--	10.0	--	13.0	--	12.5
14	--	17.0	--	--	12.0	--	6.0	--	5.0	10.5	--	10.0	--	11.0	--	13.0	--	12.0
15	--	16.5	--	--	12.0	--	6.0	--	5.0	10.5	--	10.0	--	11.0	--	13.0	--	11.5
16	--	17.0	--	--	13.0	--	6.0	--	5.5	11.0	--	10.5	--	10.0	--	13.5	--	12.0
17	--	17.0	--	--	12.0	--	7.0	--	5.5	11.0	--	10.0	--	11.0	--	13.5	--	13.0
18	--	18.0	--	--	12.5	--	9.0	--	7.0	10.5	--	9.5	--	12.0	--	13.5	--	12.0
19	--	16.0	--	--	11.5	--	10.0	--	8.5	10.0	--	9.0	--	11.0	--	13.0	--	12.0
20	--	17.0	--	--	12.5	--	11.0	--	9.5	9.0	--	8.5	--	11.5	--	12.5	--	11.5
21	--	16.0	--	--	12.0	--	11.0	--	10.0	9.0	--	8.0	12.5	--	11.5	12.0	--	11.0
22	--	16.5	--	--	11.0	--	11.5	--	10.5	8.5	--	8.0	13.0	--	11.5	12.0	--	10.5
23	--	16.0	--	--	12.0	--	11.5	--	10.0	8.5	--	8.0	13.5	--	12.0	12.5	--	11.0
24	--	17.0	--	--	10.0	--	11.5	--	10.5	8.5	--	7.5	14.0	--	12.5	13.0	--	11.0
25	--	16.0	--	--	9.5	--	10.5	--	9.5	8.5	--	7.5	14.0	--	13.0	13.5	--	12.0
26	--	16.0	--	--	10.0	--	10.0	--	9.5	9.0	--	8.0	14.0	--	12.5	14.0	--	13.0
27	--	16.0	--	--	8.5	--	10.0	--	9.0	8.5	--	7.5	13.5	--	12.5	14.0	--	13.0
28	--	16.0	--	--	10.5	--	9.5	--	8.5	8.5	--	7.5	13.5	--	12.0	14.0	--	12.0
29	--	16.0	--	--	10.0	--	9.0	--	8.0	8.5	--	7.5	--	--	--	13.0	--	12.5
30	--	14.0	--	--	9.5	--	8.5	--	7.5	9.5	--	8.0	--	--	--	12.5	--	11.5
31	--	13.0	--	--	--	--	8.5	--	7.5	10.0	--	8.5	--	--	--	13.0	--	12.0
MONTH	--	17.5	--	--	12.5	--	11.5	--	5.0	11.0	--	6.0	--	--	--	14.0	--	10.5
DAY	APR		MIN	MAY		MIN	JUN		MIN	JUL		MIN	AUG		MIN	SEP		MIN
	MAX	DAILY		MAX	DAILY		MAX	DAILY		MAX	DAILY		MAX	DAILY		MAX	DAILY	
1	13.5	--	12.5	18.5	--	17.0	19.0	--	18.0	25.5	--	22.5	27.0	--	24.5	23.5	--	21.5
2	13.5	--	12.5	19.0	--	17.0	19.0	--	17.5	25.5	--	23.0	26.5	--	24.0	23.5	--	21.5
3	13.0	--	12.0	19.0	--	17.5	20.0	--	18.0	25.5	--	22.5	27.0	--	24.0	23.0	--	21.5
4	14.0	--	11.5	18.5	--	17.0	20.0	--	19.0	26.5	--	23.5	27.5	--	24.5	23.5	--	21.0
5	14.5	--	12.5	18.5	--	16.5	20.5	--	19.0	27.0	--	24.5	27.0	--	24.0	23.5	--	21.0
6	16.0	--	14.0	20.0	--	17.0	21.0	--	19.5	25.5	--	23.5	26.5	--	24.0	23.5	--	20.5
7	16.0	--	15.0	20.0	--	18.0	21.5	--	20.0	25.5	--	22.5	26.0	--	23.5	23.5	--	21.0
8	16.5	--	15.0	20.0	--	17.5	21.5	--	20.5	26.0	--	22.5	25.5	--	22.5	23.0	--	20.5
9	16.0	--	14.5	21.0	--	18.5	22.0	--	20.5	27.0	--	23.5	25.0	--	22.0	23.5	--	21.0
10	16.5	--	15.0	21.5	--	19.0	21.0	--	20.0	27.5	--	25.0	25.5	--	21.5	23.5	--	21.5
11	18.0	--	15.0	22.5	--	19.5	20.5	--	19.0	27.0	--	24.0	26.0	--	23.0	23.5	--	21.5
12	18.0	--	16.0	23.0	--	20.5	20.0	--	18.5	27.0	--	24.0	25.5	--	23.0	24.0	--	21.5
13	17.5	--	16.0	23.5	--	21.0	19.5	--	18.5	26.5	--	24.0	25.5	--	23.0	23.5	--	21.5
14	17.0	--	15.5	24.0	--	21.5	20.0	--	18.0	26.5	--	23.5	26.5	--	23.5	23.0	--	21.0
15	16.5	--	15.0	24.0	--	22.0	21.0	--	18.5	25.5	--	23.0	27.0	--	23.5	22.5	--	20.5
16	16.5	--	15.0	24.5	--	22.0	21.5	--	19.0	25.5	--	23.0	26.0	--	24.0	22.0	--	20.5
17	17.5	--	15.0	25.0	--	23.0	21.0	--	19.0	25.5	--	23.0	25.5	--	23.0	22.0	--	20.0
18	16.0	--	14.5	23.0	--	19.5	21.5	--	19.5	25.0	--	23.0	25.5	--	22.5	22.5	--	20.0
19	15.5	--	14.0	20.0	--	19.0	23.5	--	20.5	24.5	--	22.0	25.5	--	22.5	23.0	--	21.0
20	16.0	--	14.5	19.0	--	18.0	25.5	--	22.0	24.0	--	21.5	25.5	--	22.5	23.0	--	21.5
21	16.0	--	14.0	18.0	--	17.0	27.0	--	24.0	24.5	--	21.5	25.0	--	22.5	22.5	--	20.5
22	18.0	--	15.5	18.0	--	17.0	25.5	--	24.0	25.0	--	22.5	23.0	--	19.5	21.5	--	20.0
23	19.5	--	16.5	18.5	--	17.0	24.0	--	22.5	24.5	--	22.5	22.5	--	19.5	21.5	--	19.5
24	20.5	--	17.0	18.5	--	18.0	24.5	--	22.0	25.0	--	22.0	23.0	--	20.0	20.5	--	19.5
25	21.0	--	18.5	19.0	--	17.5	25.5	--	22.5	26.5	--	23.0	24.0	--	21.0	20.5	--	19.0
26	22.0	--	19.5	18.5	--	17.0	27.5	--	24.5	28.0	--	24.0	24.0	--	21.0	20.5	--	18.5
27	21.5	--	19.5	18.0	--	16.5	27.5	--	25.0	28.0	--	24.5	24.0	--	21.5	21.5	--	19.5
28	20.5	--	19.0	18.5	--	17.0	28.5	--	25.5	27.0	--	24.5	24.0	--	21.5	22.0	--	20.0
29	19.5	--	18.0	20.5	--	18.5	27.0	--	25.0	27.0	--	24.5	25.5	--	22.5	22.5	--	20.5
30	19.0	--	17.0	20.0	--	19.5	26.0	--	24.0	27.5	--	24.5	25.5	--	22.5	22.5	--	20.5
31	--	--	--	19.0	--	18.5	--	--	--	27.5	--	25.0	25.0	--	22.5	--	--	--
MONTH	22.0	--	11.5	25.0	--	16.5	28.5	--	17.5	28.0	--	21.5	27.5	--	19.5	24.0	--	18.5

## SAN JOAQUIN RIVER BASIN

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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		106	527	1440	36	140	2730	64	472
2	1840	103	509	1470	46	183	2680	60	434
3	1830	91	491	1490	52	209	2620	58	410
4	2000	74	464	1560	54	227	2540	63	432
5	2320	87	536	1610	60	261	2510	56	380
6	2280								
7	2140	92	532	1530	52	215	2500	48	324
8	2000	90	486	1500	49	198	2500	53	358
9	1980	94	503	1520	51	209	2510	44	298
10	1980	91	486	1550	51	213	2510	35	237
11	1960	90	476	1550	49	205	2510	31	210
12									
13	1930	81	422	1730	100	467	2510	33	224
14	1800	70	340	1880	90	457	2490	33	222
15	1690	54	246	1930	114	594	2470	42	280
16	1650	56	249	2060	180	1000	2450	38	251
17	1680	70	318	2160	127	741	2460	35	232
18									
19	1620	70	306	2380	159	1020	2420	37	242
20	1570	49	208	2700	192	1400	2360	44	280
21	1710	50	231	3000	219	1770	2240	58	351
22	1740	70	329	3020	166	1350	2260	67	409
23	1650	47	209	2830	131	1000	2430	80	525
24									
25	1650	94	419	2660	114	819	2680	108	781
26	2200	103	612	2690	107	777	2750	100	743
27	2580	94	655	2720	103	756	2740	88	651
28	2580	92	641	2770	83	621	2700	81	590
29	2550	108	744	2820	84	640	2580	75	522
30									
31	2650	100	716	2830	83	634	2510	73	495
TOTAL	61740	--	13453	66490	--	18352	77560	--	12372
DAY	JANUARY			FEBRUARY			MARCH		
	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	2300	52	323	4870	107	1410	7920	217	4640
2	2200	49	291	4690	99	1250	7700	139	2890
3	2210	47	280	4590	100	1240	7240	78	1520
4	2240	49	296	4440	114	1370	7280	113	2220
5	2250	55	334	4160	122	1370	7410	90	1800
6									
7	2290	41	254	4080	125	1380	7020	72	1360
8	2290	34	210	4730	292	3730	6680	79	1420
9	2170	32	187	5270	302	4300	7100	94	1800
10	2170	42	246	4900	163	2160	8300	116	2600
11	2350	60	381	4700	134	1700	9380	98	2480
12									
13	3030	89	728	5310	135	1940	9120	99	2440
14	3550	79	757	8200	360	7970	8860	68	1630
15	4070	102	1120	11100	396	11900	8420	119	2710
16	4520	125	1530	11400	228	7020	7720	82	1710
17	3970	102	1090	11500	250	7760	7100	86	1650
18									
19	3740	89	899	12300	201	6680	6730	72	1310
20	4330	143	1670	12900	208	7240	6360	79	1360
21	6410	308	5330	12900	177	6160	6540	92	1620
22	6370	220	3780	12000	165	5350	6550	107	1890
23	6660	224	4030	11000	153	4540	6540	155	2740
24									
25	6520	170	2990	10200	80	2200	6730	133	2420
26	6140	169	2800	9760	135	3560	7230	119	2320
27	5850	130	2050	9500	111	2850	7710	93	1940
28	5620	99	1500	9130	98	2420	8130	85	1870
29	5340	62	894	8590	103	2390	8280	91	2030
30									
31	5070	88	1200	7760	138	2890	8310	108	2420
TOTAL	125830	--	39826	223670	--	108820	235940	--	63960

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	JULY			AUGUST			SEPTEMBER		
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)
1	1250	155	523	1050	173	490	1190	92	296
2	1270	162	555	1050	151	428	1270	92	315
3	1150	160	497	1020	177	487	1380	99	369
4	1190	149	479	1040	165	463	1300	93	326
5	1160	159	498	1050	162	459	1210	82	268
6	1070	183	529	1110	135	405	1170	75	237
7	1010	153	417	1020	114	314	1230	69	229
8	992	156	418	960	116	301	1280	85	294
9	1050	165	468	975	118	311	1380	73	272
10	1050	175	496	960	114	295	1400	71	268
11	986	149	397	1050	122	346	1370	69	255
12	997	182	490	1140	154	474	1380	76	283
13	992	186	498	1100	144	428	1310	75	265
14	955	203	523	1070	154	445	1350	77	281
15	1050	199	564	1050	142	403	1390	77	289
16	1120	180	544	1090	141	415	1500	82	332
17	1140	197	606	1100	131	389	1540	84	349
18	1090	180	530	1080	120	350	1510	85	347
19	997	166	447	1050	118	335	1470	87	345
20	1050	177	502	1100	125	371	1550	90	377
21	1110	173	518	1050	125	354	1590	86	369
22	1140	184	566	955	117	302	1490	81	326
23	1230	185	614	950	121	310	1580	80	341
24	1170	180	589	1070	95	274	1720	75	348
25	1120	180	544	1100	75	223	1720	73	339
26	1020	173	476	1140	99	305	1790	75	362
27	960	180	467	1190	125	402	1770	67	320
28	1000	186	502	1230	141	468	1740	66	310
29	1070	187	540	1150	112	348	1780	65	312
30	1080	166	484	1100	101	300	1760	68	323
31	1080	152	443	1080	99	289	--	--	--
TOTAL	33549	--	15704	33080	--	11484	44120	--	9347

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

1196399  
372698

## SAN JOAQUIN RIVER BASIN

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT.								
04...	1030	21.0	2630	71	504	--	--	--
10...	1410	19.5	1940	72	377	--	--	--
NOV.								
02...	1200	14.0	1490	45	181	--	--	--
19...	0930	11.5	3020	154	1260	--	--	--
DEC.								
04...	1205	9.5	2540	70	480	--	--	--
JAN.								
12...	1100	10.5	3560	78	750	--	--	--
13...	1430	10.5	4240	50	572	--	--	--
16...	1300	10.5	3700	79	789	32	43	52
21...	0800	8.5	6590	160	2850	--	--	--
22...	1350	8.0	6140	132	2190	46	59	66
25...	1100	8.5	5350	56	809	--	--	--
FEB.								
02...	1050	9.5	4670	74	933	--	--	--
02...	1255	10.0	4660	76	956	--	--	--
14...	0700	10.0	11400	212	6530	--	--	--
14...	1500	11.0	11400	197	6060	42	52	62
15...	1030	11.0	11400	295	9080	27	34	39
16...	0900	10.0	12300	187	6210	--	--	--
20...	1200	11.5	11100	160	4800	35	49	57
21...	1030	12.0	10200	69	1900	--	--	--
MAR.								
02...	1210	13.0	7690	121	2510	55	64	73
03...	0900	13.0	7230	65	1270	--	--	--
12...	0800	12.5	8900	62	1490	--	--	--
APR.								
03...	1425	13.0	6910	50	933	--	--	--
JUNE								
26...	1030	24.5	1420	153	587	--	--	--
JULY								
16...	0830	23.5	1140	168	517	50	61	73
AUG.								
01...	0930	25.0	1060	156	446	49	61	74
SEP.								
05...	1530	23.0	1200	61	198	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.								
04...	--	--	94	100	--	--	--	--
10...	--	--	91	97	99	100	--	--
NOV.								
02...	--	--	97	100	--	--	--	--
19...	--	--	92	100	--	--	--	--
DEC.								
04...	--	--	52	61	100	--	--	--
JAN.								
12...	--	--	96	100	--	--	--	--
13...	--	--	83	91	100	--	--	--
16...	62	73	80	84	89	93	100	--
21...	--	--	87	93	100	--	--	--
22...	74	80	84	87	91	96	100	--
25...	--	--	92	100	--	--	--	--
FEB.								
02...	--	--	80	84	89	100	--	--
02...	--	--	78	84	91	100	--	--
14...	--	--	92	95	100	--	--	--
14...	70	76	82	88	94	99	100	--
15...	44	49	51	53	57	80	100	--
16...	--	--	96	100	--	--	--	--
20...	67	76	80	85	90	98	100	--
21...	--	--	95	100	--	--	--	--
MAR.								
02...	81	86	87	91	95	99	100	--
03...	--	--	96	100	--	--	--	--
12...	--	--	82	88	100	--	--	--
APR.								
03...	--	--	79	85	100	--	--	--
JUNE								
26...	--	--	98	99	100	--	--	--
JULY								
16...	86	95	98	99	100	--	--	--
AUG.								
01...	86	96	99	100	--	--	--	--
SEP.								
05...	--	--	100	--	--	--	--	--

## SAN JOAQUIN RIVER BASIN

315

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PENDE SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)	DATE	TIME	SUS- PENDE SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
OCT.				DEC.			
01...	1000	106	25	12...	0930	31	8
02...	0930	104	25	13...	1000	44	10
03...	0930	92	20	14...	1000	38	7
04...	1030	71	25	15...	1000	35	7
05...	0930	85	20	16...	1000	35	5
06...	1000	94	20	17...	1000	42	8
07...	0900	90	20	18...	1000	57	10
08...	1030	94	20	19...	0900	65	10
09...	1000	91	20	20...	1100	76	15
10...	0930	54	20	21...	1300	111	20
10...	1310	91	20	22...	1000	100	20
10...	1410	72	--	23...	1200	88	20
11...	1030	82	20	24...	1000	81	20
12...	0830	73	15	25...	0900	77	20
13...	0930	54	15	26...	1300	71	15
14...	0930	54	20	27...	0930	77	15
15...	0800	68	20	28...	1100	77	15
16...	0900	74	15	29...	1000	64	10
17...	0900	48	15	30...	1030	47	10
18...	1000	48	15	31...	1030	52	8
19...	0900	80	15	JAN.			
20...	0900	35	15	01...	0930	52	8
21...	0930	98	30	02...	1000	49	10
22...	1000	87	35	03...	0930	47	10
23...	1000	94	35	04...	1030	47	5
24...	0930	90	30	05...	1000	58	10
25...	0930	108	30	06...	1300	38	10
26...	0930	103	30	07...	1000	34	8
27...	0900	82	30	08...	1200	32	7
28...	0900	90	30	08...	1250	29	5
29...	0900	60	20	09...	1400	41	8
30...	1000	47	15	10...	0930	65	10
31...	0830	22	10	11...	1000	89	15
NOV.				12...	1100	78	25
01...	1000	36	15	13...	1430	50	25
02...	1000	46	15	14...	0800	129	35
02...	1200	45	--	15...	0800	105	25
02...	1230	48	15	16...	0800	88	25
03...	0900	52	10	16...	1300	79	--
04...	0930	53	10	16...	1320	81	30
05...	0900	62	15	17...	0900	106	30
06...	0930	52	10	18...	0930	321	85
07...	1100	48	10	19...	0930	189	55
08...	1000	51	10	19...	1140	175	50
09...	1000	51	10	20...	0800	242	75
10...	0930	48	10	21...	0800	160	60
11...	0800	114	50	22...	0930	176	65
12...	0930	80	25	22...	1350	132	--
13...	0900	190	100	22...	1440	158	55
14...	0930	212	90	23...	1000	132	55
15...	0900	120	45	24...	1030	111	40
16...	0930	156	55	25...	1100	56	35
17...	0930	189	60	26...	1100	94	25
18...	0800	223	60	27...	0800	75	25
19...	0930	154	50	28...	1000	86	25
20...	0930	133	40	29...	1000	81	20
21...	0900	117	35	30...	0900	70	20
22...	0930	107	30	31...	0900	80	20
23...	0900	106	20	FER.			
24...	0930	80	25	01...	1100	110	25
25...	0930	84	20	02...	1000	99	30
26...	0930	84	20	02...	1050	74	--
27...	0800	82	15	02...	1110	90	25
28...	0930	79	20	02...	1235	112	25
29...	0800	65	15	02...	1255	76	25
30...	0900	76	15	03...	1015	99	30
DEC.				04...	1000	116	20
01...	1100	64	15	05...	1000	123	25
02...	0800	60	15	06...	1030	117	25
03...	0900	57	15	07...	1100	295	80
04...	0930	63	15	08...	1100	308	85
04...	1205	70	10	09...	1000	163	40
04...	1230	61	9	10...	1000	134	30
05...	0930	57	10	11...	1000	128	40
06...	0900	48	10	12...	1030	347	80
07...	1030	54	8	13...	0900	439	95
08...	0900	45	10	14...	0700	212	80
09...	1000	35	8	14...	1500	197	70
10...	0900	37	10	15...	0700	270	70
11...	0900	33	20	15...	1030	295	75

## SAN JOAQUIN RIVER BASIN

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PENDE SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
FEB.			
15...	1040	313	80
16...	0900	187	70
17...	0930	211	65
18...	1000	182	50
19...	0930	163	35
20...	1200	160	40
21...	1030	69	45
22...	1200	145	35
23...	1100	111	30
24...	0900	98	30
25...	1000	97	30
26...	1000	135	30
27...	1000	163	45
27...	1205	136	50
27...	1220	473	--
28...	1000	158	60
MAR.			
01...	1100	206	60
02...	1000	153	60
02...	1150	132	55
02...	1210	121	55
02...	1240	124	50
03...	0900	65	40
04...	0900	116	40
05...	0900	94	25
06...	0900	71	25
07...	0800	80	30
08...	1600	97	30
09...	1000	116	35
10...	0930	97	35
11...	0800	103	40
12...	0800	62	30
13...	0900	125	35
14...	0930	77	25
15...	2000	88	25
16...	1000	71	25
17...	1000	78	25
18...	0800	90	25
19...	0900	97	20
20...	0900	165	20
20...	1100	139	30
21...	0900	135	20
22...	1100	123	25
23...	0930	92	25
24...	0930	85	30
25...	0830	86	20
26...	1000	106	20
27...	0830	126	20
28...	0930	88	25
29...	1030	69	20
30...	1600	47	20
31...	0800	77	20
APR.			
01...	0800	76	20
02...	0800	69	20
03...	0900	67	20
03...	1425	50	--
03...	1430	56	20
04...	0930	97	25
05...	0930	84	20
06...	1000	97	20
07...	0930	82	20
08...	0800	69	20
09...	0900	61	15
10...	0900	78	20
11...	0830	68	20
12...	1100	78	20
13...	1030	86	20
14...	0800	71	20
15...	0900	78	20
16...	0800	67	15
17...	0830	76	15
18...	1130	69	20
19...	0830	71	25
20...	0930	82	25
21...	0830	116	25
22...	0800	142	25
23...	0830	93	25
24...	0700	81	30
25...	0900	116	30

DATE	TIME	SUS- PENDE SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
APR.			
25...	1400	71	30
26...	1500	111	35
27...	0930	123	30
28...	0800	96	25
29...	0930	89	25
30...	1030	136	25
MAY			
01...	0900	136	25
02...	0930	77	25
03...	1000	82	20
04...	1100	129	25
05...	1000	158	35
06...	0830	149	25
07...	0930	124	25
08...	0800	130	30
09...	1000	166	35
10...	1000	156	45
11...	1800	112	35
12...	1000	127	40
13...	1000	134	45
14...	1100	140	35
15...	1030	153	45
16...	1000	151	45
17...	0930	158	35
18...	0930	168	35
19...	0900	120	20
20...	0900	109	20
21...	1000	97	20
22...	0930	98	20
23...	1000	104	20
24...	0930	94	30
25...	0930	102	25
26...	0930	89	25
27...	0900	90	20
28...	0900	101	15
29...	0900	89	20
30...	0930	89	20
31...	1030	97	20
JUNE			
01...	0800	118	20
02...	0830	113	20
03...	0830	97	15
04...	1000	101	10
05...	0800	90	15
06...	0930	92	20
07...	0800	100	20
08...	0800	86	20
09...	0930	88	20
10...	0900	84	20
11...	1000	83	20
12...	1205	67	15
12...	1430	68	20
13...	1000	92	20
14...	1000	95	30
15...	1000	112	35
16...	0900	112	35
17...	1130	120	40
18...	1000	124	45
19...	1000	141	45
20...	1000	157	45
21...	1000	180	45
22...	1000	159	45
23...	0900	141	45
24...	0930	123	35
25...	0830	128	40
26...	0930	141	45
26...	1030	153	40
27...	1230	154	50
28...	1000	198	45
29...	0930	169	50
30...	0830	159	45
JULY			
01...	0900	153	45
02...	1000	160	45
03...	0900	165	45
04...	1000	150	45
05...	1030	156	50
06...	1030	190	50
07...	0900	149	40
08...	1330	158	50

## SAN JOAQUIN RIVER BASIN

317

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PENDE SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)	DATE	TIME	SUS- PENDE SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
JULY				AUG.			
09...	0900	158	45	18...	0900	122	45
10...	0830	197	60	19...	0900	113	40
11...	0800	143	55	20...	0900	102	40
12...	1030	185	55	21...	0830	126	40
13...	0930	184	45	22...	0900	113	40
14...	0930	205	50	23...	1400	119	45
15...	0800	205	55	24...	1600	87	30
16...	0830	168	--	25...	1800	74	25
16...	0930	180	55	26...	1600	112	40
16...	1120	193	55	27...	0900	116	40
17...	0900	200	60	28...	0800	149	40
18...	0730	184	50	29...	1000	110	35
19...	0930	164	50	30...	0900	101	45
20...	1000	181	55	31...	1500	99	40
21...	0930	166	55	SEP.			
22...	1000	185	55	01...	1500	91	35
23...	0900	185	55	02...	0900	91	30
24...	1000	180	55	04...	0930	97	30
25...	1000	182	60	05...	1000	77	25
25...	1100	180	45	05...	1510	67	25
26...	0900	172	65	05...	1530	61	--
27...	1030	180	55	06...	1230	77	30
28...	0930	187	55	07...	0900	61	25
29...	1030	191	60	08...	0800	90	30
30...	1000	169	60	09...	0900	71	25
31...	1500	152	55	10...	0830	73	25
AUG.				11...	0930	67	25
01...	0930	156	--	13...	1030	75	25
01...	1000	179	55	14...	1000	80	30
01...	1025	183	65	15...	0900	76	25
02...	1400	146	55	16...	1000	82	25
03...	1130	186	55	17...	1000	84	25
04...	0900	161	50	18...	1000	84	25
05...	1000	169	50	19...	0900	69	25
06...	1000	137	50	20...	1000	89	25
07...	1100	112	40	21...	1000	89	25
08...	1330	120	35	22...	1000	80	20
09...	1000	118	35	23...	1000	83	25
10...	1600	116	45	24...	1000	74	20
11...	1730	123	45	25...	1000	71	20
12...	1700	155	50	26...	0800	78	20
13...	1600	140	45	27...	1000	57	20
14...	0900	157	55	28...	1000	69	20
15...	0930	142	45	29...	1000	63	20
16...	0930	142	50	30...	1000	70	20
17...	0800	130	45				

## WEIGHT-PERCENT-ORGANIC-MATTER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	WEIGHT- PERCENT- ORGANIC- MATTER	DATE	TIME	WEIGHT- PERCENT- ORGANIC- MATTER
JAN.			FEB.		
16...	1300	0.66	20...	1200	5.25
FEB.			27...	1220	1.02
14...	1500	2.12	MAR.		
15	1030	2.44	02...	1210	.79

11308600 CALAVERAS RIVER ABOVE NEW HOGAN LAKE, NEAR SAN ANDREAS, CALIF.

LOCATION.--Lat 38°11'48", long 120°43'18", in NW¼SW¼ sec.13, T.4 N., R.11 E., Calaveras County, on right bank  
600 ft below confluence of the North and South Forks of the Calaveras River, and 2.3 miles west of San Andreas.

DRAINAGE AREA.--307 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1973. Prior to October 1971, published as "above  
New Hogan Reservoir".

EXTREMES, 1972-73:

Water temperatures: Maximum, 30.5°C Aug. 1, 3, 5, 6, 11; minimum, 2.0°C Jan. 7.

Period of record:

Water temperatures: Maximum (1971-73), 31.0°C June 30, July 14, 15, 1972; minimum, 2.0°C Jan. 7, 1973.

REMARKS.--No flow Oct. 1-25, Aug. 16 to Sept. 21. Recorder malfunction Feb. 28 to Apr. 2.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	14.0	10.5	9.0	8.0	5.5	4.0	7.5	6.5	---	---
2	---	---	16.0	10.0	8.5	8.0	5.0	3.5	7.5	6.5	---	---
3	---	---	15.0	10.5	9.5	8.5	6.0	4.5	8.0	7.5	---	---
4	---	---	14.0	13.0	9.0	7.5	5.0	3.5	9.5	8.0	---	---
5	---	---	14.0	12.5	8.5	7.0	4.0	3.0	9.0	7.5	---	---
6	---	---	14.0	11.5	7.0	6.5	4.0	2.5	10.0	8.5	---	---
7	---	---	13.0	12.5	6.5	6.5	3.5	2.0	10.5	9.5	---	---
8	---	---	14.0	12.0	6.5	5.0	4.0	3.0	10.0	9.0	---	---
9	---	---	12.5	10.5	5.0	4.0	6.5	4.0	10.0	9.0	---	---
10	---	---	12.0	11.5	5.0	3.5	7.0	6.5	10.0	9.5	---	---
11	---	---	12.0	11.0	4.5	3.0	8.5	7.0	9.5	8.5	---	---
12	---	---	11.5	9.5	4.0	2.5	9.5	8.5	9.5	8.5	---	---
13	---	---	11.0	10.5	4.0	3.0	9.5	8.5	10.0	9.0	---	---
14	---	---	11.5	10.5	3.5	2.5	9.5	9.0	9.5	9.0	---	---
15	---	---	11.5	10.5	4.0	3.0	9.5	8.0	10.0	8.0	---	---
16	---	---	12.0	10.5	4.5	3.5	10.0	9.0	10.0	8.0	---	---
17	---	---	12.0	10.5	6.0	4.0	9.0	8.5	10.0	8.0	---	---
18	---	---	11.0	10.5	7.5	6.0	9.0	8.0	10.0	8.0	---	---
19	---	---	11.5	10.0	9.5	7.5	8.0	7.0	10.0	10.0	---	---
20	---	---	11.0	9.5	10.0	9.0	7.0	5.5	10.5	9.5	---	---
21	---	---	10.5	9.0	10.0	9.5	7.0	6.5	10.5	8.5	---	---
22	---	---	10.0	8.5	10.5	9.0	7.0	6.0	10.5	9.0	---	---
23	---	---	10.0	8.0	9.0	8.5	6.0	5.0	10.5	9.0	---	---
24	---	---	9.5	8.0	9.5	8.5	6.0	5.0	11.5	10.0	---	---
25	---	---	10.0	8.0	9.0	7.5	7.0	6.0	11.5	10.5	---	---
26	19.0	12.5	9.0	8.5	8.0	7.0	7.5	6.5	11.0	10.0	---	---
27	18.0	12.0	10.0	8.5	7.5	7.0	6.5	5.5	11.5	10.0	---	---
28	17.0	11.0	10.0	8.5	8.0	7.0	6.5	5.5	---	---	---	---
29	15.5	10.0	10.5	9.0	7.0	5.5	6.5	6.0	---	---	---	---
30	15.0	8.5	9.5	8.0	6.0	5.0	7.5	6.5	---	---	---	---
31	15.0	8.5	---	---	6.0	4.5	8.0	7.0	---	---	---	---
MONTH	---	---	16.0	8.0	10.5	2.5	10.0	2.0	11.5	6.5	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	19.0	16.0	22.0	20.5	25.0	22.5	30.5	24.0	---	---
2	---	---	19.5	16.0	22.5	19.5	25.0	22.0	29.5	23.5	---	---
3	13.0	10.0	19.5	16.5	23.0	20.0	25.5	22.0	30.5	23.5	---	---
4	14.0	10.5	17.5	15.5	23.5	20.5	25.5	22.5	30.0	23.5	---	---
5	14.5	12.0	17.5	14.5	24.5	21.0	26.0	23.0	30.5	23.5	---	---
6	15.0	12.5	18.5	15.0	25.0	21.5	25.5	22.5	30.5	25.0	---	---
7	15.0	12.5	19.0	16.0	25.0	22.0	25.0	22.0	30.0	23.5	---	---
8	14.5	12.0	19.5	16.0	25.5	22.0	25.5	22.5	30.0	23.0	---	---
9	14.5	13.0	20.0	16.5	25.5	22.5	26.5	23.0	29.5	23.0	---	---
10	16.0	13.5	20.5	17.0	24.5	22.5	26.5	23.5	30.0	22.5	---	---
11	16.5	14.5	21.5	18.0	24.0	21.5	26.5	23.5	30.5	23.5	---	---
12	16.0	14.5	21.5	18.5	24.0	21.5	26.5	23.5	29.5	23.5	---	---
13	15.5	13.0	22.5	19.0	23.0	21.0	26.5	23.5	29.5	23.0	---	---
14	13.0	11.5	22.5	20.0	22.0	19.5	26.5	23.5	30.0	23.5	---	---
15	14.5	12.5	23.0	20.5	22.0	19.0	26.0	23.0	29.5	24.0	---	---
16	14.0	12.5	23.5	20.5	21.5	19.0	26.0	23.0	---	---	---	---
17	14.5	13.0	24.0	21.0	22.0	18.5	25.5	22.5	---	---	---	---
18	14.0	11.5	25.0	22.0	22.0	19.0	25.5	23.0	---	---	---	---
19	14.5	12.5	24.5	22.0	23.0	19.5	25.0	22.0	---	---	---	---
20	14.5	12.0	23.0	21.0	24.0	21.0	25.0	22.0	---	---	---	---
21	15.0	12.5	22.5	20.0	25.0	22.0	24.5	21.5	---	---	---	---
22	16.0	13.5	22.5	20.0	24.0	22.5	25.5	22.0	---	---	20.5	15.5
23	17.0	14.5	22.5	19.5	23.0	21.5	25.5	22.0	---	---	23.0	16.5
24	18.0	15.5	21.0	20.0	24.0	21.5	26.0	22.0	---	---	21.0	15.0
25	19.0	16.0	21.0	19.5	24.5	22.0	27.0	22.5	---	---	24.0	13.0
26	19.5	17.0	20.5	18.0	26.0	22.5	28.0	23.0	---	---	26.5	14.0
27	20.0	17.5	21.0	18.0	26.0	23.5	28.5	23.5	---	---	28.0	14.5
28	19.5	17.5	22.5	19.0	27.0	24.0	29.0	24.0	---	---	27.5	15.0
29	19.0	17.0	23.5	20.5	26.5	24.0	29.0	23.5	---	---	27.5	15.0
30	18.5	16.0	23.5	21.5	25.5	23.0	29.5	23.5	---	---	26.0	15.5
31	---	---	22.5	21.5	---	---	30.0	23.5	---	---	---	---
MONTH	20.0	10.0	25.0	14.5	27.0	18.5	30.0	21.5	---	---	---	---



## SAN JOAQUIN RIVER BASIN

319

11308900 CALAVERAS RIVER BELOW NEW HOGAN DAM, NEAR VALLEY SPRINGS, CALIF.

LOCATION.--Lat 38°08'53", long 120°49'26", in NW¼NE¼ sec.1, T.3 N., R.10 E., Calaveras County, temperature recorder at gaging station on right bank at county road bridge, 0.5 mile upstream from Cosgrove Creek, 0.8 mile downstream from New Hogan Dam, and 3.0 miles south of Valley Springs.

DRAINAGE AREA.--363 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1964 to August 1966. Published as "below Hogan Dam" in 1964.  
Water temperatures: October 1970 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 15.5°C Mar. 25; minimum, 5.5°C Jan. 1.

Period of record:

Water temperatures: Maximum, 17.0°C Oct. 12, 1971; minimum (1971-73), 5.5°C Dec. 17, 1971, Jan. 1, 1973.

REMARKS.--Recorder malfunction Oct. 1, 2.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	11.5	10.0	11.0	10.5	7.0	5.5	9.0	8.5	10.5	10.0
2	---	---	12.0	10.0	11.5	10.5	7.0	6.0	8.5	8.5	12.5	9.5
3	12.0	10.5	12.0	10.0	11.5	10.5	9.5	6.0	8.5	8.5	11.5	10.0
4	12.0	10.5	11.5	10.5	11.5	9.5	10.0	7.5	8.5	8.5	10.5	10.0
5	12.0	10.5	12.0	10.0	11.0	9.0	10.0	7.5	8.5	8.5	10.5	10.5
6	12.0	10.5	12.0	10.0	10.0	9.0	10.0	7.5	9.0	8.5	10.5	10.5
7	12.0	10.5	11.0	10.5	10.0	9.5	9.5	7.5	9.0	9.0	10.5	10.5
8	12.0	10.5	12.0	10.0	10.0	8.0	9.5	8.5	9.0	9.0	10.5	10.0
9	11.0	10.5	11.5	10.0	9.5	8.0	10.0	9.0	9.0	9.0	12.5	9.0
10	12.0	10.5	11.0	10.5	10.0	8.0	10.5	9.0	9.0	9.0	12.5	10.0
11	12.5	10.5	11.0	10.0	10.0	7.5	10.5	9.5	9.0	9.0	10.5	10.0
12	12.0	10.5	10.5	9.5	9.5	8.0	11.5	10.0	9.0	9.0	11.0	10.5
13	12.5	10.5	9.5	9.0	9.5	8.0	11.5	9.0	9.5	9.0	10.5	10.5
14	11.5	10.5	10.5	9.5	9.0	8.0	11.0	9.5	9.5	9.5	10.5	10.5
15	11.5	10.5	11.0	10.0	9.0	8.5	10.5	9.0	9.5	9.5	11.0	10.5
16	11.5	10.5	12.0	10.5	9.5	8.5	12.0	10.0	9.5	9.5	11.0	10.5
17	13.0	10.5	11.0	10.0	10.0	9.0	11.0	9.5	10.0	9.5	12.0	9.5
18	13.0	10.0	10.5	9.5	11.0	9.5	10.5	9.5	10.0	9.5	13.0	9.0
19	12.0	10.0	10.5	9.5	11.0	9.5	10.0	8.0	10.0	9.5	11.0	9.5
20	12.5	10.5	10.5	8.0	10.5	9.5	8.5	6.0	10.0	9.5	11.0	9.0
21	12.0	10.0	11.5	10.0	10.5	10.0	9.0	7.5	10.0	9.5	10.5	9.0
22	12.5	10.0	10.0	10.0	11.0	10.5	9.5	7.0	10.0	9.5	12.5	9.0
23	12.5	10.0	12.0	10.5	10.5	9.5	9.0	9.0	10.0	10.0	13.5	9.5
24	12.5	10.0	12.0	10.5	10.5	9.5	9.0	9.0	10.5	10.0	14.5	11.0
25	12.5	10.0	11.5	11.0	10.5	9.0	9.0	9.0	10.5	9.5	15.5	12.0
26	12.0	10.0	11.5	11.0	10.0	8.5	9.0	9.0	10.5	9.0	14.5	13.0
27	12.0	10.0	12.0	11.0	9.0	8.0	9.0	9.0	12.5	10.5	13.5	12.5
28	12.0	10.0	11.5	11.0	9.5	8.5	9.0	8.5	11.5	10.0	14.0	11.5
29	11.5	9.5	12.5	10.5	8.5	6.5	9.0	8.5	---	---	13.0	10.0
30	12.0	9.5	11.5	10.5	7.0	6.0	9.0	8.5	---	---	11.0	9.5
31	12.0	9.5	---	---	7.0	6.0	9.0	8.5	---	---	12.5	9.5
MONTH	13.0	9.5	12.5	8.0	11.5	6.0	12.0	5.5	12.5	8.5	15.5	9.0
DAY	-APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	9.0	12.0	11.0	12.0	11.0	12.5	11.5	12.5	11.5	12.5	11.5
2	13.0	9.5	12.0	11.0	12.0	11.0	12.5	11.0	12.5	11.5	12.5	11.5
3	13.0	9.0	12.0	11.0	12.0	11.0	12.0	11.0	12.5	11.5	12.0	11.5
4	13.5	9.5	12.0	11.0	12.0	11.0	12.0	11.0	12.5	11.5	12.5	11.5
5	13.5	9.5	12.5	11.0	12.0	11.0	12.5	11.5	12.5	12.0	12.5	11.5
6	13.5	9.5	12.5	11.0	12.0	11.0	13.0	11.5	12.5	11.5	12.5	11.5
7	13.0	9.5	12.5	11.0	12.0	11.0	13.0	11.5	12.5	11.5	12.5	11.5
8	13.5	9.5	12.5	11.0	12.0	11.0	12.5	11.5	12.5	11.5	12.5	11.0
9	12.0	10.0	12.0	11.0	12.0	11.0	12.5	11.5	12.5	11.5	12.5	11.5
10	13.5	10.0	12.0	11.0	12.0	11.0	12.5	11.5	12.5	11.5	12.5	11.5
11	13.5	10.0	12.0	11.0	12.0	11.0	12.5	11.5	12.5	11.5	12.5	11.5
12	13.0	10.0	12.0	11.0	12.0	11.0	12.5	12.0	12.5	11.5	12.5	11.5
13	11.5	10.0	12.0	11.0	11.5	11.0	12.5	12.0	12.5	11.5	12.5	11.0
14	12.0	10.0	12.0	11.0	12.0	11.0	12.5	12.0	12.5	11.5	12.5	11.0
15	13.0	10.0	12.0	11.0	12.0	11.0	12.5	12.0	13.0	11.5	12.5	11.0
16	13.0	10.0	12.0	11.0	12.0	11.0	12.5	12.0	12.5	11.5	12.5	11.0
17	13.0	10.0	12.0	11.0	12.5	11.0	12.5	12.0	12.5	11.5	12.5	11.0
18	13.5	9.5	12.0	11.0	12.5	11.0	12.5	12.0	12.5	11.5	12.5	11.0
19	13.5	10.0	12.0	11.0	12.5	11.0	12.5	12.0	12.5	11.5	12.5	11.5
20	13.5	10.0	12.0	11.0	12.0	11.0	12.5	11.5	12.5	11.5	12.0	11.0
21	12.0	10.5	12.0	11.0	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.0
22	12.0	10.5	12.0	11.0	12.0	11.5	12.5	12.0	12.5	11.5	12.0	11.0
23	12.5	10.5	12.0	11.0	12.0	11.5	12.5	11.5	12.5	11.5	12.5	11.0
24	12.5	10.5	11.5	11.0	12.5	11.5	12.5	11.5	12.5	11.5	12.0	11.0
25	12.5	10.5	12.0	11.0	12.5	11.5	12.5	12.0	12.5	11.5	12.5	11.0
26	12.5	11.0	12.0	11.0	12.5	11.5	12.5	12.0	12.5	11.5	13.0	11.0
27	12.5	11.0	12.0	11.0	12.5	11.5	13.0	12.0	12.5	11.5	13.0	11.0
28	12.5	10.5	12.0	11.0	12.5	11.5	12.5	12.0	12.5	11.5	13.0	11.0
29	12.5	11.0	12.0	11.0	12.5	11.5	13.0	11.5	12.0	11.5	13.0	11.0
30	12.5	11.0	12.0	11.0	12.5	11.5	12.5	11.5	12.5	11.5	13.0	11.0
31	---	---	11.5	11.0	---	---	12.5	11.5	12.5	11.5	---	---
MONTH	13.5	9.0	12.5	11.0	12.5	11.0	13.0	11.0	13.0	11.5	13.0	11.0

## SAN JOAQUIN RIVER BASIN

## 11319500 MOKELUMNE RIVER NEAR MOKELUMNE HILL, CALIF.

LOCATION.--Lat 38°18'46", long 120°43'09", in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.1, T.5 N., R.11 E., Calaveras County, temperature recorder at gaging station on downstream side of bridge, 1.2 miles northwest of Mokelumne Hill, and 8 miles downstream from confluence of North and South Forks of Mokelumne River.

DRAINAGE AREA.--544 sq mi.

PERIOD OF RECORD.--Water temperatures: February 1961 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 18.0°C Aug. 10; minimum, 2.5°C Dec. 14, Jan. 6, 7.

Period of record:

Water temperatures: Maximum, 24.5°C Aug. 5, 1967; minimum (1961-65, 1966-73), 1.0°C Jan. 31, Feb. 1, 1968.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	15.5	13.0	11.0	8.5	7.0	4.5	3.0	5.0	5.0	8.5	8.0
2	17.5	16.0	13.0	12.0	8.5	6.5	4.5	3.5	5.5	5.0	8.5	8.0
3	17.0	16.5	13.0	10.5	8.5	8.0	5.0	4.5	5.5	5.0	8.0	7.5
4	17.5	16.5	13.0	13.0	8.5	8.0	4.5	3.5	6.0	5.5	8.0	7.5
5	17.0	15.5	13.0	12.5	8.5	6.5	4.0	3.0	6.0	6.0	7.5	7.0
6	17.0	15.0	13.0	12.0	7.5	6.5	3.5	2.5	6.5	6.0	8.0	7.5
7	17.5	15.5	13.0	13.0	7.5	6.5	3.5	2.5	7.5	6.5	7.5	7.0
8	17.5	15.0	13.0	12.0	6.5	5.5	3.5	3.0	7.5	7.0	8.0	7.0
9	16.0	16.0	12.5	12.0	5.5	4.0	3.5	3.5	7.5	6.5	8.0	7.5
10	16.5	15.5	12.0	12.0	5.5	4.5	4.5	4.0	8.0	6.5	8.5	7.5
11	17.5	15.5	12.0	11.0	5.5	3.5	6.0	4.5	7.5	7.0	9.5	8.0
12	16.5	14.5	11.5	10.5	6.0	4.5	7.0	6.0	7.5	6.5	8.5	7.5
13	15.5	14.0	11.5	11.0	5.5	4.5	6.0	5.5	7.0	6.5	8.5	7.5
14	14.5	14.0	12.0	11.0	4.5	2.5	5.5	5.0	7.0	6.5	7.5	6.5
15	14.0	13.5	12.0	11.0	4.5	4.0	5.5	5.0	7.0	6.0	7.5	6.5
16	13.5	13.0	11.0	10.5	5.0	4.0	7.5	5.5	7.0	6.5	7.5	7.0
17	13.5	12.5	11.0	10.0	5.5	4.5	6.5	6.5	7.0	6.5	8.5	7.5
18	13.5	12.5	10.5	9.5	6.0	4.5	6.5	6.0	7.0	6.5	8.5	7.5
19	13.0	12.0	10.5	9.5	5.5	5.5	6.0	5.0	7.0	6.5	8.0	7.5
20	13.0	12.5	10.5	10.0	6.5	5.5	5.0	4.5	7.0	6.5	8.0	7.0
21	13.5	12.5	10.5	9.0	6.0	5.5	4.5	4.5	7.0	6.5	7.0	6.5
22	13.5	12.5	10.0	9.0	7.0	5.5	4.5	4.0	7.0	6.5	7.0	6.5
23	13.5	12.5	9.5	7.5	6.5	5.5	4.5	3.5	7.0	6.5	7.5	6.5
24	13.5	12.5	9.5	8.0	6.5	5.5	4.0	3.5	7.5	7.0	8.5	7.5
25	14.0	12.5	9.5	8.5	6.5	5.5	4.5	4.0	8.0	7.0	9.0	8.0
26	14.0	12.5	10.0	9.0	6.5	5.0	4.5	4.0	8.0	7.5	9.5	9.0
27	13.5	12.0	10.0	9.5	6.5	5.5	4.5	3.5	8.5	8.0	9.0	8.5
28	13.5	12.0	9.5	8.5	6.0	5.5	4.0	3.5	8.5	8.0	8.5	8.0
29	13.0	12.0	9.5	8.5	5.5	4.5	4.0	3.5	---	---	8.0	7.5
30	12.5	11.0	8.5	8.0	4.5	3.5	4.5	4.0	---	---	7.5	7.5
31	12.5	11.0	---	---	4.0	3.5	5.0	4.5	---	---	8.5	7.5
MONTH	17.5	11.0	13.0	7.5	8.5	2.5	7.5	2.5	8.5	5.0	9.5	6.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.5	11.0	9.5	13.5	13.5	16.0	13.5	16.5	13.5	15.5	13.0
2	9.0	8.0	11.0	10.0	14.5	13.5	15.0	13.5	14.5	12.5	15.0	12.5
3	9.0	8.0	11.5	10.5	14.5	13.5	14.5	13.5	15.5	13.5	14.5	13.0
4	9.5	8.0	11.0	9.5	14.5	13.5	14.5	13.5	14.5	13.5	15.0	13.0
5	10.0	9.0	10.0	9.0	15.5	14.0	15.0	14.0	15.0	13.5	15.0	13.5
6	10.5	9.5	10.5	9.0	15.5	14.5	15.0	14.0	15.0	13.5	15.5	13.5
7	11.0	10.0	11.5	10.0	15.5	14.5	15.5	14.0	15.5	13.5	15.0	13.0
8	11.0	10.0	12.0	10.5	15.5	15.0	15.0	13.5	14.5	13.5	14.5	13.0
9	11.0	10.5	12.5	11.0	16.5	15.5	15.5	14.0	14.5	12.5	14.0	12.5
10	11.5	10.5	13.0	11.5	16.0	15.0	15.5	14.0	18.0	13.0	14.5	12.5
11	11.0	10.5	13.0	12.0	16.5	15.0	15.5	14.5	15.0	13.5	14.5	13.0
12	11.0	10.5	13.5	12.0	16.5	15.0	15.5	14.0	17.5	13.5	15.5	13.0
13	11.0	9.0	13.5	12.0	15.5	13.5	15.0	14.0	15.0	13.0	13.5	12.5
14	9.0	8.0	13.0	12.0	14.5	13.5	15.0	13.5	15.0	13.5	14.0	12.0
15	9.0	8.0	14.0	12.5	14.5	12.5	15.0	14.0	15.0	13.0	14.5	12.0
16	9.0	8.5	15.0	14.0	14.5	12.5	15.5	14.0	15.5	12.5	13.5	12.0
17	9.0	8.5	15.5	14.5	14.0	12.5	15.5	14.5	14.5	11.5	13.5	12.0
18	9.0	8.0	17.0	15.0	14.0	12.5	15.5	14.0	15.0	12.0	15.0	12.0
19	9.5	8.5	17.0	15.0	15.0	12.5	16.5	13.0	14.5	12.5	14.5	12.5
20	9.5	8.0	16.5	13.5	15.0	13.0	14.5	13.5	14.5	12.0	14.0	12.5
21	9.5	8.5	14.0	13.0	15.0	14.0	15.5	12.5	14.0	12.5	14.5	12.5
22	10.0	9.0	14.5	13.5	14.5	13.5	15.5	14.0	15.5	13.0	13.0	12.0
23	11.0	10.0	14.5	13.5	15.0	13.5	15.5	12.5	15.0	13.0	14.0	12.5
24	11.5	10.5	13.5	12.5	14.5	13.5	15.5	12.5	14.5	13.0	13.5	12.5
25	11.5	11.0	13.0	11.5	15.5	13.5	15.5	13.5	14.5	13.0	14.0	12.0
26	12.0	11.0	12.5	11.0	16.5	14.0	14.5	13.5	14.0	13.0	14.5	12.5
27	12.5	11.5	13.5	12.0	16.0	14.5	15.5	13.5	15.0	13.0	15.0	13.0
28	12.0	11.0	14.5	13.0	16.5	14.5	16.0	13.5	15.0	13.0	16.0	13.5
29	11.5	10.5	15.0	14.0	16.0	14.5	14.5	13.0	14.5	13.0	16.0	13.5
30	11.0	10.0	14.5	13.5	17.5	14.5	15.0	13.5	14.5	13.5	16.0	14.0
31	---	---	14.0	13.5	---	---	15.0	13.5	15.0	12.5	---	---
MONTH	12.5	8.0	17.0	9.0	17.5	12.5	16.5	12.5	18.0	11.5	16.0	12.0

## SAN JOAQUIN RIVER BASIN

321

## 11323500 MOKELUMNE RIVER BELOW CAMANCHE DAM, CALIF.

LOCATION.--Lat 38°13'14", long 121°02'19", in NW¼NW¼ sec.7, T.4 N., R.9 E., San Joaquin County, temperature recorder at gaging station on left bank, 0.7 mile downstream from Murphy Creek, 1.0 mile downstream from Camanche Dam, and 3.4 miles northeast of Clements.

DRAINAGE AREA.--627 sq mi.

PERIOD OF RECORD.--Chemical analyses: January to December 1906, water years 1965-66 (partial-record station). Published as "at Clements" in 1906.

Water temperatures: October 1961 to September 1968, October 1969 to September 1973.

Sediment records: Water years 1966-70 (partial-record station). Prior to 1962 water year published as "near Clements".

EXTREMES.--1972-73:

Water temperatures: Maximum, 17.0°C Aug. 10, 12-14, 22; minimum, 8.5°C on many days during January and February.

Period of record:

Water temperatures (1961-63, 1964-68, 1970-73): Maximum (1961-63, 1964-65, 1970-73), 22.0°C Aug. 9, 10, 1971; minimum (1961-63, 1965-68, 1970-73), 7.0°C Jan. 22-26, 1962.

REMARKS.--Temperature record furnished by East Bay Municipal Utility District and reviewed by Geological Survey.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	13.0	13.5	13.0	12.0	11.5	10.0	9.5	9.5	8.5	10.0	9.0
2	14.0	13.0	14.0	12.0	12.0	11.5	10.0	9.5	9.5	9.0	10.0	9.0
3	14.0	13.0	13.5	13.0	12.0	11.5	10.0	9.5	9.0	9.0	9.5	9.0
4	14.0	13.0	14.0	13.5	12.0	11.0	10.0	9.5	9.5	9.0	10.0	9.0
5	14.0	13.0	14.0	13.0	11.5	10.5	10.0	9.0	9.5	9.0	9.5	9.0
6	14.0	13.0	13.5	12.0	11.0	10.5	9.5	9.0	10.0	9.0	10.0	9.0
7	14.0	13.0	14.0	13.0	11.0	10.5	9.5	9.0	10.0	9.5	9.5	9.0
8	13.5	13.0	14.0	12.0	10.5	10.0	9.5	9.0	10.0	9.5	9.5	9.0
9	13.5	13.0	13.5	12.0	10.5	9.5	10.0	9.5	10.0	9.0	10.0	9.0
10	14.0	13.0	13.5	13.0	10.5	9.5	10.0	9.5	10.0	9.5	9.5	9.0
11	14.5	13.0	13.5	13.0	10.5	9.0	9.5	9.5	10.0	9.5	9.5	9.0
12	14.5	13.0	13.5	12.0	10.5	9.5	10.0	9.5	10.0	9.0	10.0	9.0
13	14.0	13.0	13.5	13.0	10.0	9.5	9.0	8.5	10.0	9.5	9.5	9.0
14	13.5	13.0	14.0	13.0	10.0	9.5	9.0	8.5	9.5	9.0	10.5	9.0
15	14.0	13.0	14.0	13.0	10.0	9.5	9.0	8.5	9.0	8.5	10.5	9.5
16	14.0	13.0	14.0	13.5	10.0	9.5	10.0	8.5	9.0	8.5	10.5	9.5
17	14.0	13.0	14.0	13.0	10.5	10.0	10.0	9.0	9.0	8.5	10.0	9.5
18	14.5	13.0	14.0	13.0	11.0	10.0	9.5	9.0	9.0	8.5	10.0	9.5
19	14.0	13.0	14.0	13.0	11.0	10.5	9.5	9.0	9.0	8.5	10.5	9.5
20	14.0	13.0	13.5	12.0	10.5	10.0	9.0	8.5	9.0	8.5	10.5	9.5
21	14.0	13.0	13.5	12.0	10.5	10.0	9.0	8.5	9.0	8.5	11.0	10.0
22	14.0	12.0	13.5	12.0	10.5	9.5	9.0	8.5	9.0	8.5	10.5	10.0
23	14.5	13.0	13.5	12.0	10.0	9.5	9.0	8.5	9.0	8.5	10.5	10.0
24	14.0	12.0	13.0	11.5	10.0	9.5	9.0	8.5	11.0	8.5	10.5	10.0
25	14.0	13.0	13.0	12.0	10.5	9.5	9.0	8.5	10.5	9.5	10.5	10.0
26	14.0	12.0	13.0	12.0	10.0	10.0	9.0	8.5	10.0	9.5	10.5	10.0
27	14.0	12.0	13.0	12.0	10.5	10.0	9.0	8.5	10.0	9.0	10.5	10.0
28	14.0	12.0	13.0	12.0	10.0	9.5	9.0	8.5	10.5	9.5	10.5	10.0
29	13.5	11.5	13.0	12.0	10.0	9.5	9.0	9.0	9.0	---	10.5	10.0
30	13.5	11.5	13.0	12.0	10.0	9.5	9.0	8.5	---	---	10.5	10.0
31	13.0	11.5	---	---	10.0	9.5	9.5	9.0	---	---	10.5	10.0
MONTH	14.5	11.5	14.0	11.5	12.0	9.0	10.0	8.5	11.0	8.5	11.0	9.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.0	11.5	10.5	13.5	13.0	15.5	15.0	16.5	16.0	13.5	13.5
2	11.0	10.0	11.5	10.5	13.5	13.0	15.5	15.0	16.5	16.0	14.0	13.5
3	11.0	10.0	11.5	10.5	13.5	13.0	15.5	15.0	16.5	16.0	13.5	13.0
4	11.0	10.0	11.5	10.5	13.5	13.0	16.0	15.0	16.5	16.0	13.5	13.0
5	11.0	10.0	11.5	10.5	13.5	13.0	15.5	15.0	16.5	16.0	13.5	13.0
6	11.0	10.0	11.5	11.0	14.0	13.0	16.0	15.0	16.5	15.5	13.5	13.0
7	11.0	10.0	11.5	11.0	14.0	13.5	16.0	15.0	16.5	15.5	13.5	13.0
8	11.0	10.0	11.5	11.0	14.0	13.5	16.0	15.0	16.5	15.5	13.5	13.0
9	11.0	10.0	12.0	11.0	14.0	13.5	16.0	15.0	16.5	15.0	13.5	13.0
10	11.0	10.5	11.5	11.0	13.5	13.0	16.0	15.5	17.0	16.0	13.5	13.0
11	11.0	10.0	11.5	11.0	13.5	13.0	16.0	15.5	16.5	16.0	13.5	13.0
12	11.0	10.5	11.5	11.0	13.5	13.0	16.0	15.5	17.0	16.0	13.5	13.0
13	11.0	10.5	11.5	11.0	13.5	13.0	16.0	15.5	17.0	16.5	13.5	13.0
14	11.0	10.5	11.5	11.0	13.5	13.0	16.0	15.5	17.0	16.5	13.5	13.0
15	11.0	10.5	13.5	11.0	14.0	13.0	16.0	15.5	16.5	16.0	13.5	13.0
16	11.0	10.5	14.0	13.5	14.0	13.0	16.0	15.5	16.5	16.0	13.5	13.0
17	11.0	10.5	14.5	13.5	14.0	13.0	16.0	15.5	16.5	16.0	13.5	13.0
18	11.0	10.5	15.0	13.5	14.5	13.5	16.0	15.5	16.5	16.0	13.5	13.0
19	11.5	10.5	14.5	13.5	15.0	14.0	16.0	15.0	16.5	16.0	13.5	13.0
20	11.5	10.5	14.5	13.5	15.0	14.5	16.0	15.0	16.5	16.0	13.5	13.0
21	11.5	10.5	14.5	13.5	15.5	14.5	16.0	15.0	16.5	16.0	13.5	13.0
22	11.5	10.5	14.5	13.5	15.0	14.5	16.0	15.5	17.0	16.5	13.5	13.0
23	11.5	10.5	14.5	13.5	15.0	14.5	16.0	15.5	16.5	16.0	13.5	13.0
24	11.5	10.5	14.5	13.5	15.5	14.5	16.0	15.5	16.5	16.0	13.5	13.0
25	11.5	10.5	14.5	13.0	15.5	14.5	16.0	15.5	16.5	16.0	13.5	13.0
26	11.5	10.5	14.0	13.0	15.5	14.5	16.0	15.5	16.5	16.0	13.5	13.0
27	11.5	11.0	14.0	12.0	16.0	14.5	16.0	15.5	16.5	16.0	13.5	13.0
28	11.5	11.0	14.0	13.0	15.5	15.0	16.5	15.5	16.5	16.0	13.5	13.0
29	11.5	11.0	14.5	13.5	15.5	15.0	16.0	14.0	16.5	16.0	13.5	13.0
30	11.5	10.5	14.5	13.5	15.5	15.0	16.5	15.5	16.5	16.0	13.5	13.0
31	---	---	14.0	13.0	---	---	16.5	16.0	16.5	13.5	---	---
MONTH	11.5	10.0	15.0	10.5	16.0	13.0	16.5	14.0	17.0	13.5	14.0	13.0

## SAN JOAQUIN RIVER BASIN

11325500 MOKELUMNE RIVER AT WOODBRIDGE, CALIF.

LOCATION.--Lat 38°09'31", long 121°18'09", in NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.34, T.4 N., R.6 E., San Joaquin County, at gaging station on right bank at Woodbridge, 0.4 mile downstream from county highway bridge, and 0.5 mile downstream from dam and canal intake of Woodbridge Irrigation District.

DRAINAGE AREA.--661 sq mi.

PERIOD OF RECORD.--Chemical analyses: March 1951 to September 1963, water years 1964-66, 1968-73 (partial-record station).

Water temperatures: March 1951 to September 1958, November 1960 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Maximum, 23.0°C Aug. 1; minimum, 3.5°C Dec. 12, 13.

Period of record:

Water temperatures: Maximum (1951-54, 1956-58, 1960-73), 28.5°C July 9, 1951; minimum (1951-55, 1956-58, 1961-73), 1.5°C Jan. 29, 30, 1954.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
JAN. 31...	1300	1030	3.9	2.2	2.9	20	0	16	3.6	--
SEP. 05...	0230	154	5.0	2.8	3.0	27	0	22	2.9	36

DATE	AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
JAN. 31...	--	--	--	19	2	.3	51	7.1	9.0	18	11.5
SEP. 05...	.05	15.0	15.0	24	2	.3	48	7.2	17.0	1	9.8

11325500 MOKELUMNE RIVER AT WOODBRIDGE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	17.0	11.5	11.0	8.5	8.0	8.0	8.0	8.5	8.5	9.5	9.5
2	17.5	17.0	12.5	11.5	8.0	8.0	8.0	8.0	8.5	8.5	10.0	9.5
3	18.0	17.0	12.5	12.0	8.0	7.5	8.0	8.0	8.5	8.5	10.0	10.0
4	17.5	17.5	13.5	12.5	7.5	7.5	8.0	8.0	8.5	8.5	10.0	10.0
5	17.5	17.0	13.0	13.0	7.5	6.5	8.0	8.0	8.5	8.5	10.0	10.0
6	17.0	16.5	13.0	12.0	6.5	5.5	8.0	8.0	8.5	8.5	10.0	10.0
7	17.5	16.5	13.0	12.5	5.5	5.0	8.0	7.5	8.5	8.5	10.0	10.0
8	17.5	17.0	12.5	12.0	5.0	5.0	7.5	7.5	9.0	8.5	10.0	10.0
9	17.0	17.0	12.0	12.0	5.0	4.5	8.5	7.5	9.0	9.0	10.0	10.0
10	17.0	16.5	12.0	12.0	4.5	4.5	8.5	8.5	9.0	9.0	10.0	10.0
11	16.5	16.5	12.0	12.0	4.5	4.0	9.0	8.5	9.0	9.0	10.0	10.0
12	16.5	16.5	12.0	11.0	4.0	3.5	9.0	9.0	9.0	9.0	10.0	10.0
13	17.0	16.5	11.0	11.0	4.0	3.5	9.0	9.0	9.0	9.0	10.0	10.0
14	16.5	16.5	11.0	11.0	4.0	4.0	9.0	8.5	9.0	9.0	10.0	9.5
15	16.5	16.5	11.0	11.0	4.0	4.0	9.0	8.5	9.0	9.0	9.5	9.5
16	16.5	16.0	11.0	11.0	4.0	4.0	9.0	9.0	9.0	9.0	10.0	9.5
17	16.5	16.0	11.5	11.0	6.0	4.0	9.5	9.0	9.0	9.0	10.0	10.0
18	16.5	16.0	11.5	11.5	7.5	6.0	9.0	9.0	9.0	9.0	10.5	10.0
19	16.0	16.0	11.5	11.5	9.5	7.5	9.0	9.0	9.0	9.0	11.0	10.5
20	16.0	16.0	11.5	10.5	10.5	9.5	9.0	9.0	9.0	9.0	11.0	10.0
21	16.0	16.0	10.5	10.0	10.5	10.0	9.0	9.0	9.0	9.0	10.0	10.0
22	16.0	16.0	10.0	10.0	10.5	10.0	9.0	9.0	9.0	9.0	10.0	10.0
23	16.0	15.5	10.0	9.0	10.0	10.0	9.0	9.0	9.0	9.0	10.5	10.0
24	15.5	15.0	9.0	9.0	10.0	10.0	9.0	9.0	9.0	8.5	11.0	10.5
25	15.5	15.0	9.0	8.5	10.0	9.5	9.0	8.5	9.0	8.5	11.0	10.5
26	15.0	14.5	8.5	8.0	9.5	9.0	8.5	8.5	9.5	9.0	11.0	10.5
27	14.5	14.5	9.0	8.0	9.0	9.0	8.5	8.5	9.5	9.5	11.0	11.0
28	14.5	14.0	9.0	9.0	9.0	9.0	8.5	8.5	9.5	9.5	11.0	11.0
29	14.0	12.5	9.0	8.5	9.0	8.0	8.5	8.5	---	---	11.0	11.0
30	12.5	11.5	8.5	8.5	8.0	8.0	8.5	8.5	---	---	11.0	11.0
31	11.5	11.0	---	---	8.0	8.0	8.5	8.5	---	---	11.0	10.0
MONTH	18.0	11.0	13.5	8.0	10.5	3.5	9.5	7.5	9.5	8.5	11.0	9.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.0	15.5	14.5	17.0	16.5	19.5	18.5	23.0	17.0	18.0	16.5
2	11.0	11.0	15.5	14.5	17.0	16.5	19.0	18.0	18.0	16.0	18.5	16.5
3	11.0	11.0	16.0	15.0	17.5	16.5	20.0	19.0	18.5	16.5	18.5	17.0
4	11.0	11.0	15.5	15.0	17.5	17.0	20.0	19.0	18.5	17.0	18.5	17.0
5	11.5	11.0	15.0	14.0	18.0	17.0	20.5	19.5	18.5	17.0	19.0	17.0
6	11.5	11.5	15.5	14.5	18.5	17.5	20.0	19.0	18.5	17.0	18.5	16.5
7	12.0	11.5	15.5	14.5	19.0	18.0	19.0	18.5	18.0	16.5	19.0	17.0
8	12.0	12.0	15.5	14.0	19.5	18.5	19.0	18.0	18.0	16.0	19.5	17.5
9	12.0	12.0	15.5	14.5	19.5	19.0	19.5	18.5	17.5	15.5	19.5	17.5
10	12.0	12.0	16.0	15.0	19.5	18.5	21.0	19.0	17.5	15.5	19.5	18.0
11	12.0	12.0	16.5	15.0	19.0	18.0	21.0	19.0	18.5	16.5	19.0	17.5
12	12.5	12.0	17.0	15.5	18.5	17.5	21.0	19.0	18.0	16.5	18.5	17.0
13	12.5	12.5	17.0	16.0	18.0	17.5	21.0	19.0	18.0	16.5	18.5	17.0
14	12.5	12.5	17.5	16.5	18.0	17.0	20.5	19.0	18.5	16.5	18.5	16.5
15	12.5	12.5	17.5	16.5	17.5	16.5	20.0	18.5	18.5	17.0	18.5	16.5
16	12.5	12.5	18.0	17.0	17.0	16.5	19.5	18.0	18.5	17.0	18.0	16.5
17	12.5	12.5	18.5	17.5	17.0	16.0	19.5	18.0	18.5	16.5	18.0	16.5
18	12.5	12.5	19.0	18.0	17.5	16.5	19.0	17.5	18.0	16.0	18.5	17.0
19	13.5	12.5	19.0	17.5	18.0	17.0	18.5	17.0	18.5	16.5	19.0	17.5
20	14.0	12.5	18.0	17.0	19.0	18.0	17.5	16.0	18.5	16.5	19.5	18.0
21	14.5	13.0	17.5	16.5	19.5	18.5	17.5	16.0	18.5	16.5	19.0	17.0
22	14.5	13.5	17.0	16.0	20.0	19.0	18.5	16.5	18.0	16.0	18.5	17.0
23	15.0	14.0	16.5	16.0	19.0	18.5	18.0	16.0	17.5	16.0	18.0	16.5
24	15.5	14.0	16.5	16.0	19.0	18.5	18.0	16.0	17.5	15.5	18.0	16.5
25	16.0	14.5	16.5	16.0	19.5	18.5	19.0	17.0	17.5	16.0	17.5	16.0
26	16.5	15.0	16.5	15.5	20.5	19.5	20.0	17.5	17.5	15.5	18.0	16.0
27	16.5	15.5	16.5	15.0	21.0	20.0	19.5	18.0	17.0	15.5	18.5	16.5
28	16.5	15.0	17.0	16.0	21.0	20.5	19.0	17.5	18.0	15.5	19.0	17.0
29	15.5	14.5	18.0	17.0	21.0	19.5	18.5	16.5	18.5	16.5	19.0	17.0
30	15.5	14.5	18.0	17.5	20.0	19.0	19.0	17.0	18.5	16.5	19.0	17.0
31	---	---	18.0	17.0	---	---	19.0	17.0	18.5	17.0	---	---
MONTH	16.5	10.0	19.0	14.0	21.0	16.0	21.0	16.0	23.0	15.5	19.5	16.0

## SAN JOAQUIN RIVER BASIN

11335000 COSUMNES RIVER AT MICHIGAN BAR, CALIF.

LOCATION.--Lat 38°30'01", long 121°02'39", in NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec.36, T.8 N., R.8 E., Sacramento County, at gaging station on downstream side of midstream pier of highway bridge at Michigan Bar, 5.5 miles southwest of Latrobe, and 12 miles downstream from confluence of North and Middle Forks of Cosumnes River.

DRAINAGE AREA.--536 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), October 1953 to September 1963, water years 1964-73 (partial-record station).

Water temperatures: October 1962 to September 1973.

Sediment records: Water years 1958-62 (partial-record station), October 1962 to September 1970, water years 1971-73 (partial-record station).

EXTREMES, 1972-73:

Water temperatures: Maximum recorded, 25.5°C on several days during July; minimum, 1.5°C Jan. 1, 2.

Period of record:

Water temperatures: Maximum (1965-73), 30.0°C Aug. 26, 27, 1967; minimum (1963-73), 1.5°C on several days in 1965, 1968, and 1973.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No temperature record Mar. 24-29, June 19 to July 2.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE- SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS-SOLVED CHLO- RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
NOV. 16...	1330	395	9.9	5.4	4.2	--	49	0	40	3.9	--	--
MAR. 13...	0900	1400	7.6	4.9	3.5	--	45	0	37	3.7	--	--
MAY 08...	1330	732	4.9	2.4	2.4	--	28	0	23	2.8	--	--
SEP. 21...	1020	30	6.1	2.7	4.2	1.2	36	0	30	2.4	.00	52

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON-CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (R) (UG/L)
NOV. 16...	--	--	47	7	.3	112	7.3	12.0	10	11.0	--
MAR. 13...	--	--	39	2	.2	90	7.3	8.0	4	12.3	--
MAY 08...	--	--	22	0	.2	54	7.3	16.0	--	11.7	--
SEP. 21...	.07	4.21	26	0	.4	61	7.3	22.0	0	8.9	0

11335000 COSUMNES RIVER AT MICHIGAN BAR, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	19.0	11.5	11.0	8.0	7.5	2.0	1.5	7.5	6.5	11.0	9.5
2	20.0	19.0	12.5	10.5	7.5	7.5	2.0	1.5	7.0	7.0	11.0	10.5
3	21.5	19.5	12.5	11.0	7.5	7.5	3.0	2.0	8.0	7.0	11.0	10.0
4	21.5	20.0	13.5	12.5	8.0	7.5	3.0	2.5	8.5	8.0	10.5	10.0
5	21.0	20.0	13.5	13.0	7.5	6.5	3.0	2.5	8.5	8.5	10.5	9.5
6	20.5	19.0	13.0	12.5	6.5	6.5	3.0	2.5	9.5	8.5	10.0	10.0
7	20.5	19.0	12.5	12.0	6.5	5.5	3.0	2.5	9.5	9.0	10.0	9.5
8	20.5	19.5	12.0	12.0	5.5	5.0	3.5	3.0	9.5	9.0	10.0	10.0
9	20.0	19.5	12.0	11.0	5.0	4.0	6.5	3.5	9.5	9.5	11.0	10.5
10	19.5	19.0	11.0	11.0	4.5	4.0	6.5	6.5	10.0	9.5	11.0	10.5
11	19.0	19.0	11.0	11.0	4.0	3.5	8.5	6.5	10.0	9.5	11.0	10.5
12	19.0	18.0	11.0	10.0	3.5	2.5	8.5	8.5	9.5	9.0	11.0	9.5
13	19.0	18.0	10.0	10.0	3.0	2.5	8.5	8.0	9.5	9.0	10.5	9.5
14	18.5	18.0	10.5	10.0	3.0	2.5	8.5	8.0	9.5	9.5	10.0	9.5
15	18.0	17.5	10.5	10.0	2.5	2.5	8.5	8.0	9.5	9.0	10.0	9.0
16	18.0	17.0	11.0	10.0	3.0	2.5	11.0	8.5	9.5	9.0	10.5	9.5
17	17.0	16.5	11.0	10.0	4.0	3.0	10.0	9.5	9.5	9.0	11.5	10.0
18	17.5	16.5	10.5	9.5	4.5	4.0	9.5	9.5	9.5	9.0	11.5	10.5
19	16.5	16.5	9.5	9.5	6.0	4.5	9.5	8.5	9.5	9.0	11.0	10.5
20	17.5	16.5	9.5	9.0	6.5	6.0	8.5	7.0	9.5	9.0	10.5	10.5
21	16.5	15.5	9.0	9.0	6.5	6.5	7.5	7.0	10.0	9.5	10.5	10.0
22	16.0	15.0	9.0	8.5	7.5	6.5	7.5	7.0	10.0	9.5	11.0	10.0
23	16.0	15.0	8.5	8.0	7.5	6.5	7.0	6.0	10.0	9.5	11.0	10.0
24	16.0	15.0	8.5	8.0	6.5	6.0	6.5	6.0	11.0	10.0	---	---
25	15.5	15.0	8.5	8.0	6.0	5.0	7.5	6.5	11.0	10.5	---	---
26	15.5	14.5	8.5	8.5	5.0	4.0	7.5	7.0	11.0	10.5	---	---
27	14.5	13.5	8.5	8.5	4.5	4.5	7.0	6.5	11.0	10.5	---	---
28	14.5	13.5	8.5	8.0	5.0	4.5	6.5	5.5	11.0	10.5	---	---
29	14.0	12.5	8.0	8.0	4.5	3.5	6.0	6.0	---	---	---	---
30	13.0	11.5	8.0	8.0	3.5	2.5	7.0	6.0	---	---	10.5	10.0
31	12.0	10.5	---	---	2.5	2.0	7.5	7.0	---	---	12.0	10.5
MONTH	21.5	10.5	13.5	8.0	8.0	2.0	11.0	1.5	11.0	6.5	12.0	9.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	13.5	11.5	18.5	16.5	---	---	25.0	24.5	23.0	21.0
2	10.5	10.0	14.0	12.5	18.0	17.0	---	---	24.5	24.0	22.5	20.5
3	12.0	11.0	14.0	12.5	19.0	18.0	24.5	24.0	24.5	23.5	22.5	20.5
4	13.0	11.5	14.0	13.0	19.5	18.5	25.0	24.5	24.5	24.0	22.5	20.5
5	13.5	12.0	13.0	11.5	20.5	19.5	24.5	24.0	25.5	24.0	22.5	21.0
6	14.0	13.0	13.5	12.5	21.0	20.0	25.0	24.0	24.5	23.5	22.0	20.5
7	14.0	13.5	14.5	13.5	21.0	20.5	24.5	24.0	24.0	23.5	22.5	21.0
8	14.0	13.0	14.5	13.5	21.5	20.5	24.5	24.5	24.0	23.0	22.5	20.0
9	13.5	13.0	15.0	14.5	22.0	21.0	25.0	24.5	23.5	23.0	22.5	20.0
10	14.0	13.0	15.5	15.0	22.0	21.0	25.5	24.5	23.5	23.0	22.5	20.5
11	14.0	13.5	16.0	15.5	21.0	20.5	25.5	25.5	24.0	23.5	22.5	20.5
12	14.0	13.0	16.5	15.5	21.0	20.5	25.5	25.0	24.0	23.5	22.5	20.5
13	13.5	12.5	16.5	16.0	20.5	19.5	25.5	25.0	24.0	23.5	22.5	20.5
14	12.5	11.0	16.5	16.0	19.5	19.0	25.5	25.0	24.0	23.5	22.5	20.5
15	12.5	11.5	16.5	16.0	19.5	18.5	25.5	24.5	24.5	23.5	22.5	20.0
16	12.0	11.5	17.0	16.0	19.5	19.0	25.5	24.5	24.0	23.5	22.0	19.5
17	12.5	11.5	17.0	16.5	19.5	19.0	25.5	24.5	24.0	23.0	21.5	19.5
18	12.0	11.0	17.5	16.0	19.5	18.5	25.5	24.5	24.0	22.5	21.0	19.5
19	12.0	11.5	17.5	16.5	---	---	25.0	24.0	23.5	22.5	21.5	20.0
20	12.0	11.0	17.0	15.0	---	---	25.0	23.5	23.5	22.5	21.5	20.5
21	12.5	11.0	16.5	15.5	---	---	24.0	23.5	23.0	22.0	21.5	20.0
22	13.0	12.0	17.0	16.0	---	---	24.0	23.5	22.5	21.0	20.0	19.5
23	13.5	12.5	17.0	16.5	---	---	24.5	23.5	21.5	21.0	20.0	19.0
24	14.0	13.5	17.0	16.5	---	---	24.0	23.5	21.5	20.5	20.0	19.0
25	14.0	13.0	16.5	16.5	---	---	24.5	24.0	22.5	21.0	19.5	18.5
26	14.5	13.5	16.5	15.5	---	---	25.0	24.5	22.5	21.0	19.5	18.5
27	14.5	13.5	17.0	15.5	---	---	25.5	25.0	22.5	20.5	20.0	18.5
28	14.5	13.0	18.5	16.5	---	---	25.5	24.5	22.5	21.0	20.0	18.5
29	13.5	12.5	19.5	18.0	---	---	25.0	24.5	23.0	21.5	20.0	18.5
30	13.0	12.0	19.5	19.0	---	---	25.0	24.5	23.0	21.5	20.5	18.5
31	---	---	19.5	18.5	---	---	25.0	24.0	23.5	21.5	---	---
MONTH	14.5	10.0	19.5	11.5	---	---	25.5	23.5	25.5	20.5	23.0	18.5

## SAN JOAQUIN RIVER BASIN

11335000 COSUMNES RIVER AT MICHIGAN BAR, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SED- IMENT (MG/L)	SUS- PENDE SED- IMENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
NOV. 01...	1240	11.0	24	1	.06	--	--	--
DEC. 04...	1115	7.5	58	2	.31	--	--	--
JAN. 02...	0950	1.5	179	2	.97	--	--	--
16...	1535	11.0	13120	904	32000	16	22	29
16...	1550	11.0	13300	1020	36600	--	--	--
FEB. 01...	1035	6.5	1090	6	18	--	--	--
13...	1205	9.5	2640	31	221	--	--	--
MAR. 01...	1100	10.5	2040	26	143	--	--	--
APR. 02...	1010	10.5	902	3	7.3	--	--	--
MAY 01...	1000	12.5	980	2	5.3	--	--	--
JUNE 01...	1120	17.0	416	3	3.4	--	--	--
JULY 02...	1125	23.5	64	2	.35	--	--	--
AUG. 07...	0950	23.5	60	2	.32	--	--	--
SEP. 04...	0920	22.0	27	2	.15	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV. 01...	--	--	--	--	--	--	--
DEC. 04...	--	--	--	--	--	--	--
JAN. 02...	--	--	--	--	--	--	--
16...	37	44	51	55	67	91	100
16...	--	--	--	--	--	--	--
FEB. 01...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
MAR. 01...	--	--	--	--	--	--	--
APR. 02...	--	--	--	--	--	--	--
MAY 01...	--	--	--	--	--	--	--
JUNE 01...	--	--	--	--	--	--	--
JULY 02...	--	--	--	--	--	--	--
AUG. 07...	--	--	--	--	--	--	--
SEP. 04...	--	--	--	--	--	--	--



## SACRAMENTO RIVER BASIN

327

11341400 SACRAMENTO RIVER NEAR MT SHASTA, CALIF.

LOCATION.--Lat 41°15'56", long 122°18'32", in SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec.33, T.40 N., R.4 W., Siskiyou County, at gaging station on left bank, 200 ft upstream from Stink Creek, 0.3 mile upstream from Southern Pacific Railroad bridge, and 3.3 miles south of town of Mt Shasta.

DRAINAGE AREA.--135 sq mi.

PERIOD OF RECORD.--Chemical analyses: May 1970 to September 1972.

Water temperatures: October 1965 to September 1973.

Sediment records: Water year 1972 (partial-record station).

EXTREMES, 1972-73:

Water temperatures: Maximum, 17.0°C July 4, 5; minimum, 2.0°C Dec. 8, 10, 11, 14.

Period of record:

Water temperatures: Maximum (1966-73), 18.5°C sometime during period July 24 to Aug. 8, 1972; minimum (1965-66, 1967-73), 1.5°C on several days in 1968 and 1969.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	9.5	10.0	9.5	8.5	6.5	4.0	3.5	4.0	3.0	4.5	4.5
2	12.0	10.0	11.0	9.0	7.0	5.0	4.5	4.0	4.5	3.5	4.5	4.5
3	12.0	9.5	11.5	11.0	6.5	4.5	4.5	4.0	4.5	4.0	4.5	4.5
4	12.0	10.0	11.5	11.0	5.5	4.0	4.5	3.5	4.5	4.0	5.0	4.5
5	11.5	9.5	11.0	10.0	4.5	2.5	5.0	4.5	5.0	4.5	5.0	4.5
6	11.5	9.0	10.5	10.0	5.0	2.5	6.0	4.5	4.5	4.5	5.0	4.5
7	12.0	10.0	10.5	10.5	5.0	4.0	5.0	4.0	5.0	4.5	5.0	4.5
8	12.0	9.5	11.0	10.0	4.0	2.0	5.0	3.5	4.5	4.0	5.0	4.5
9	11.5	10.5	10.5	10.0	3.5	2.5	4.5	4.0	4.0	4.0	6.5	5.0
10	12.0	10.5	11.0	10.0	3.0	2.0	4.5	4.0	4.0	4.0	6.0	5.0
11	13.0	11.5	10.5	9.5	4.0	2.0	4.5	4.0	4.0	4.0	5.5	4.5
12	13.5	12.5	10.0	9.0	4.0	3.0	4.0	4.5	4.0	4.0	6.0	5.0
13	13.5	12.5	9.5	8.5	4.0	3.0	5.0	4.0	4.0	4.0	6.0	5.0
14	13.0	12.5	9.5	8.0	3.0	2.0	4.5	4.0	5.0	4.0	6.0	5.0
15	13.0	12.5	9.5	8.5	4.5	2.5	4.5	4.0	4.0	4.0	6.5	4.5
16	13.0	12.5	9.5	8.0	5.0	4.0	4.5	4.0	5.0	4.0	5.5	5.0
17	13.0	12.5	9.5	9.0	5.0	3.5	4.0	4.0	5.0	4.0	6.0	5.0
18	12.5	10.5	9.5	9.0	5.0	2.5	4.5	4.0	5.0	3.5	6.0	5.0
19	11.0	10.0	10.0	9.5	5.0	3.5	4.0	3.5	5.0	3.5	5.5	5.0
20	11.0	10.0	9.5	9.0	6.0	5.0	4.0	3.5	5.0	4.0	6.5	5.0
21	11.0	10.0	9.5	9.0	6.0	6.0	4.5	3.5	4.5	4.0	6.0	5.5
22	11.5	10.5	9.5	8.5	6.0	5.0	4.0	3.5	5.0	4.5	6.5	5.5
23	11.5	10.5	9.5	9.0	6.0	5.5	4.0	3.5	5.0	4.5	6.5	5.5
24	11.0	10.5	9.5	9.0	6.0	5.0	4.0	4.0	5.0	4.0	7.0	5.5
25	11.5	10.0	9.5	9.0	5.0	4.5	4.0	3.5	5.5	4.5	7.0	6.0
26	11.5	10.5	9.5	9.5	5.5	5.0	3.5	3.0	5.0	5.0	7.5	6.0
27	11.5	10.5	9.5	9.5	5.5	5.0	4.0	3.0	5.0	4.5	7.0	6.0
28	11.5	10.5	9.5	8.5	5.0	4.0	4.0	3.0	5.0	4.5	7.0	6.0
29	11.5	10.5	8.5	7.5	4.5	4.0	4.0	3.5	---	---	7.0	6.0
30	11.5	10.5	8.5	7.5	4.5	3.5	4.5	4.0	---	---	6.5	6.0
31	11.5	10.0	---	---	4.0	4.0	4.0	3.5	---	---	6.5	6.0
MONTH	13.5	9.0	11.5	7.5	8.5	2.0	6.0	3.0	5.5	3.0	7.5	4.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.0	7.5	7.5	12.0	11.0	14.5	9.5	15.5	10.5	14.0	10.5
2	7.0	6.0	8.0	7.5	12.0	11.0	15.0	9.5	15.0	10.0	14.5	10.0
3	7.0	5.5	8.0	7.5	13.0	11.0	16.5	11.0	16.0	10.5	14.5	10.0
4	8.0	6.0	8.0	7.5	12.5	11.0	17.0	12.0	16.0	10.5	15.0	11.0
5	8.5	6.5	8.0	7.5	12.5	11.0	17.0	12.5	16.0	10.5	15.5	11.0
6	9.0	7.0	8.0	7.5	13.0	11.5	16.5	12.5	16.0	10.5	15.0	11.5
7	7.5	6.5	8.5	8.0	14.5	12.0	15.5	11.0	16.0	10.5	16.0	12.0
8	7.5	6.0	8.5	8.0	14.5	12.0	14.5	11.0	15.5	10.5	15.0	11.0
9	7.5	6.5	8.5	7.5	14.5	12.5	14.0	10.5	15.5	10.5	15.0	11.0
10	7.0	6.5	8.5	8.0	13.5	12.0	14.0	10.5	15.5	10.5	15.5	11.0
11	6.5	6.0	8.5	8.0	15.5	12.5	13.5	10.5	15.5	10.5	15.5	11.5
12	6.5	6.5	8.5	8.0	15.0	13.5	14.0	11.0	15.5	10.5	15.5	11.5
13	6.5	6.5	10.5	8.5	15.0	13.5	15.0	10.5	15.5	10.0	16.0	12.0
14	6.5	6.5	10.5	8.5	15.5	13.5	15.0	10.5	15.5	10.0	15.0	12.0
15	7.0	6.5	10.0	8.5	14.5	13.0	15.5	10.5	15.5	10.0	15.0	11.0
16	7.0	7.0	10.0	8.5	16.0	13.0	16.0	11.0	15.0	10.5	15.5	11.5
17	7.5	6.5	10.0	9.0	16.5	13.0	16.0	11.0	14.0	10.0	15.5	12.0
18	7.0	6.5	10.0	9.0	16.5	13.0	16.0	11.0	15.5	10.5	15.0	12.0
19	7.5	6.5	9.5	9.0	16.0	11.0	15.5	11.0	15.0	10.0	14.5	13.0
20	7.5	6.5	9.5	9.0	14.0	10.5	13.5	10.5	15.0	11.0	15.5	12.0
21	8.0	6.5	9.5	9.0	14.0	10.5	14.5	10.5	15.5	10.5	14.0	12.0
22	8.0	7.0	10.5	9.0	14.0	11.0	14.0	10.5	15.0	10.0	12.0	11.5
23	8.0	7.0	10.0	9.5	14.0	11.5	14.5	10.0	14.0	10.5	13.5	11.5
24	8.0	7.0	10.0	9.5	14.0	11.0	15.0	10.0	14.0	10.5	13.5	12.0
25	8.0	7.0	10.5	9.5	15.0	11.0	15.0	10.5	15.0	11.0	14.0	12.0
26	8.0	7.5	10.5	9.5	14.5	11.0	15.5	11.0	15.0	10.5	13.5	11.0
27	8.0	7.5	10.5	10.0	14.5	11.0	15.5	11.0	15.0	11.0	13.5	11.0
28	7.5	7.5	11.5	10.0	14.0	11.0	15.5	11.0	15.0	10.5	13.5	11.0
29	7.5	7.0	12.5	10.5	14.0	10.5	16.0	11.0	15.5	10.5	14.0	11.0
30	7.5	7.5	12.5	11.0	14.0	10.0	15.5	11.0	14.5	11.0	13.5	11.0
31	---	---	12.0	11.5	---	---	15.5	11.0	15.5	11.5	---	---
MONTH	9.0	5.5	12.5	7.5	16.5	10.0	17.0	9.5	16.0	10.0	16.0	10.0

## SACRAMENTO RIVER BASIN

## 11342000 SACRAMENTO RIVER AT DELTA, CALIF.

LOCATION.--Lat 40°56'23", long 122°24'58", in SW¼NW¼ sec.35, T.36 N., R.5 W., Shasta County, Bureau of Reclamation property, at gaging station on left bank 0.2 mile downstream from Dog Creek, 0.6 mile southeast of Delta, and 2.8 miles south of Lamoine.

DRAINAGE AREA.--425 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), December 1953 to September 1972, water year 1973 (partial-record station).

Water temperatures: June to September 1951, October 1953 to September 1957, October 1962 to September 1973.

## EXTREMES, 1972-73:

Water temperatures: Maximum, 26.0°C on several days during July and August; minimum, freezing point on several days during December.

## Period of record:

Water temperatures: Maximum (1951, 1953-57, 1963-73), 29.5°C July 15, 1972; minimum, freezing point on several days in 1964, 1967, 1968, and 1973.

REMARKS.--Chemical-quality analyses furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
NOV. 02...	1330	207	--	--	--	--	--	--	--
JAN. 23...	1425	1800	--	--	--	--	--	--	--
MAR. 13...	1100	1790	100	10	3.2	44	0	36	1.6
MAY 15...	1410	2880	--	--	--	--	--	--	--
JULY 02...	0920	305	--	--	--	--	--	--	--
SEP. 06...	1430	196	--	--	--	--	--	--	--

DATE	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
NOV. 02...	--	--	--	--	--	--	--	153	8.1
JAN. 23...	--	--	--	--	--	--	--	82	7.2
MAR. 13...	.02	.00	.01	.01	35	0	.2	81	7.3
MAY 15...	--	--	--	--	--	--	--	72	7.5
JULY 02...	--	--	--	--	--	--	--	118	7.7
SEP. 06...	--	--	--	--	--	--	--	145	8.3

DATE	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTL)	DIS- SOLVED OXYGEN (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV. 02...	10.0	1	11.8	--	--	--	--	--	--
JAN. 23...	5.0	0	12.4	--	--	--	--	--	--
MAR. 13...	6.0	1	11.0	0	0	0	0	20	10
MAY 15...	12.0	20	10.4	--	--	--	--	--	--
JULY 02...	16.0	1	9.5	--	--	--	--	--	--
SEP. 06...	18.5	1	11.5	--	--	--	--	--	--

## SACRAMENTO RIVER BASIN

329

11342000 SACRAMENTO RIVER AT DELTA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	13.5	9.0	8.0	10.0	7.5	7.0	4.5	7.5	4.5	9.0	7.0
2	19.0	13.5	12.5	9.0	8.0	6.0	6.0	5.0	7.5	6.0	9.0	6.0
3	19.0	13.5	10.5	10.0	6.0	3.5	5.0	4.0	7.5	6.5	7.5	5.0
4	18.0	14.0	12.0	10.0	5.0	3.0	5.0	3.0	7.0	6.5	7.5	4.5
5	17.5	13.5	11.0	8.5	3.0	1.0	4.0	3.0	9.0	7.0	8.0	5.0
6	16.5	12.0	8.5	7.0	1.5	1.0	5.0	3.0	8.0	7.5	7.5	4.5
7	17.0	12.0	9.0	8.0	3.0	1.0	4.0	2.5	8.0	7.5	7.5	4.5
8	15.0	13.0	11.0	8.0	2.0	0.0	3.0	2.5	8.0	7.0	10.0	5.5
9	13.5	12.0	8.5	7.0	0.5	0.0	2.5	2.0	8.0	7.0	9.5	6.5
10	13.0	12.0	8.0	7.0	1.0	0.0	5.0	2.5	7.5	6.5	9.5	7.5
11	12.0	11.0	9.0	7.0	1.0	0.0	5.5	5.0	9.0	6.5	9.5	5.5
12	13.0	11.0	8.0	6.0	1.0	0.0	6.5	5.0	8.0	7.0	8.5	5.5
13	14.0	12.0	8.0	8.0	2.0	0.0	8.5	6.5	8.0	6.5	9.0	5.5
14	13.0	11.5	8.5	6.5	1.5	0.5	8.5	6.5	8.0	7.5	9.5	5.0
15	12.5	11.5	9.0	8.0	1.0	0.5	8.0	7.0	9.0	5.5	10.5	5.5
16	13.5	11.5	9.0	7.5	2.0	1.0	9.0	8.0	9.0	5.5	10.0	7.5
17	14.0	12.0	10.0	7.0	5.0	2.0	8.5	8.0	9.5	6.5	8.0	6.0
18	15.0	11.5	9.0	8.0	6.0	5.0	9.0	8.0	9.0	5.5	8.5	4.5
19	15.0	11.5	9.5	8.5	7.5	6.0	9.0	7.5	9.0	5.0	8.0	4.5
20	15.0	11.5	9.5	7.5	9.5	7.5	8.5	6.5	9.5	5.5	6.0	3.5
21	14.5	10.5	8.5	7.5	9.5	9.0	8.5	6.5	10.0	6.5	6.0	5.0
22	14.5	11.0	9.5	7.5	10.0	9.0	8.0	5.5	9.5	6.5	10.0	5.0
23	15.0	11.0	8.5	6.5	10.0	9.5	7.5	5.0	8.0	6.0	11.0	5.5
24	14.0	11.0	9.0	6.5	10.0	8.0	7.0	5.5	8.0	7.0	11.0	6.0
25	13.0	9.0	9.5	7.0	9.5	7.5	6.5	5.5	7.0	7.0	11.5	7.0
26	13.0	9.5	11.0	8.5	9.0	7.0	6.5	4.5	7.5	7.0	11.5	7.5
27	12.0	8.5	11.0	8.5	8.5	7.5	5.5	3.5	7.0	7.0	11.0	7.0
28	9.5	7.5	10.5	7.5	7.5	6.0	6.5	4.0	7.5	7.0	10.5	6.0
29	9.0	5.5	10.0	7.5	6.5	5.0	6.0	4.5	---	---	9.0	5.5
30	8.5	5.0	9.0	7.0	6.5	5.0	6.0	4.5	---	---	9.0	7.0
31	9.0	6.0	---	---	7.0	5.0	7.0	5.0	---	---	9.0	6.0
MONTH	19.0	5.0	12.5	6.0	10.0	0.0	9.0	2.0	10.0	4.5	11.5	3.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	5.5	13.0	7.5	17.5	12.0	21.5	16.0	26.0	20.0	20.5	15.5
2	11.0	5.5	13.5	8.0	18.0	12.5	22.0	16.0	25.0	19.0	21.0	14.5
3	12.0	6.5	13.5	9.0	18.5	13.0	24.0	17.5	25.0	18.5	21.5	14.0
4	13.0	7.5	11.5	9.0	19.5	13.5	25.0	19.0	25.0	19.0	22.5	15.5
5	13.5	9.0	14.5	7.5	19.5	14.0	25.0	20.0	25.0	20.0	21.0	17.0
6	14.0	9.0	13.5	8.5	21.0	15.5	24.0	19.5	25.0	20.0	21.5	16.0
7	12.5	8.5	13.5	9.0	21.5	16.0	24.0	18.5	24.5	19.5	20.5	16.0
8	12.0	7.0	15.0	9.5	22.5	17.5	24.5	18.5	23.5	18.0	20.0	14.5
9	12.5	8.5	14.0	8.5	21.0	17.0	25.0	19.0	23.5	18.5	21.5	14.5
10	14.0	8.5	15.5	9.0	19.0	15.5	25.0	19.0	24.5	18.0	22.0	16.0
11	12.5	8.0	16.0	9.0	20.0	15.5	24.5	19.5	25.0	18.5	23.0	17.0
12	12.5	8.5	17.0	9.5	19.5	17.0	25.0	19.5	25.0	19.5	23.0	17.5
13	10.5	8.5	17.0	10.5	18.5	16.5	25.5	20.0	24.0	18.0	22.0	18.0
14	12.0	7.5	17.0	11.5	17.0	14.5	25.5	19.5	24.0	17.5	22.0	17.0
15	12.0	8.5	17.0	11.5	17.5	14.0	25.5	20.5	24.0	18.0	20.0	15.5
16	10.5	8.5	17.5	11.5	17.0	15.0	26.0	21.0	23.5	17.5	20.0	15.5
17	11.0	7.5	18.0	11.5	17.0	12.5	25.5	21.0	23.0	17.5	20.0	15.0
18	10.5	5.5	18.0	12.0	18.5	13.5	26.0	21.0	23.0	17.5	19.5	15.5
19	11.0	6.0	17.0	11.0	21.0	15.0	25.0	21.0	22.0	16.5	18.0	14.5
20	12.0	6.0	16.5	11.0	23.0	17.0	22.5	19.5	22.0	17.0	17.5	14.0
21	13.0	7.0	17.0	10.5	22.0	18.0	21.0	17.5	22.0	16.0	18.0	13.5
22	14.0	8.0	17.0	11.0	21.5	18.0	22.0	16.5	21.0	16.0	15.5	13.0
23	14.5	9.0	15.5	11.5	20.0	17.5	23.0	16.5	19.5	15.5	14.0	12.0
24	14.5	8.5	14.0	11.0	22.0	16.5	24.0	17.0	17.5	14.5	16.5	13.0
25	15.5	8.5	14.5	9.5	23.0	17.5	24.5	18.0	19.5	14.0	17.5	12.5
26	15.0	9.0	15.0	9.5	25.0	19.5	26.0	19.5	21.0	14.5	18.0	12.5
27	15.0	9.5	17.5	10.5	25.0	20.0	26.0	20.5	21.0	16.5	18.5	13.0
28	13.5	8.5	19.0	12.5	25.5	20.5	26.0	20.5	22.5	16.0	19.5	13.5
29	13.0	7.5	19.0	13.5	24.5	20.5	26.0	21.0	23.0	17.0	18.0	14.0
30	13.5	7.5	17.5	14.5	22.5	18.5	26.0	20.5	22.5	18.0	18.0	14.0
31	---	---	15.5	13.5	---	---	26.0	20.0	22.5	17.5	---	---
MONTH	15.5	5.5	19.0	7.5	25.5	12.0	26.0	16.0	26.0	14.0	23.0	12.0

## SACRAMENTO RIVER BASIN

11348500 PIT RIVER NEAR CANBY, CALIF.

LOCATION.--Lat 41°24'22", long 120°55'36", in NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.10, T.41 N., R.9 E., Modoc County, at gaging station on right bank at lower end of Warm Spring Valley, and 4 miles southwest of Canby.

DRAINAGE AREA.--1,431 sq mi, excluding Goose Lake basin.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-58 (partial-record station), October 1958 to September 1971, water years 1972-73 (partial-record station).

Water temperatures: March 1965 to September 1973.

Sediment records: Water years 1957-61, 1967-70 (partial-record station).

## EXTREMES, 1972-73:

Water temperatures: Maximum, 31.0°C June 28; minimum, freezing point on many days during winter period.

## Period of record:

Water temperatures: Maximum (1965-71, 1972-73), 31.0°C June 28, 1973; minimum (1965-66, 1967-69, 1970-73), freezing point on many days during winter period most years.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Clock stopped Oct. 30 to Nov. 21, Dec. 4 to Jan. 9; range in temperature, 0.0°C to 8.5°C and 0.0°C to 4.5°C, respectively.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT. 11...	0830	85	--	--	--	--	--	--	--
NOV. 02...	0815	87	--	--	33	157	0	129	8.2
DEC. 14...	0830	51	--	--	--	--	--	--	--
JAN. 23...	0845	128	--	--	--	--	--	--	--
FEB. 20...	1530	228	--	--	--	--	--	--	--
MAR. 14...	1305	360	4800	110	20	107	0	88	4.7
APR. 12...	0845	400	--	--	--	--	--	--	--
MAY 15...	0730	435	--	--	--	--	--	--	--
JUNE 13...	1415	69	--	--	--	--	--	--	--
AUG. 09...	0805	24	--	--	--	--	--	--	--
SEP. 06...	0925	62	--	--	--	--	--	--	--

## SACRAMENTO RIVER BASIN

331

11348500 PIT RIVER NEAR CANBY, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
OCT.									
11...	--	--	--	--	--	--	--	317	7.5
NOV.									
02...	--	--	--	--	86	0	1.5	288	8.0
DEC.									
14...	--	--	--	--	--	--	--	288	7.6
JAN.									
23...	--	--	--	--	--	--	--	253	7.5
FEB.									
20...	--	--	--	--	--	--	--	241	7.7
MAR.									
14...	.11	.60	.14	.07	66	0	1.1	213	7.5
APR.									
12...	--	--	--	--	--	--	--	140	7.6
MAY									
15...	--	--	--	--	--	--	--	175	7.4
JUNE									
13...	--	--	--	--	--	--	--	239	8.0
AUG.									
09...	--	--	--	--	--	--	--	262	8.0
SEP.									
06...	--	--	--	--	--	--	--	223	8.0

DATE	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PR) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.									
11...	11.0	30	8.3	--	--	--	--	--	--
NOV.									
02...	3.0	10	11.0	--	200	--	--	--	--
DEC.									
14...	.0	10	--	--	--	--	--	--	--
JAN.									
23...	.0	65	11.7	--	--	--	--	--	--
FEB.									
20...	6.0	30	10.8	--	--	--	--	--	--
MAR.									
14...	4.0	40	9.3	0	0	0	10	10	20
APR.									
12...	10.5	75	8.1	--	--	--	--	--	--
MAY									
15...	16.5	30	7.5	--	--	--	--	--	--
JUNE									
13...	20.0	30	7.9	--	--	--	--	--	--
AUG.									
09...	18.5	20	7.8	--	--	--	--	--	--
SEP.									
06...	16.0	3	9.4	--	--	--	--	--	--

## SACRAMENTO RIVER BASIN

11348500 PIT RIVER NEAR CANBY, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	14.0	---	---	5.0	1.0	---	---	0.0	0.0	7.0	4.0
2	18.0	13.0	---	---	4.0	1.0	---	---	1.0	0.0	8.0	3.0
3	18.5	13.5	---	---	3.0	1.0	---	---	2.5	0.0	5.5	3.0
4	18.5	14.0	---	---	---	---	---	---	4.0	1.0	4.5	2.0
5	17.0	13.5	---	---	---	---	---	---	5.5	2.5	6.5	1.0
6	16.0	11.5	---	---	---	---	---	---	5.0	3.0	6.0	3.5
7	16.0	11.5	---	---	---	---	---	---	5.5	3.5	7.5	2.5
8	16.5	13.0	---	---	---	---	---	---	5.0	3.0	9.5	4.0
9	15.5	13.0	---	---	---	---	---	---	4.0	3.0	8.0	5.5
10	13.0	11.5	---	---	---	---	0.0	0.0	4.0	2.0	7.0	4.0
11	14.0	11.0	---	---	---	---	0.0	0.0	4.5	2.5	6.0	1.5
12	13.0	10.0	---	---	---	---	0.5	0.0	4.0	2.5	4.5	2.0
13	13.5	10.0	---	---	---	---	1.0	0.0	4.5	2.0	3.5	2.0
14	11.0	9.0	---	---	---	---	1.0	0.0	4.0	3.0	6.0	1.0
15	11.5	8.5	---	---	---	---	2.5	1.0	4.0	2.5	8.5	2.5
16	13.0	9.0	---	---	---	---	2.5	2.0	4.5	2.0	10.0	5.5
17	12.5	9.0	---	---	---	---	2.5	1.5	6.0	2.0	7.5	5.5
18	14.0	8.5	---	---	---	---	2.0	1.0	5.5	2.0	8.0	4.0
19	14.0	8.5	---	---	---	---	1.5	0.0	6.5	1.5	6.5	4.5
20	14.5	9.0	---	---	---	---	1.0	0.0	7.5	2.5	6.5	4.5
21	15.0	9.0	---	---	---	---	1.5	0.0	8.0	3.0	5.0	3.0
22	15.5	9.0	4.0	1.0	---	---	1.0	0.0	8.5	4.0	7.5	2.5
23	15.0	9.5	2.5	0.0	---	---	0.5	0.0	8.5	4.5	9.5	3.5
24	12.5	8.5	4.5	0.0	---	---	0.5	0.0	7.5	5.5	10.5	5.5
25	12.5	6.5	5.5	1.5	---	---	0.5	0.0	8.0	5.0	11.5	7.5
26	11.0	7.0	6.5	3.0	---	---	0.5	0.0	6.0	4.0	12.5	8.0
27	10.0	4.0	5.5	2.5	---	---	0.0	0.0	5.5	3.5	9.0	4.5
28	8.0	3.5	5.5	3.0	---	---	1.0	0.0	7.5	4.0	7.0	3.5
29	4.0	2.0	6.0	3.0	---	---	1.0	0.0	---	---	6.5	2.5
30	---	---	5.5	2.0	---	---	0.0	0.0	---	---	5.0	4.0
31	---	---	---	---	---	---	1.5	0.0	---	---	7.5	3.5
MONTH	18.5	2.0	---	---	---	---	---	---	8.5	0.0	12.5	1.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	2.5	16.5	11.0	22.5	17.5	25.0	18.0	29.5	22.5	20.0	15.0
2	8.5	2.5	16.0	13.0	22.0	17.5	26.5	18.5	26.5	22.0	21.0	13.0
3	9.5	3.5	16.5	13.0	22.5	17.0	27.5	18.5	27.5	21.0	22.0	14.0
4	11.5	6.0	13.0	9.0	24.5	17.5	28.5	21.0	26.5	20.0	22.5	15.5
5	14.0	8.5	14.0	8.5	25.5	19.5	28.0	21.5	26.0	19.5	23.0	15.5
6	14.5	9.5	14.0	9.5	26.5	20.0	27.0	20.5	25.0	22.0	22.0	16.0
7	12.5	8.5	17.0	12.0	27.5	20.5	27.0	20.0	24.0	19.0	20.5	16.0
8	13.0	7.5	18.5	13.5	29.5	20.5	27.0	22.0	25.0	18.0	20.0	14.0
9	13.5	10.0	18.5	14.0	28.5	21.5	28.5	20.0	24.0	19.0	21.0	14.0
10	14.0	10.0	20.5	14.0	26.0	19.5	28.5	20.0	25.5	18.0	22.5	15.0
11	15.0	10.0	21.5	15.0	25.5	19.0	27.5	21.0	26.0	19.0	23.5	16.0
12	13.5	11.0	24.5	16.5	23.0	20.5	27.0	22.0	26.0	19.0	24.0	17.5
13	11.0	7.0	22.5	20.0	21.5	19.0	28.0	20.5	25.5	18.0	23.0	17.5
14	10.5	6.0	21.5	18.5	20.5	15.5	29.0	19.5	25.5	17.5	22.0	16.5
15	10.0	7.0	22.5	17.0	21.0	14.0	29.0	21.0	25.0	17.0	20.5	15.0
16	10.0	8.0	23.0	17.5	17.5	14.0	29.5	21.0	24.0	16.5	21.0	15.0
17	9.5	6.5	24.5	19.0	18.0	13.0	26.0	20.5	23.0	16.0	20.5	14.5
18	8.0	5.0	24.5	20.0	21.5	12.0	26.0	20.0	22.0	15.0	19.0	15.0
19	6.5	3.5	24.0	20.5	26.5	16.0	27.0	21.0	21.5	14.5	17.0	13.5
20	9.0	4.5	23.0	18.5	27.5	18.5	26.5	20.0	22.0	15.0	16.0	12.0
21	12.0	6.5	22.5	17.0	27.5	20.5	23.5	18.0	22.0	16.0	18.0	11.5
22	13.5	9.0	22.5	18.0	25.5	19.5	24.5	17.0	21.5	15.5	14.5	12.5
23	16.5	10.0	22.0	18.5	21.0	18.0	24.5	16.5	19.5	14.5	14.5	11.5
24	17.0	11.0	19.5	16.0	24.0	17.0	26.0	19.0	17.5	13.5	13.0	10.5
25	19.0	12.0	17.5	14.5	27.0	19.0	28.0	21.0	19.5	13.5	16.0	10.5
26	19.0	14.0	18.0	13.5	29.5	22.5	28.5	21.5	19.0	13.0	17.0	11.0
27	18.5	14.5	21.0	14.5	30.0	23.5	29.0	21.0	20.5	14.5	18.5	11.5
28	18.0	14.0	23.0	17.0	31.0	23.5	29.0	22.5	23.0	15.0	20.0	13.0
29	16.0	12.0	26.0	19.5	29.5	23.5	28.5	21.0	23.5	16.0	19.5	14.0
30	15.5	10.5	24.5	21.5	26.5	20.0	29.0	20.0	22.5	17.0	19.0	14.0
31	---	---	22.0	20.0	---	---	28.5	20.5	22.5	17.0	---	---
MONTH	19.0	2.5	26.0	8.5	31.0	12.0	29.5	16.5	29.5	13.0	24.0	10.5

## SACRAMENTO RIVER BASIN

333

11370500 SACRAMENTO RIVER AT KESWICK, CALIF.

LOCATION.--Lat 40°36'04", long 122°26'36", in SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec.28, T.32 N., R.5 W., Shasta County, at gaging station 0.4 mile upstream from Middle Creek, 0.8 mile downstream from Keswick Dam, 1.6 miles downstream from Keswick, and 10 miles downstream from Shasta Dam.

DRAINAGE AREA.--6,468 sq mi, excluding Goose Lake basin.

PERIOD OF RECORD.--Chemical analyses: Water years 1951 and 1953 (partial-record station), December 1953 to September 1973. Published as "near" in 1951 and 1953; as "at Keswick Dam, near Keswick" in 1968-69.

REMARKS.--Records furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LILITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOC. PHOS- PHORUS (P) (MG/L)
OCT. 16...	1000	6100	--	--	--	--	--	--	.00	.02	.01
NOV. 13...	1400	6280	5.4	60	0	49	1.0	.12	.10	.03	.02
DEC. 13...	1215	7610	--	--	--	--	--	.08	.10	.03	.02
JAN. 05...	1245	12100	--	--	--	--	--	.12	.10	.02	.02
FEB. 02...	1115	14100	--	--	--	--	--	.08	.10	.03	.02
MAR. 23...	1215	5110	3.9	41	0	34	.0	.06	.00	.01	.00
APR. 10...	1105	6010	--	--	--	--	--	.06	.10	.01	.00
MAY 18...	1045	10300	--	--	--	--	--	.06	.10	.03	.01
JUNE 14...	1505	10400	--	--	--	--	--	.07	.10	.02	.01
JULY 17...	1300	12300	4.1	55	0	45	3.6	.07	.10	.03	.01
AUG. 07...	0915	11100	--	--	--	--	--	.10	.00	.02	.02
SEP. 20...	1110	9070	--	--	--	--	--	.06	.10	.03	.00

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 16...	--	--	--	101	7.2	11.0	3	10.1	--	--
NOV. 13...	42	0	.4	124	7.2	11.0	4	8.6	0	.0
DEC. 13...	--	--	--	122	7.1	10.0	--	9.0	--	--
JAN. 05...	--	--	--	127	7.2	8.0	2	10.0	--	--
FEB. 02...	--	--	--	119	7.2	7.0	5	10.9	--	--
MAR. 23...	38	4	.3	87	7.0	7.5	5	11.7	0	--
APR. 10...	--	--	--	109	7.1	8.0	3	11.4	--	--
MAY 18...	--	--	--	100	7.1	9.5	2	10.8	--	--
JUNE 14...	--	--	--	106	7.9	10.0	2	10.0	--	--
JULY 17...	--	--	--	129	7.3	10.0	1	11.1	0	--
AUG. 07...	--	--	--	105	7.2	10.0	2	11.9	--	--
SEP. 20...	--	--	--	103	7.2	10.0	2	11.2	--	--

## SACRAMENTO RIVER BASIN

11372000 CLEAR CREEK NEAR IGO, CALIF.

LOCATION.--Lat 40°30'48", long 122°31'23", (unsurveyed), Shasta County, temperature recorder at gaging station on left bank, at highway bridge on Redding-Igo road, 1.0 mile northeast of Igo, 8.3 miles southwest of Redding, and 10.4 miles upstream from mouth.

DRAINAGE AREA.--228 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1958 (partial-record station), October 1958 to September 1966.  
Water temperatures: March 1965 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 19.5°C July 15, 16, 18, 19; minimum, 3.0°C Jan. 6-8.

Period of record:

Water temperatures: Maximum, 21.0°C July 1, 1967; minimum, 2.0°C sometime during period Jan. 3 to Feb. 1, 1968.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	12.0	10.5	9.5	9.5	8.5	6.0	4.5	8.0	6.0	10.5	8.5
2	13.5	12.5	11.0	10.0	9.0	8.5	5.5	5.0	8.5	7.0	10.0	7.5
3	13.5	12.5	11.0	10.5	8.5	8.0	5.5	4.0	8.5	7.5	9.0	8.0
4	14.0	13.0	11.0	10.5	8.5	7.5	4.5	3.5	9.5	8.5	9.5	7.0
5	14.0	12.5	11.0	9.0	8.0	6.5	4.0	3.5	10.5	9.5	10.0	7.5
6	13.0	12.0	10.5	9.0	7.5	6.0	4.0	3.0	10.0	9.5	9.5	8.5
7	13.0	12.0	10.5	10.0	7.5	6.5	4.0	3.0	10.5	9.5	10.0	8.0
8	13.0	12.0	10.5	9.5	7.0	5.5	4.0	3.0	10.5	9.5	11.0	8.5
9	13.0	12.5	10.5	9.0	6.5	5.5	4.0	3.5	10.5	10.0	11.5	9.0
10	12.5	12.5	10.0	9.5	6.5	5.0	5.0	4.0	10.0	9.5	10.0	8.5
11	12.5	12.0	10.0	9.5	6.5	5.0	6.5	5.0	10.5	9.5	9.5	7.5
12	12.5	12.0	10.0	9.0	6.5	5.5	7.5	6.5	9.5	9.5	9.0	7.5
13	12.5	12.0	10.0	9.5	6.0	5.0	9.0	7.5	10.0	9.0	9.0	7.5
14	12.5	11.5	10.0	9.5	6.0	5.0	8.5	7.5	10.0	9.5	9.5	7.0
15	12.5	11.5	10.0	10.0	6.5	5.5	9.0	8.0	10.0	8.5	10.5	7.0
16	13.0	12.0	10.0	9.5	6.5	6.0	9.5	9.0	10.5	8.5	10.0	8.5
17	13.0	12.5	9.5	8.5	6.0	5.5	9.0	8.5	10.5	9.0	9.5	7.5
18	12.5	12.0	10.0	9.5	7.0	6.0	9.5	8.5	9.5	7.5	9.5	6.5
19	13.0	12.0	10.0	9.5	7.5	7.0	8.5	7.5	9.5	7.0	8.5	8.0
20	13.0	12.5	10.0	8.5	8.0	7.5	8.0	6.5	9.5	7.5	9.0	7.5
21	12.5	12.0	10.0	9.5	8.5	7.5	8.0	7.0	9.5	8.0	9.0	7.0
22	12.5	12.0	10.0	9.0	8.5	8.0	7.5	6.0	9.5	8.5	10.0	7.0
23	12.5	11.5	9.5	8.5	9.0	8.0	7.0	5.5	9.5	8.0	10.5	7.5
24	12.0	11.0	9.5	8.0	8.5	7.0	7.0	6.5	9.5	9.0	11.0	7.5
25	11.0	10.5	10.0	8.5	7.5	6.5	8.0	7.0	9.5	9.5	11.0	8.5
26	11.0	10.5	10.5	9.0	7.0	6.5	7.5	5.5	10.0	9.5	11.0	8.0
27	11.0	10.0	10.5	8.5	7.0	6.5	6.5	5.0	10.0	9.5	11.0	8.0
28	10.5	9.5	9.5	8.5	7.0	5.0	6.5	5.0	10.5	9.0	9.5	7.0
29	9.5	9.0	9.5	8.5	6.0	4.5	6.5	6.0	---	---	9.5	7.0
30	9.5	9.0	9.5	8.0	6.5	5.0	7.5	6.5	---	---	9.0	8.5
31	9.5	9.0	---	---	6.5	5.0	7.5	6.5	---	---	9.5	7.0
MONTH	14.0	9.0	11.0	8.0	9.5	4.5	9.5	3.0	10.5	6.0	11.5	6.5

APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	7.0	14.0	11.5	16.0	13.0	17.0	16.0	18.5	17.0	16.0	14.5
2	10.5	7.5	14.0	12.0	16.0	14.5	17.5	16.0	17.5	16.5	15.0	14.0
3	11.0	8.0	14.0	12.5	16.0	15.0	18.0	16.5	17.5	16.5	15.0	14.0
4	12.0	8.5	13.5	12.0	16.0	15.0	18.5	17.0	17.5	16.5	15.5	14.5
5	12.5	9.5	14.0	11.5	16.0	15.0	18.5	17.0	18.0	17.0	16.5	15.5
6	12.5	10.0	14.5	12.5	17.0	15.5	18.0	17.0	18.5	17.0	16.0	15.0
7	12.5	9.5	14.5	12.5	17.0	15.5	18.0	17.0	18.0	16.5	16.0	15.0
8	12.0	9.0	14.5	12.0	17.5	16.5	18.0	16.5	17.5	16.5	15.5	14.5
9	12.5	10.0	14.5	12.5	17.0	16.0	18.5	17.0	17.5	16.5	16.0	14.5
10	13.0	10.5	14.5	12.5	16.5	14.5	18.5	17.5	17.5	16.5	16.0	15.0
11	13.0	10.5	15.0	13.0	16.5	15.0	19.0	17.5	18.0	17.0	16.0	15.5
12	13.0	11.0	15.5	13.0	16.5	16.0	19.0	18.0	18.0	16.5	16.0	15.5
13	13.0	11.0	16.5	14.0	16.0	14.5	19.0	17.5	17.5	16.5	16.0	15.5
14	12.5	10.0	16.5	15.0	16.0	12.5	18.5	17.5	17.0	16.0	15.5	14.5
15	12.5	11.0	16.5	14.5	16.0	13.5	19.5	17.5	17.0	16.0	15.0	14.0
16	12.0	10.5	17.0	15.0	16.0	14.0	19.5	18.5	17.0	16.0	15.0	14.5
17	12.5	9.5	17.0	15.5	15.5	12.5	19.0	18.0	16.5	15.5	15.5	14.5
18	11.0	9.0	17.0	15.5	15.5	14.5	19.5	18.0	17.0	15.5	15.5	14.5
19	11.5	9.0	17.0	15.0	16.5	15.5	19.5	18.0	16.5	15.5	15.0	14.0
20	11.5	9.0	16.5	15.0	17.0	16.0	19.0	17.5	16.5	15.5	15.5	14.0
21	12.5	10.0	16.0	14.0	17.0	16.0	18.0	16.5	16.0	15.0	15.0	14.0
22	13.0	10.5	16.5	15.0	17.5	16.0	18.0	16.5	16.0	15.0	15.0	13.5
23	13.0	11.0	16.5	15.5	17.0	15.0	17.5	16.5	15.5	14.5	15.0	13.5
24	13.5	11.0	16.0	14.0	16.5	15.0	18.0	17.0	15.0	14.5	15.0	13.5
25	14.0	11.0	15.5	13.0	17.5	16.0	18.5	17.0	16.0	14.5	14.5	13.0
26	14.5	11.5	15.5	13.5	18.5	17.0	18.5	17.0	16.0	15.5	14.5	13.5
27	14.5	12.0	16.0	14.0	18.5	17.5	18.0	17.0	16.5	15.0	14.5	13.5
28	14.0	12.0	16.5	15.0	18.5	17.5	18.5	17.5	16.5	15.0	14.5	13.5
29	14.0	11.5	16.0	15.0	19.0	17.5	18.5	17.5	16.0	15.5	15.0	14.0
30	13.5	11.5	16.0	13.5	18.0	17.0	18.5	17.5	16.5	15.5	14.5	13.5
31	---	---	14.5	14.0	---	---	18.5	17.5	16.5	15.5	---	---
MONTH	14.5	7.0	17.0	11.5	19.0	12.5	19.5	16.0	18.5	14.5	16.5	13.0



## 11374000 COW CREEK NEAR MILLVILLE, CALIF.

LOCATION.--Lat 40°33'18", long 122°13'48", in NE1/4SW1/4 sec.8, T.31 N., R.3 W., Shasta County, temperature recorder on right bank 35 ft downstream from bridge on State Highway 44, 400 ft downstream from confluence of Little Cow and Oak Run Creeks, 2.6 miles upstream from gaging station, 3.0 miles west of Millville, and 5.5 miles upstream from mouth. Prior to Sept. 14, 1973, at gaging station 2.6 miles downstream.

DRAINAGE AREA.--425 sq mi (at gaging station).

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1966.

Water temperatures: October 1965 to September 1971, October 1972 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 33.0°C June 27; minimum, 0.5°C Dec. 13.

Period of record:

Water temperatures: Maximum (1966-67, 1968-71, 1972-73), 33.0°C June 27, 1973; minimum, freezing point

Dec. 14, 15, 1967, Jan. 10, 11, 1968.

REMARKS.--Recorder malfunction July 9 to Aug. 13.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	18.5	10.5	9.5	8.5	8.0	6.0	3.5	8.0	5.0	11.5	9.5
2	20.5	17.5	11.5	9.0	8.0	7.5	6.0	4.0	8.0	6.0	10.0	6.5
3	20.5	17.0	12.0	11.0	7.5	5.5	5.5	3.5	8.0	7.0	9.5	7.5
4	22.0	19.5	13.5	12.0	6.0	5.0	5.0	3.0	8.5	8.0	9.5	5.5
5	21.5	19.0	13.0	8.5	5.0	2.5	4.0	2.0	10.0	8.0	10.0	6.5
6	20.0	17.0	11.5	9.5	3.0	2.0	3.5	1.5	10.0	9.0	9.5	8.5
7	20.0	17.0	11.0	10.5	4.5	3.0	3.5	1.5	10.5	9.0	10.0	6.5
8	19.5	18.5	11.5	9.0	4.0	2.0	3.5	2.0	10.0	8.5	12.0	8.0
9	19.0	18.5	10.5	9.0	2.5	2.0	3.5	2.0	10.0	9.0	12.5	9.5
10	19.0	17.5	9.5	9.0	3.0	2.0	5.5	3.5	10.5	9.0	12.0	10.0
11	17.5	17.0	10.5	9.0	3.0	2.0	6.5	5.5	11.0	8.5	11.0	7.5
12	17.5	15.0	10.0	8.0	2.5	1.5	8.0	6.5	10.0	9.0	10.5	8.0
13	17.0	15.0	9.5	9.0	2.5	0.5	9.5	8.0	10.5	8.5	10.0	6.0
14	17.0	15.5	10.5	9.5	2.0	1.5	9.0	7.0	10.0	9.5	10.5	6.0
15	16.5	15.0	10.5	10.0	2.0	1.5	8.5	8.0	10.5	7.5	11.0	6.0
16	17.0	14.5	11.0	9.5	2.0	1.5	9.0	8.0	10.5	7.0	11.5	9.0
17	17.5	14.5	10.5	7.5	3.5	3.5	8.0	7.5	11.0	8.0	11.5	8.5
18	17.0	14.5	9.5	9.0	5.0	3.5	9.0	7.5	10.5	7.0	11.5	6.5
19	17.0	14.5	10.0	9.0	6.5	5.0	8.0	5.0	10.0	5.5	11.0	9.5
20	17.5	15.5	10.0	8.0	8.0	6.5	7.0	4.5	10.0	6.0	10.0	8.5
21	17.5	15.5	9.5	8.5	8.5	8.0	7.0	5.0	10.5	6.5	9.5	8.5
22	17.5	16.0	9.5	7.5	9.5	8.0	6.5	3.5	10.5	7.0	12.0	6.0
23	17.5	15.0	9.0	7.0	9.5	9.0	6.0	3.5	10.5	7.5	13.0	8.5
24	17.5	14.5	8.5	6.0	9.0	7.0	6.0	5.0	10.5	9.5	13.5	9.0
25	14.5	12.5	8.5	6.5	8.0	6.0	6.5	5.5	10.5	9.0	14.5	10.5
26	14.5	12.5	9.0	7.5	8.0	7.0	6.0	3.0	10.5	9.5	14.5	10.0
27	14.0	11.5	9.0	7.5	7.0	6.0	5.5	3.0	10.5	9.5	13.5	10.5
28	13.5	11.0	9.0	7.5	6.0	3.0	6.5	3.5	11.0	8.5	13.0	9.5
29	11.5	9.5	9.0	7.5	5.0	3.0	6.5	5.5	---	---	12.5	9.0
30	10.0	8.0	9.0	7.5	5.0	3.0	8.0	6.0	---	---	11.5	10.0
31	10.5	8.0	---	---	6.0	3.0	8.0	5.5	---	---	13.0	9.0
MONTH	22.0	8.0	13.5	6.0	9.5	0.5	9.5	1.5	11.0	5.0	14.5	5.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	8.5	18.0	12.5	22.0	17.5	30.0	20.5	---	---	28.0	18.5
2	13.0	8.5	17.5	13.5	22.5	19.0	30.0	21.0	---	---	28.0	17.0
3	14.0	9.0	17.5	14.0	22.5	20.0	29.5	21.0	---	---	28.0	17.0
4	15.5	9.5	17.5	14.0	24.0	19.5	30.5	21.5	---	---	28.0	18.5
5	16.5	11.0	18.0	12.5	24.5	20.5	31.0	22.0	---	---	27.0	19.0
6	17.0	12.0	18.5	14.5	26.0	21.5	31.0	21.5	---	---	28.0	18.5
7	17.0	12.0	18.5	14.5	26.0	23.0	31.0	21.5	---	---	28.5	19.0
8	16.0	11.0	20.0	15.0	26.0	23.0	31.5	21.5	---	---	27.5	18.0
9	17.0	12.5	19.5	15.0	26.5	23.0	---	---	---	---	28.5	19.0
10	18.0	12.5	20.5	15.0	26.0	23.0	---	---	---	---	27.5	19.5
11	17.5	12.5	21.0	15.5	26.0	23.0	---	---	---	---	27.5	19.5
12	17.5	13.5	22.0	16.0	26.0	23.5	---	---	---	---	27.5	20.0
13	16.5	13.5	23.0	17.5	25.5	23.0	---	---	---	---	27.0	20.5
14	16.0	11.5	23.0	18.5	24.5	21.0	---	---	30.0	19.0	25.5	21.0
15	17.0	13.5	23.0	18.5	24.5	21.5	---	---	30.0	20.0	24.5	19.0
16	16.0	13.5	23.5	19.0	24.5	22.0	---	---	30.0	19.5	24.0	19.0
17	15.0	11.5	24.5	19.5	24.5	20.5	---	---	29.0	18.5	24.5	19.0
18	14.5	10.5	24.0	20.0	24.5	21.5	---	---	29.0	20.0	23.0	21.0
19	14.5	10.0	23.5	19.5	26.5	22.5	---	---	28.5	18.0	22.0	19.5
20	15.0	10.0	22.5	19.0	27.5	24.0	---	---	28.5	19.0	22.0	18.5
21	16.5	11.0	22.5	18.0	29.0	25.0	---	---	28.0	18.5	22.5	17.5
22	17.0	12.0	23.0	19.0	29.0	25.0	---	---	27.5	17.5	21.0	20.5
23	18.0	13.0	22.5	19.5	27.0	24.5	---	---	27.0	18.0	20.5	20.5
24	18.5	14.0	21.5	18.5	27.5	24.0	---	---	25.0	17.5	20.5	20.5
25	19.5	13.5	19.0	15.0	30.0	25.5	---	---	27.5	18.5	21.0	16.0
26	20.0	14.0	20.0	16.0	32.5	26.5	---	---	28.5	17.5	22.0	18.0
27	20.0	15.0	21.5	16.0	33.0	27.0	---	---	28.0	18.5	23.0	16.5
28	20.0	15.0	23.0	18.0	31.5	27.0	---	---	29.5	19.0	23.0	17.0
29	19.0	14.5	24.0	19.5	30.0	23.0	---	---	29.0	20.0	23.0	17.5
30	18.0	13.0	23.5	21.5	30.0	21.5	---	---	28.5	20.5	22.0	18.0
31	---	---	22.5	20.0	---	---	---	---	29.0	20.5	---	---
MONTH	20.0	8.5	24.5	12.5	33.0	17.5	---	---	---	---	28.5	16.0

## SACRAMENTO RIVER BASIN

11375810 COTTONWOOD CREEK NEAR OLINDA, CALIF.

LOCATION.--Lat 40°23'06", long 122°28'31", in SE¼NW¼ sec.7, T.29 N., R.5 W., Shasta County, temperature recorder at gaging station on left bank, 1.0 mile downstream from Dutch Gulch, and 5.5 miles southwest of Olinda.

DRAINAGE AREA.--395 sq mi.

PERIOD OF RECORD.--Water temperatures: February to September 1973.

EXTREMES.--February to September 1973:

Water temperatures: Maximum, 29.5°C June 27, 28; minimum, 4.0°C Mar. 6, 22.

## TEMPERATURE (°C) OF WATER, FEBRUARY TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	11.0	7.5
2	---	---	---	---	---	---	---	---	---	---	10.5	6.0
3	---	---	---	---	---	---	---	---	---	---	8.0	6.0
4	---	---	---	---	---	---	---	---	---	---	9.0	4.0
5	---	---	---	---	---	---	---	---	---	---	10.0	5.0
6	---	---	---	---	---	---	---	---	---	---	9.0	6.5
7	---	---	---	---	---	---	---	---	---	---	8.0	4.0
8	---	---	---	---	---	---	---	---	---	---	11.5	6.0
9	---	---	---	---	---	---	---	---	---	---	12.0	7.0
10	---	---	---	---	---	---	---	---	---	---	10.5	7.5
11	---	---	---	---	---	---	---	---	---	---	10.5	6.0
12	---	---	---	---	---	---	---	---	---	---	10.0	6.5
13	---	---	---	---	---	---	---	---	---	---	10.0	7.5
14	---	---	---	---	---	---	---	---	---	---	10.5	6.5
15	---	---	---	---	---	---	---	---	---	---	11.5	7.0
16	---	---	---	---	---	---	---	---	---	---	11.5	8.5
17	---	---	---	---	---	---	---	---	---	---	11.0	8.5
18	---	---	---	---	---	---	---	---	---	---	10.5	6.0
19	---	---	---	---	---	---	---	---	---	---	10.0	7.0
20	---	---	---	---	---	---	---	---	---	---	8.5	5.5
21	---	---	---	---	---	---	---	---	---	---	8.0	6.0
22	---	---	---	---	---	---	---	---	9.5	6.5	11.5	4.0
23	---	---	---	---	---	---	---	---	9.5	5.5	12.0	7.5
24	---	---	---	---	---	---	---	---	8.5	6.5	12.5	8.0
25	---	---	---	---	---	---	---	---	9.5	7.5	13.0	8.0
26	---	---	---	---	---	---	---	---	8.0	6.5	13.5	8.5
27	---	---	---	---	---	---	---	---	6.5	5.5	12.5	10.0
28	---	---	---	---	---	---	---	---	9.0	5.0	12.0	8.0
29	---	---	---	---	---	---	---	---	---	---	11.0	7.0
30	---	---	---	---	---	---	---	---	---	---	10.5	7.5
31	---	---	---	---	---	---	---	---	---	---	11.5	6.0
MONTH	---	---	---	---	---	---	---	---	---	---	13.5	4.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	7.0	18.5	12.0	25.0	17.5	27.5	22.5	29.0	25.5	22.5	21.0
2	12.5	7.0	18.5	13.0	25.5	19.5	27.5	22.0	28.5	24.5	22.5	20.5
3	13.0	8.0	19.0	14.5	25.5	20.5	28.0	22.0	28.0	24.0	23.0	20.0
4	14.5	8.5	17.5	14.0	26.5	20.0	28.5	24.0	28.0	24.5	23.0	20.5
5	15.5	10.0	19.5	12.5	27.5	20.5	28.5	23.5	27.5	24.0	23.0	20.5
6	16.0	10.0	19.5	14.0	28.5	22.0	28.0	23.5	27.0	24.5	23.0	19.0
7	15.0	11.0	19.5	15.0	28.5	22.5	28.0	23.0	27.0	24.0	22.5	21.0
8	15.0	9.5	20.0	14.5	29.0	23.0	28.5	23.5	27.0	23.5	22.0	20.0
9	15.0	10.0	20.0	14.5	28.0	22.5	28.5	24.0	26.5	23.5	22.5	21.0
10	17.0	11.0	21.0	15.0	26.0	22.0	29.0	25.0	26.5	23.0	22.5	21.0
11	16.0	11.0	21.5	14.5	27.0	21.5	28.5	25.0	27.0	24.5	23.0	19.5
12	16.0	10.5	23.0	16.0	26.5	22.5	28.5	24.5	27.0	23.5	23.0	20.0
13	14.5	11.0	24.0	18.5	24.5	22.0	28.5	24.5	26.5	23.0	23.0	20.5
14	15.0	8.5	24.5	20.0	24.5	18.5	29.0	25.0	26.5	23.5	22.5	19.0
15	16.0	12.0	25.0	19.5	24.0	19.0	29.0	25.0	26.5	23.5	22.0	18.0
16	14.5	12.0	25.0	20.0	23.5	20.0	29.0	25.0	26.0	23.0	22.0	19.0
17	15.0	10.0	25.5	20.5	23.5	17.5	28.5	25.5	25.5	23.0	21.5	18.5
18	14.0	9.0	25.5	20.5	25.0	19.0	29.0	25.0	25.0	22.5	21.5	19.0
19	14.5	9.0	24.0	20.0	27.0	20.5	28.5	24.5	25.0	22.0	21.5	19.5
20	15.5	9.5	23.5	19.0	28.0	22.0	27.5	23.5	25.0	23.0	20.5	17.0
21	16.5	11.0	23.5	17.0	27.5	22.5	27.5	22.5	24.5	22.0	20.5	17.0
22	17.0	11.5	24.5	19.5	27.0	23.0	27.5	23.5	24.0	22.0	20.5	19.0
23	18.5	13.0	23.0	19.0	25.5	22.5	27.0	23.0	23.0	21.5	19.5	17.0
24	19.0	14.0	21.0	17.5	27.0	21.0	27.5	22.5	22.5	20.5	19.5	19.0
25	20.0	14.0	21.0	15.0	28.0	23.0	28.0	24.5	22.5	20.5	19.5	17.0
26	21.0	14.5	21.5	16.0	29.0	23.5	29.0	25.0	23.0	20.5	19.5	18.5
27	20.0	14.5	24.0	16.0	29.5	24.5	29.0	25.5	23.0	21.0	20.0	17.5
28	20.5	15.0	26.0	20.0	29.5	25.0	29.0	26.0	23.5	21.0	20.0	18.0
29	18.5	14.0	26.5	21.0	28.5	25.0	29.0	25.5	23.5	21.5	20.0	17.5
30	18.5	12.5	24.5	22.5	27.5	22.5	29.0	26.0	23.5	22.0	20.0	18.5
31	---	---	24.0	21.5	---	---	29.0	26.0	23.5	21.5	---	---
MONTH	21.0	7.0	26.5	12.0	29.5	17.5	29.0	22.0	29.0	20.5	23.0	17.0

## SACRAMENTO RIVER BASIN

337

11376000 COTTONWOOD CREEK NEAR COTTONWOOD, CALIF.

LOCATION.--Lat 40°23'14", long 122°14'15", in NE1/4 sec.7, T.29 N., R.3 W., Shasta County, at gaging station on left bank, 2.2 miles east of Cottonwood, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--927 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1973. Water temperatures: October 1962 to September 1967.

Sediment records: Water years 1957-62 (partial-record station), October 1962 to September 1967.

REMARKS.--Records furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA, MG) (MG/L)
OCT.								
16...	0830	590	18	116	0	95	32	122
NOV.								
24...	1055	445	--	--	--	--	--	--
DEC.								
13...	1310	194	14	145	0	119	18	136
JAN.								
05...	1045	653	--	--	--	--	--	--
FEB.								
02...	0935	1340	--	--	--	--	--	--
MAR.								
23...	0935	2000	--	--	--	--	--	--
APR.								
10...	0945	1350	--	--	--	--	--	--
MAY								
18...	0830	650	--	--	--	--	--	--
JUNE								
15...	0815	225	7.4	130	0	107	6.2	110
JULY								
17...	0910	93	--	--	--	--	--	--
AUG.								
07...	0835	80	--	--	--	--	--	--
SEP.								
20...	0845	92	6.1	91	0	75	3.0	70

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT.								
16...	27	.7	327	7.4	14.0	25	9.1	100
NOV.								
24...	--	--	304	7.4	8.5	5	11.0	--
DEC.								
13...	17	.5	331	7.4	2.5	1	13.4	100
JAN.								
05...	--	--	290	7.4	2.0	2	12.8	--
FEB.								
02...	--	--	268	7.4	6.0	10	11.5	--
MAR.								
23...	--	--	251	7.8	8.0	25	10.3	--
APR.								
10...	--	--	237	7.4	13.0	7	9.7	--
MAY								
18...	--	--	179	7.4	21.0	8	9.0	--
JUNE								
15...	3	.3	242	7.4	18.0	1	9.0	0
JULY								
17...	--	--	226	7.2	23.0	2	9.0	--
AUG.								
07...	--	--	200	7.1	20.0	1	8.2	--
SEP.								
20...	0	.3	166	7.1	--	1	9.5	1

## SACRAMENTO RIVER BASIN

11376550 BATTLE CREEK BELOW COLEMAN FISH HATCHERY, NEAR COTTONWOOD, CALIF.

LOCATION.--Lat 40°23'54", long 122°08'43", in SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.1, T.29 N., R.3 W., Shasta County, temperature recorder at Coleman Fish Hatchery, 300 ft upstream from gaging station, 3.7 miles downstream from Spring Branch, 5.7 miles upstream from mouth, and 7.0 miles east of Cottonwood.

DRAINAGE AREA.--357 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1966.

Water temperatures: December 1965 to September 1973.

Sediment records: Water years 1962-70 (partial-record station).

EXTREMES, 1972-73:

Water temperatures: Maximum, 20.0°C June 27, 28; minimum, 3.0°C Dec. 8, 9.

Period of record:

Water temperatures: Maximum, 23.0°C July 20, 1971; minimum, 2.0°C Dec. 23, 24, 1968.

REMARKS.--Temperature record furnished by U.S. Fish and Wildlife Service. No record Oct. 28-30, Apr. 24-26, July 3, 4, Sept. 8-11.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	13.0	10.0	9.5	8.5	8.0	6.0	5.0	8.0	6.5	9.5	8.5
2	14.5	12.0	10.5	9.5	8.5	7.0	6.5	6.0	8.5	7.0	9.0	6.5
3	14.5	13.0	11.0	10.0	7.0	6.5	6.5	5.5	8.5	8.0	9.0	6.5
4	14.5	13.5	11.5	10.5	6.5	6.0	5.5	5.0	8.0	7.0	8.5	6.5
5	14.0	13.0	10.5	9.5	6.0	5.0	5.5	5.0	9.0	8.0	9.0	7.0
6	14.0	12.0	10.0	9.0	5.5	5.0	5.5	5.0	9.0	8.5	9.0	8.0
7	14.0	12.0	10.0	9.0	5.5	4.5	5.0	4.5	9.0	8.5	9.0	7.0
8	14.0	13.0	9.5	8.5	4.5	3.0	5.0	4.5	9.0	8.5	10.5	8.5
9	13.0	13.0	9.0	8.5	3.5	3.0	5.0	4.0	9.5	9.0	10.5	9.0
10	13.0	12.0	9.5	9.0	4.0	3.5	5.5	4.0	9.0	8.0	10.5	9.0
11	12.0	11.5	9.5	9.0	4.5	3.5	6.0	5.5	9.0	8.0	9.0	7.0
12	12.0	11.0	9.5	8.0	5.0	4.5	8.0	6.0	8.5	8.0	8.5	7.0
13	12.0	11.0	9.5	9.0	5.0	4.0	8.0	7.0	9.0	8.0	9.0	7.0
14	12.0	11.5	9.5	9.0	5.0	4.5	8.0	6.5	9.0	8.5	9.5	7.0
15	12.0	11.0	9.5	9.0	6.0	5.0	8.0	7.0	9.5	7.0	10.5	8.0
16	11.5	11.0	9.5	8.5	6.5	6.0	9.0	8.0	9.5	8.0	10.0	9.0
17	13.0	11.5	8.5	7.0	6.0	4.0	8.0	7.0	9.5	8.5	9.5	8.5
18	12.0	10.5	8.5	8.0	6.0	5.0	8.0	7.0	9.0	7.0	9.5	7.0
19	12.0	10.5	9.0	8.0	7.0	6.0	7.0	6.0	9.0	7.0	9.5	8.5
20	12.0	11.0	8.5	8.0	8.5	7.0	6.5	5.0	9.5	8.0	9.0	8.5
21	12.0	11.0	8.5	8.0	9.0	8.5	6.5	5.5	9.5	8.0	8.5	7.0
22	12.0	11.0	8.5	8.0	9.5	8.5	6.5	5.0	9.5	8.5	10.0	6.0
23	12.0	11.0	8.0	6.5	8.5	8.0	6.5	5.5	9.5	8.5	10.5	8.5
24	12.0	11.0	8.0	7.0	8.5	7.0	6.5	6.0	10.0	9.0	11.0	9.0
25	11.5	10.5	8.5	7.0	7.0	6.5	7.0	6.0	9.5	9.0	11.0	9.5
26	11.0	10.0	9.5	8.0	8.0	6.5	6.5	5.0	9.5	9.0	11.5	9.5
27	10.5	10.0	9.0	8.5	8.0	6.5	6.5	5.5	9.5	9.0	11.5	10.0
28	---	---	9.0	8.0	6.5	6.0	7.0	5.5	9.5	8.0	10.5	9.0
29	---	---	9.0	8.0	6.0	5.5	6.5	6.0	---	---	10.0	8.5
30	---	---	9.0	8.0	6.0	5.5	8.0	6.5	---	---	9.5	9.0
31	9.5	8.0	---	---	6.0	5.5	8.5	7.0	---	---	11.0	9.0
MONTH	14.5	8.0	11.5	6.5	9.5	3.0	9.0	4.0	10.0	6.5	11.5	6.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	8.5	13.0	10.5	16.0	13.5	18.0	15.5	19.0	16.5	16.0	14.0
2	10.5	8.0	14.0	11.0	16.0	14.0	18.5	15.5	18.5	16.5	16.0	14.5
3	11.5	9.0	13.5	11.5	16.5	14.0	---	---	18.5	16.0	16.0	14.0
4	13.0	10.0	13.5	11.5	16.5	14.0	---	---	18.5	16.0	15.5	14.0
5	13.0	11.0	13.5	10.0	17.0	15.0	19.0	16.5	18.5	16.0	15.5	13.5
6	13.5	11.0	14.0	11.5	18.0	15.5	19.0	16.5	18.5	16.0	16.0	14.0
7	12.0	11.0	14.0	11.5	18.5	16.0	18.5	16.0	18.0	15.5	16.0	14.5
8	12.0	10.0	15.0	12.0	19.0	16.5	19.0	16.0	17.0	15.5	---	---
9	12.0	11.0	14.5	11.5	19.0	16.5	18.5	16.5	18.0	15.5	---	---
10	13.5	11.0	15.0	11.5	18.0	16.0	19.5	17.0	18.0	15.5	---	---
11	13.5	11.0	15.5	12.0	18.0	15.5	19.0	16.5	18.0	15.5	---	---
12	13.0	11.5	15.5	13.0	17.0	15.5	18.5	16.5	18.0	16.0	16.0	14.5
13	12.0	11.0	16.0	14.0	17.0	15.5	19.0	16.5	17.0	15.0	16.0	14.5
14	12.0	9.5	15.5	14.0	16.0	14.0	19.5	17.0	17.0	15.0	16.0	14.0
15	12.0	10.5	15.5	14.0	15.5	14.0	19.0	17.0	17.0	15.5	15.0	13.5
16	11.0	10.0	15.5	14.5	15.5	14.0	19.0	17.0	17.0	15.0	14.5	13.5
17	12.0	10.0	16.0	14.5	15.0	13.0	19.0	17.0	16.5	14.5	14.5	13.5
18	10.5	9.0	16.0	14.5	15.5	13.0	19.5	17.0	16.5	14.5	15.0	13.5
19	11.0	9.0	15.5	15.0	18.0	14.5	19.0	17.0	16.0	14.5	15.0	13.5
20	11.5	9.0	15.0	14.0	18.0	16.0	18.5	16.0	16.0	14.0	15.0	13.5
21	12.0	9.5	15.0	13.0	17.0	15.5	18.0	15.5	16.0	14.5	14.5	13.0
22	13.5	10.5	15.0	13.5	16.5	14.5	17.0	15.5	15.5	14.0	14.0	13.0
23	13.5	11.0	15.0	14.0	17.0	14.0	17.0	15.0	15.0	13.5	14.0	12.0
24	---	---	15.0	13.0	18.5	15.5	18.0	15.0	14.5	13.5	14.0	13.0
25	---	---	14.0	12.0	19.5	16.5	18.5	16.0	14.5	13.5	13.5	12.0
26	---	---	14.0	11.5	19.5	17.0	19.0	16.5	15.5	12.0	14.0	12.0
27	14.5	13.0	15.0	12.0	20.0	17.0	19.0	17.0	15.5	14.0	14.0	12.0
28	14.0	13.0	16.5	14.0	20.0	18.0	19.0	17.0	16.0	14.0	14.5	13.0
29	13.5	12.0	17.0	15.0	19.0	16.5	19.0	17.0	16.0	14.0	14.5	13.0
30	13.0	10.5	17.0	15.5	18.0	15.5	19.0	17.0	15.5	13.5	14.5	13.0
31	---	---	16.0	14.5	---	---	19.0	16.5	15.5	13.5	---	---
MONTH	14.5	8.0	17.0	10.0	20.0	13.0	19.5	15.0	19.0	12.0	16.0	12.0

## SACRAMENTO RIVER BASIN

339

11377100 SACRAMENTO RIVER ABOVE BEND BRIDGE, NEAR RED BLUFF, CALIF.

LOCATION.--Lat 40°17'19", long 122°11'08", in NW¼NE¼ sec. 15, T.28 N., R.3 W., Tehama County, temperature recorder at gaging station on left bank, 2.7 miles upstream from Bend Bridge, and 8.1 miles northeast of Red Bluff.

DRAINAGE AREA.--8,900 sq mi, excluding Goose Lake basin.

PERIOD OF RECORD.--Water temperatures: March 1970 to September 1973.

## EXTREMES, 1972-73:

Water temperatures: Maximum, 15.5°C May 14, 15, 17; minimum, 4.0°C Dec. 17, Jan. 9, 10.

## Period of record:

Water temperatures: Maximum, 15.5°C on several days in 1970 and 1973; minimum, 4.0°C Dec. 17, 1972, Jan. 9, 10, 1973.

REMARKS.--No temperature record Feb. 16-28.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	13.5	11.5	11.0	11.0	10.5	8.0	7.5	7.5	7.0	9.5	8.0
2	14.5	13.0	11.5	11.0	10.5	10.0	8.0	7.5	7.5	7.0	9.0	8.0
3	14.5	13.5	12.0	11.5	10.0	9.5	8.0	7.5	7.5	7.5	8.5	7.5
4	14.5	13.5	13.0	11.5	9.5	9.0	8.0	7.5	8.0	7.5	8.5	7.0
5	14.0	13.5	12.5	11.0	9.0	8.5	7.5	7.0	8.5	8.0	8.5	7.5
6	14.0	12.5	11.5	11.0	8.5	8.0	7.5	7.0	8.5	8.0	8.5	8.0
7	14.0	13.0	11.5	11.0	9.0	8.5	7.5	7.0	8.5	8.5	8.5	7.5
8	14.0	13.0	11.0	10.5	8.5	7.5	7.5	6.5	8.5	8.0	9.5	8.0
9	13.5	13.0	11.0	10.5	8.0	7.0	7.0	4.0	8.5	8.0	9.5	8.5
10	13.5	12.5	11.0	10.5	8.0	8.0	6.0	4.0	8.5	8.5	9.5	9.0
11	13.0	12.5	10.5	10.5	8.5	8.0	6.0	5.0	8.5	8.0	9.0	8.0
12	13.0	12.0	10.5	10.0	8.5	8.0	7.0	5.5	8.5	8.0	9.0	8.0
13	13.0	12.0	10.5	10.5	8.0	8.0	8.0	7.0	8.5	8.0	9.0	8.0
14	13.0	12.5	10.5	10.0	8.0	8.0	8.0	8.0	8.5	8.0	9.5	8.0
15	13.0	12.5	10.5	10.5	8.0	8.0	8.0	8.0	8.5	8.0	10.0	8.5
16	13.5	12.5	10.5	10.5	8.5	8.0	9.0	8.0	---	---	10.0	9.0
17	14.0	13.0	10.5	9.5	8.0	4.0	9.0	8.0	---	---	10.0	9.0
18	14.0	12.5	10.5	10.0	7.0	5.5	8.5	8.0	---	---	10.0	8.5
19	13.5	12.5	11.0	10.5	8.0	7.0	8.0	7.5	---	---	10.0	9.0
20	13.5	12.5	10.5	10.0	9.0	8.0	8.0	7.5	---	---	9.0	8.0
21	13.5	12.5	10.5	10.0	9.5	9.0	8.0	8.0	---	---	9.0	8.0
22	13.5	12.5	11.0	10.0	9.5	9.0	8.0	7.5	---	---	10.0	7.5
23	13.5	12.5	11.0	10.0	9.0	9.0	8.0	7.5	---	---	10.5	9.5
24	13.5	12.0	11.0	10.5	9.0	8.5	8.0	8.0	---	---	11.0	10.0
25	12.5	11.5	11.5	10.5	8.5	8.0	8.0	7.5	---	---	11.5	10.5
26	12.5	11.5	11.5	10.5	8.5	7.5	7.5	7.0	---	---	11.5	10.5
27	12.5	11.0	11.5	11.0	8.0	8.0	7.5	7.0	---	---	11.5	10.5
28	12.0	11.0	11.5	10.5	8.0	7.5	7.5	7.0	---	---	11.0	9.5
29	11.5	10.5	11.5	10.5	7.5	7.0	7.5	7.0	---	---	10.5	9.5
30	11.0	10.0	11.0	10.5	8.0	7.0	7.5	7.0	---	---	10.0	9.0
31	11.0	10.5	---	---	8.0	7.5	8.0	7.5	---	---	10.5	9.0
MONTH	14.5	10.0	13.0	9.5	11.0	4.0	9.0	4.0	---	---	11.5	7.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.0	13.0	11.0	14.0	11.0	13.5	11.0	12.0	9.5	12.0	10.5
2	10.5	9.0	13.5	11.0	14.0	11.5	13.5	11.0	11.5	10.0	12.0	10.5
3	11.0	9.5	13.0	11.5	14.5	11.5	14.0	11.0	11.5	10.0	12.0	10.5
4	12.0	10.0	13.0	11.0	14.0	11.5	14.0	11.0	11.5	10.0	12.0	10.5
5	12.5	11.0	13.0	10.5	14.5	11.5	14.0	11.5	12.0	10.0	12.5	11.0
6	13.0	11.0	13.5	11.0	14.5	11.5	14.0	11.0	12.0	10.5	12.5	11.0
7	13.0	11.0	13.5	11.0	14.5	11.5	13.5	11.0	12.5	10.5	12.5	11.0
8	12.0	10.5	14.0	11.0	15.0	12.5	13.5	11.0	12.0	10.5	12.5	11.0
9	12.0	11.0	14.0	11.0	15.0	12.0	14.0	11.0	12.0	10.5	12.5	11.0
10	13.5	11.5	14.0	11.5	14.5	12.0	14.0	11.0	12.0	10.5	12.5	11.0
11	13.5	12.0	14.0	11.5	14.0	11.5	13.0	10.5	12.0	10.0	12.5	11.5
12	13.5	11.5	14.5	11.5	14.0	11.5	11.5	9.5	12.5	10.5	12.5	11.5
13	13.0	11.0	15.0	12.0	14.0	11.5	11.5	9.5	12.5	10.5	13.0	11.5
14	12.5	10.5	15.5	13.0	13.5	11.0	11.5	9.5	12.0	10.5	13.0	11.5
15	13.0	11.5	15.5	13.5	13.0	11.0	12.0	10.0	12.0	10.5	12.5	11.5
16	13.0	11.0	15.0	13.0	13.0	11.0	11.5	10.0	12.0	10.5	12.5	11.5
17	12.0	10.5	15.5	13.0	13.0	10.5	12.0	10.0	12.0	10.5	12.5	11.5
18	11.5	10.0	15.0	12.5	13.5	10.5	11.5	10.0	11.5	10.0	13.0	11.5
19	11.5	10.5	15.0	12.5	14.0	11.0	11.5	10.0	11.5	10.0	12.5	11.5
20	12.0	10.0	14.5	12.0	14.0	11.0	12.0	10.0	11.5	10.5	12.5	11.5
21	13.0	11.0	14.5	11.5	14.0	11.0	11.5	10.0	11.5	10.5	12.5	11.0
22	13.5	11.5	14.0	11.5	14.0	11.0	11.5	10.0	11.5	10.5	12.5	11.0
23	14.0	12.0	14.0	11.5	13.0	11.0	11.5	9.5	12.0	10.5	12.5	11.5
24	14.5	12.0	13.5	11.5	13.5	11.0	11.5	9.5	11.5	10.5	12.5	12.0
25	14.5	12.5	13.5	11.5	14.0	11.0	11.5	9.5	11.5	10.5	12.5	11.5
26	14.5	12.5	13.5	11.0	14.5	12.0	11.5	9.5	11.5	10.0	12.5	11.5
27	14.5	12.5	14.0	11.0	14.5	11.5	11.5	10.0	11.5	10.5	12.5	11.5
28	14.5	13.0	15.0	12.0	14.5	11.5	11.5	9.5	11.5	10.5	12.5	11.5
29	14.5	12.0	14.5	12.5	14.5	11.5	11.5	10.0	11.5	10.0	12.5	11.5
30	13.5	11.0	14.5	12.0	14.0	11.0	11.5	10.0	12.0	10.5	13.0	12.0
31	---	---	13.0	11.5	---	---	11.5	10.0	12.0	11.0	---	---
MONTH	14.5	9.0	15.5	10.5	15.0	10.5	14.0	9.5	12.5	9.5	13.0	10.5

## SACRAMENTO RIVER BASIN

11381620 MILL CREEK AT MOUTH, NEAR LOS MOLINOS, CALIF.

LOCATION.--Lat 40°02'34", long 122°05'57", T.25 N., R.2 W., in Rio de Los Molinos Grant, Tehama County, at bridge on U.S. Highway 99, 0.8 mile upstream from confluence with Sacramento River, and 1.5 miles north of Los Molinos.

PERIOD OF RECORD.--Chemical analyses: October 1952 to September 1953 (partial-record station), October 1953 to September 1970, water year 1971 (partial-record station), October 1971 to September 1973.

REMARKS.--Records furnished by California Department of Water Resources. Discharge given for Mill Creek near Los Molinos (sta 11381500), 5.5 miles upstream from mouth.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA+MG) (MG/L)
OCT.								
12...	1200	221	--	--	--	--	--	--
NOV.								
22...	1330	184	--	--	--	--	--	--
DEC.								
11...	1330	111	--	--	--	--	--	--
JAN.								
04...	1330	159	--	--	--	--	--	--
FEB.								
01...	1305	294	--	--	--	--	--	--
MAR.								
21...	1430	311	10	52	0	43	10	41
APR.								
09...	1445	360	--	--	--	--	--	--
MAY								
08...	1225	465	7.4	35	0	29	6.4	30
JUNE								
15...	1310	289	--	--	--	--	--	--
JULY								
16...	1225	146	--	--	--	--	--	--
AUG.								
07...	1130	124	--	--	--	--	--	--
SEP.								
17...	1240	104	--	--	--	--	--	--

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT.								
12...	--	--	214	--	--	20	--	--
NOV.								
22...	--	--	176	7.9	10.0	0	11.8	--
DEC.								
11...	--	--	200	--	--	1	--	--
JAN.								
04...	--	--	166	7.7	4.5	1	13.2	--
FEB.								
01...	--	--	134	--	--	0	--	--
MAR.								
21...	0	.7	133	7.8	7.5	0	11.2	300
APR.								
09...	--	--	126	--	--	2	--	--
MAY								
08...	1	.6	100	7.3	16.0	1	10.0	100
JUNE								
15...	--	--	124	--	--	1	--	--
JULY								
16...	--	--	167	--	25.5	0	11.7	--
AUG.								
07...	--	--	227	--	--	1	--	--
SEP.								
17...	--	--	226	8.2	21.0	1	14.2	--

## 11382000 THOMES CREEK AT PASKENTA, CALIF.

LOCATION.--Lat 39°52'57", long 122°33'03", in SW¼NW¼ sec.4, T.23 N., R.6 W., Tehama County, at gaging station on left bank, 0.2 mile upstream from Digger Creek, and 0.3 mile upstream from highway bridge at Paskenta.

DRAINAGE AREA.--194 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1971, water years 1972-73 (partial-record station).  
Water temperatures: October 1961 to September 1973.  
Sediment records: October 1962 to September 1973 (discontinued).

## EXTREMES.--1972-73:

Water temperatures: Maximum, 34.0°C on several days during July and August; minimum, freezing point on several days during December and January.  
Sediment concentrations: Maximum daily, 3,020 Jan. 16; minimum daily, 1 mg/l on many days.  
Sediment loads: Maximum daily, 45,200 tons Jan. 16; minimum daily, 0.01 ton on several days.

## Period of record:

Water temperatures: Maximum, 35.0°C on several days in 1972; minimum, freezing point on several days during most years.  
Sediment concentrations: Maximum daily, 60,200 mg/l Dec. 22, 1964; minimum daily, no flow Oct. 4, 1964.  
Sediment discharge: Maximum daily, 5,070,000 tons Dec. 22, 1964; minimum daily, 0 tons Oct. 4, 1964, Oct. 8, 1970, and on many days during September 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Temperature recorder malfunction Nov. 9, 10, May 29.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANECUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACCS (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED CRTHC- PHOS- PHORUS (P) (MG/L)
OCT.									
12...	0800	57	15	134	0	110	23	.28	.00
NOV.									
22...	0930	133	6.5	107	0	88	6.4	.08	.02
DEC.									
11...	1010	65	--	--	--	--	--	--	--
JAN.									
04...	0945	197	--	--	--	--	--	--	--
FEB.									
01...	0930	326	4.8	107	0	88	3.2	.10	.02
MAR.									
22...	1015	467	--	--	--	--	--	--	--
APR.									
09...	1050	979	--	--	--	--	--	--	--
MAY									
08...	0830	467	--	--	--	--	--	--	--
JUNE									
15...	0945	75	--	--	--	--	--	--	--
JULY									
16...	0815	17	--	--	--	--	--	--	--
AUG.									
13...	1145	7.3	--	--	--	--	--	--	--
SEP.									
17...	0910	5.7	--	--	--	--	--	--	--

DATE	HARD- NESS (CA+MG) (MG/L)	NOA- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- RID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT.									
12...	163	53	.5	386	8.0	15.0	19	9.4	200
NOV.									
22...	101	13	.3	229	7.8	6.5	5	12.2	100
DEC.									
11...	--	--	--	220	7.8	.0	2	13.6	--
JAN.									
04...	--	--	--	176	7.6	2.0	4	13.0	--
FEB.									
01...	99	11	.2	216	7.7	4.0	8	12.5	0
MAR.									
22...	--	--	--	228	7.8	6.5	15	11.5	--
APR.									
09...	--	--	--	130	7.6	8.5	3	10.8	--
MAY									
08...	--	--	--	129	7.8	10.5	2	10.8	--
JUNE									
15...	--	--	--	243	8.0	17.0	0	9.4	--
JULY									
16...	--	--	--	290	8.2	24.0	0	9.0	--
AUG.									
13...	--	--	--	330	8.3	30.5	1	10.3	--
SEP.									
17...	--	--	--	376	8.2	19.0	0	10.9	--

## SACRAMENTO RIVER BASIN

11382000 THOMES CREEK AT PASKENTA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	14.5	12.5	8.0	7.0	4.5	7.0	2.0	8.5	3.0	12.0	6.5
2	24.5	15.0	16.0	7.0	5.0	4.0	5.5	2.0	7.5	4.0	10.5	4.5
3	25.5	15.5	12.5	10.5	5.5	4.0	6.5	1.0	6.5	5.5	7.0	5.5
4	25.5	16.0	14.0	8.0	7.5	1.5	5.5	0.0	8.0	6.0	8.5	4.0
5	24.5	16.0	13.5	7.0	4.0	0.0	5.0	0.0	8.0	5.0	9.5	4.5
6	23.5	14.5	11.0	6.0	4.0	0.0	5.5	0.0	8.5	7.0	8.5	5.5
7	24.5	15.0	10.0	7.5	5.0	0.0	4.0	0.0	9.0	7.5	8.5	4.5
8	23.5	16.0	12.0	5.5	2.5	0.0	0.5	0.0	10.5	8.0	12.5	6.0
9	20.0	16.5	---	---	1.0	0.0	2.0	0.0	9.0	8.0	13.0	6.5
10	18.5	16.0	---	---	2.0	0.0	3.0	1.5	9.0	7.0	12.0	6.5
11	17.0	15.5	13.0	7.0	1.5	0.0	4.0	2.0	11.0	7.0	11.0	5.0
12	17.0	14.5	10.5	5.5	2.0	0.0	6.5	3.5	8.5	6.5	9.0	4.5
13	20.0	14.0	9.5	8.0	3.0	0.0	8.5	5.5	9.0	7.0	10.5	6.0
14	15.5	13.5	9.5	8.0	2.0	0.0	7.5	5.0	10.5	6.5	10.5	5.0
15	15.5	12.0	10.5	9.0	2.0	0.0	7.0	5.5	11.0	5.0	12.5	5.5
16	14.0	11.0	10.0	8.0	2.5	0.0	8.0	6.0	10.5	5.0	11.0	6.5
17	19.0	11.5	11.5	6.0	5.5	0.0	7.0	5.5	12.0	6.5	11.5	6.0
18	19.0	10.0	9.0	6.5	7.0	5.5	7.5	5.0	10.5	4.5	11.0	3.5
19	19.0	10.5	10.5	6.0	7.5	6.0	7.0	3.5	10.5	4.0	7.0	6.5
20	20.0	11.0	11.0	5.0	9.5	7.0	6.5	3.0	11.5	5.0	9.0	5.5
21	19.5	11.0	9.5	6.0	9.0	8.0	7.5	4.0	11.5	5.5	7.0	5.0
22	19.0	12.0	11.5	5.0	9.0	7.0	7.5	3.0	10.0	5.5	12.5	3.5
23	21.5	11.5	10.0	3.5	7.5	6.0	6.5	2.5	9.0	6.5	13.0	5.0
24	18.0	11.0	10.5	3.5	8.5	5.5	5.0	3.5	9.5	7.5	13.0	5.0
25	19.0	9.5	11.5	4.0	9.0	5.0	6.0	3.5	9.0	7.5	13.5	6.5
26	17.5	9.5	11.5	4.5	7.5	4.5	6.5	2.5	9.5	8.0	14.0	6.5
27	17.5	8.5	10.0	5.0	6.5	5.0	5.5	2.0	9.0	7.5	12.0	6.5
28	15.0	8.0	10.0	4.0	6.5	2.5	7.5	2.0	10.0	7.0	11.0	4.5
29	13.0	6.0	10.5	4.5	5.5	1.5	5.0	3.5	---	---	9.5	3.5
30	11.5	5.0	9.5	3.5	6.0	1.5	6.0	4.5	---	---	7.0	6.0
31	13.5	5.0	---	---	6.5	2.0	8.5	3.5	---	---	11.0	4.5
MONTH	25.5	5.0	16.0	3.5	9.5	0.0	8.5	0.0	12.0	3.0	14.0	3.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	3.0	14.5	6.5	24.5	14.5	30.0	19.0	34.0	22.5	24.0	16.5
2	11.0	3.5	15.0	7.5	25.0	14.0	30.0	18.5	33.5	22.0	27.5	15.0
3	12.5	4.0	15.5	8.5	25.0	14.5	32.0	19.5	34.0	21.5	29.5	16.0
4	14.0	5.0	12.5	8.0	27.0	14.0	33.0	20.5	33.0	21.5	30.0	17.0
5	14.0	6.5	15.5	6.5	27.0	14.5	32.0	19.5	33.0	21.5	27.5	18.0
6	13.5	6.5	16.5	8.5	29.5	16.5	31.0	22.5	32.5	22.0	29.0	17.5
7	12.5	6.5	16.0	9.0	29.5	17.0	31.5	20.0	33.0	21.0	27.0	17.5
8	12.5	5.0	17.0	8.5	29.0	18.0	32.0	21.0	32.5	22.0	23.5	13.0
9	11.5	6.5	17.0	8.5	29.5	17.0	33.0	21.0	32.0	20.5	27.5	15.5
10	14.0	7.0	18.0	9.0	27.5	17.5	34.0	22.0	34.0	25.0	28.0	17.5
11	12.0	6.5	19.0	9.0	28.0	17.0	33.0	22.0	33.5	22.0	29.0	18.0
12	11.5	6.0	20.5	11.0	27.0	17.0	31.0	19.5	33.5	22.5	29.5	18.5
13	8.5	5.0	20.5	12.0	23.0	16.0	31.5	20.5	34.0	20.5	28.0	19.0
14	11.5	4.0	21.0	13.0	24.0	13.0	33.5	22.0	33.5	21.0	28.0	17.0
15	11.0	7.0	20.5	12.5	24.0	12.0	33.0	22.5	33.5	21.5	26.5	16.0
16	9.5	6.5	21.5	13.0	24.5	12.5	33.0	22.5	33.0	20.5	27.0	16.5
17	11.5	4.5	23.0	14.5	24.0	11.0	32.5	22.5	31.5	20.0	26.5	16.0
18	10.5	2.5	22.5	14.0	24.5	12.5	33.5	22.5	32.0	20.0	26.0	17.0
19	11.0	3.5	20.5	13.5	28.0	14.5	32.0	22.0	31.0	24.5	21.0	17.0
20	11.5	4.0	21.5	12.5	30.0	16.5	30.0	20.0	31.0	25.0	22.0	15.5
21	13.0	4.5	22.5	12.5	29.0	18.0	28.0	20.0	30.5	21.5	25.0	14.0
22	14.5	6.0	23.0	14.0	26.5	18.0	31.0	19.0	29.5	18.5	18.0	15.5
23	14.5	6.5	22.0	14.0	25.5	18.0	31.0	19.0	28.5	17.5	22.5	15.0
24	14.5	7.0	17.5	14.0	28.5	16.0	32.0	24.5	26.5	17.5	21.5	14.5
25	15.0	7.0	20.0	12.0	31.0	18.0	32.0	21.0	26.5	17.0	21.5	13.0
26	15.5	7.5	21.0	11.0	32.0	19.5	34.0	22.5	29.0	16.5	23.0	12.5
27	15.5	8.5	23.5	11.5	33.0	20.5	33.5	23.0	28.5	17.5	24.5	13.5
28	14.5	7.5	25.5	14.5	33.0	22.5	34.0	23.5	31.0	18.5	25.5	14.5
29	13.5	7.5	---	---	31.5	21.5	34.0	23.5	31.5	19.0	25.5	15.0
30	13.5	6.0	22.5	18.0	30.0	20.0	34.0	23.5	30.0	19.5	25.0	15.5
31	---	---	22.0	16.0	---	---	34.0	23.5	29.0	19.0	---	---
MONTH	15.5	2.5	25.5	6.5	33.0	11.0	34.0	18.5	34.0	16.5	30.0	12.5



## SACRAMENTO RIVER BASIN

343

11382000 THOMES CREEK AT PASKENTA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	26	1	.07	19	1	.05	175	12	5.7
2	23	1	.06	20	1	.05	169	10	4.6
3	21	1	.06	24	14	.91	166	15	6.7
4	19	1	.05	178	169	83	214	50	29
5	18	1	.05	143	22	8.5	173	19	8.9
6	16	1	.04	101	4	1.1	169	12	5.5
7	16	1	.04	102	13	3.6	157	10	4.2
8	16	1	.04	105	8	2.3	95	9	2.3
9	17	1	.05	93	14	3.5	78	9	1.9
10	22	1	.06	134	68	31	84	15	3.4
11	30	1	.08	228	176	130	76	17	3.5
12	52	2	.28	130	45	16	88	7	1.7
13	42	3	.34	399	335	603	78	13	2.7
14	44	5	.59	462	243	389	78	11	2.3
15	211	1600	1140	758	404	1130	80	5	1.1
16	209	160	104	529	315	545	380	292	677
17	128	45	16	225	53	32	3420	2950	31100
18	94	16	4.1	172	30	14	2220	1430	10600
19	69	6	1.1	160	40	17	2050	1250	7430
20	54	6	.87	140	19	7.2	1410	620	2360
21	44	2	.24	122	12	4.0	1360	800	2940
22	37	2	.20	128	23	7.9	2290	1630	10100
23	32	3	.26	124	20	6.7	1150	550	1710
24	29	2	.16	124	19	6.4	810	282	617
25	26	2	.14	124	20	6.7	509	170	234
26	24	1	.06	173	29	14	375	119	120
27	24	1	.06	239	55	35	355	96	92
28	23	1	.06	202	37	20	338	63	57
29	22	1	.06	202	23	13	286	51	39
30	21	1	.06	186	17	8.5	262	46	33
31	20	1	.05	--	--	--	246	38	25
TOTAL	1429	--	1269.23	5746	--	3139.41	19341	--	68217.5

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	227	26	16	334	21	19	1070	128	370
2	217	19	11	326	22	19	1060	98	280
3	206	13	7.2	330	27	24	986	82	218
4	197	8	4.3	649	189	410	810	61	133
5	184	7	3.5	650	188	330	650	49	86
6	178	7	3.4	882	298	686	594	53	85
7	170	7	3.2	1130	380	1160	509	47	65
8	172	9	4.2	906	195	477	474	50	64
9	186	19	9.5	1130	258	939	448	27	33
10	204	24	13	822	325	721	516	40	56
11	1930	1610	9800	720	174	338	660	68	121
12	3010	1470	13000	670	125	226	554	40	60
13	3180	1610	15500	660	89	159	509	32	44
14	1410	600	2280	680	66	121	430	20	23
15	1340	550	1990	680	85	156	375	18	18
16	4990	3020	45200	650	77	135	412	17	19
17	2370	900	5760	586	80	127	424	18	21
18	2220	949	6450	481	40	52	380	11	11
19	1130	270	824	436	39	46	520	54	124
20	958	224	579	412	30	33	858	104	241
21	846	192	439	418	25	28	610	41	68
22	578	123	192	400	24	26	488	28	37
23	488	84	111	385	37	38	460	21	26
24	509	82	113	1050	410	1340	454	22	27
25	509	73	100	1100	373	1110	516	23	32
26	474	48	61	1240	330	1100	562	31	47
27	442	40	48	1370	277	1020	650	40	70
28	390	31	33	1100	230	683	594	14	22
29	406	32	35	--	--	--	516	19	26
30	390	34	36	--	--	--	578	62	97
31	380	28	29	--	--	--	690	68	127
TOTAL	29891	--	102655.3	20197	--	11523	18357	--	2651

## SACRAMENTO RIVER BASIN

11382000 THOMES CREEK AT PASKENTA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	546	30	44	602	17	28	184	24	12
2	481	28	36	594	14	22	152	11	4.5
3	436	15	18	562	14	21	139	8	3.0
4	442	7	8.4	530	14	20	126	6	2.0
5	554	68	102	454	9	1.1	118	4	1.3
6	834	86	194	442	10	12	112	3	.91
7	930	123	309	442	10	12	105	3	.85
8	834	69	155	430	8	9.3	98	3	.79
9	958	91	235	418	7	7.9	93	3	.75
10	958	82	212	418	8	9.0	88	2	.48
11	1210	77	252	412	8	8.9	82	2	.44
12	1200	171	554	442	9	11	80	1	.22
13	972	77	202	495	17	23	76	1	.21
14	780	43	91	530	18	26	75	1	.20
15	730	29	57	523	15	21	74	1	.20
16	690	25	47	509	17	23	71	1	.19
17	700	27	51	495	13	17	69	1	.19
18	640	17	29	448	10	12	69	1	.19
19	570	16	25	395	8	8.5	64	1	.17
20	530	11	16	342	8	7.4	57	1	.15
21	481	12	16	307	6	5.0	42	1	.11
22	502	15	20	286	6	4.6	40	1	.11
23	594	30	48	276	6	4.5	40	1	.11
24	670	37	67	273	5	3.7	40	1	.11
25	710	50	96	276	6	4.5	39	1	.11
26	790	85	181	225	5	3.0	36	1	.10
27	918	111	275	191	6	3.1	33	1	.09
28	822	84	186	178	4	1.9	31	1	.08
29	780	54	114	172	4	1.9	31	1	.08
30	700	29	55	173	4	1.9	30	1	.08
31	--	--	--	173	4	1.9	--	--	--
TOTAL	21962	--	3695.4	12013	--	346.0	2294	--	29.72

DAY	JULY			AUGUST			SEPTEMBER		
	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	28	1	.08	6.9	2	.04	4.8	2	.03
2	26	1	.07	6.6	2	.04	3.7	1	.01
3	25	1	.07	6.0	2	.03	3.7	1	.01
4	23	1	.06	6.0	2	.03	3.7	2	.02
5	22	1	.06	6.0	2	.03	4.2	4	.05
6	21	1	.06	6.3	2	.03	4.5	2	.02
7	21	1	.06	6.9	1	.02	4.2	3	.03
8	19	1	.05	6.6	1	.02	3.6	2	.02
9	19	1	.05	6.6	1	.02	3.0	2	.02
10	17	1	.05	6.3	2	.03	3.2	2	.02
11	16	1	.04	5.7	2	.03	3.7	2	.02
12	16	1	.04	6.0	2	.03	3.9	2	.02
13	16	1	.04	5.7	2	.03	4.5	2	.02
14	15	1	.04	5.1	2	.03	4.8	3	.04
15	15	1	.04	5.1	2	.03	4.5	2	.02
16	15	2	.08	4.5	2	.02	4.5	2	.02
17	15	2	.08	4.2	2	.02	4.8	2	.03
18	14	2	.08	4.5	2	.02	4.8	1	.01
19	15	2	.08	4.2	1	.01	5.4	1	.01
20	14	2	.08	4.2	1	.01	5.7	2	.03
21	15	2	.08	4.2	1	.01	6.0	3	.05
22	15	2	.08	4.5	1	.01	8.5	3	.07
23	13	2	.07	5.1	2	.03	11	3	.09
24	12	2	.06	5.4	2	.03	12	3	.10
25	10	2	.05	5.4	2	.03	15	2	.08
26	9.4	1	.03	5.1	2	.03	12	2	.06
27	9.0	1	.02	5.7	2	.03	9.8	2	.05
28	9.0	1	.02	5.1	3	.04	8.5	2	.05
29	8.5	1	.02	4.8	3	.04	7.7	2	.04
30	8.1	1	.02	4.8	3	.04	7.3	2	.04
31	7.3	1	.02	4.8	3	.04	--	--	--
TOTAL	488.3	--	1.68	168.3	--	.85	183.0	--	1.08

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

132069.6

193530.17

## SACRAMENTO RIVER BASIN

345

11382000 THOMES CREEK AT PASKENTA, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANECUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT.											
15...	0740	14.0	448	4210	5090	54	67	83	94	98	100
15...	1330	15.5	152	1440	591	40	62	84	94	95	97
NOV.											
15...	1715	10.0	1140	731	2250	30	40	49	59	68	--
DEC.											
17...	0735	4.0	5240	6080	86000	14	20	29	39	51	60
21...	1515	8.5	1200	553	1790	13	17	24	30	35	--
JAN.											
12...	0825	5.0	2770	1450	10800	11	18	25	32	40	47
16...	0725	7.0	7660	5200	108000	22	23	28	35	46	54
16...	1235	8.0	6060	3610	59100	15	22	31	40	50	57
16...	1705	7.5	4560	2260	27800	12	20	30	39	50	58
17...	1400	6.5	2050	716	3960	20	28	37	48	56	--
MAR.											
01...	1140	8.0	1110	120	360	--	--	--	--	--	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	98	--	99	--	100	--	--	--	--	--
NOV.											
15...	76	--	87	--	99	--	100	--	--	--	--
DEC.											
17...	--	73	--	86	--	95	--	100	--	--	--
21...	37	--	41	--	50	--	73	--	92	--	100
JAN.											
12...	--	55	--	70	--	86	--	99	--	100	--
16...	--	67	--	83	--	93	--	99	--	100	--
16...	--	68	--	82	--	96	--	98	--	100	--
16...	--	69	--	82	--	95	--	100	--	--	--
17...	62	--	68	--	80	--	95	--	100	--	--
MAR.											
01...	82	--	84	--	89	--	100	--	--	--	--

## SACRAMENTO RIVER BASIN

## 11384600 LITTLE STONY CREEK ABOVE EAST PARK RESERVOIR, NEAR LODOGA, CALIF.

LOCATION.--Lat 39°17'48", long 122°32'22", in NE¼SW¼ sec.28, T.17 N., R.6 W., Colusa County, temperature recorder at gaging station on left bank, 1.1 miles upstream from county bridge on Lodoga-Stonyford road, 1.4 miles downstream from Frenzel Creek, and 2.8 miles southwest of Lodoga.

DRAINAGE AREA.--45.6 sq mi.

PERIOD OF RECORD.--Water temperatures: May 1967 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Minimum, freezing point Dec. 9-11, 16.

Period of record:

Water temperatures: Maximum (1967-72), 33.5°C July 15, 1972; minimum, freezing point Dec. 21-23, 1968, Dec. 9-11, 16, 1972.

REMARKS.--Recorder malfunction Mar. 23-30, Apr. 8-14, 23-30, July 5-31, Aug. 13 to Sept. 13. Clock stopped Sept. 20-30; range in temperature, 11.5°C to 22.5°C.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	15.0	11.0	8.0	5.0	4.0	5.5	4.5	7.5	5.0	10.5	8.5
2	21.0	15.5	12.5	8.0	5.0	4.5	5.5	4.5	8.0	5.5	10.0	7.0
3	21.0	15.5	12.5	9.5	5.5	4.5	5.5	4.0	7.5	7.0	9.0	7.5
4	20.5	15.5	14.5	10.5	5.5	4.0	4.5	3.0	8.0	7.5	8.5	6.5
5	20.5	15.5	12.0	8.0	4.0	2.0	3.0	1.0	9.5	8.0	10.0	6.5
6	20.0	15.5	11.0	7.0	3.0	2.0	3.0	1.5	9.0	8.5	10.0	7.5
7	19.0	14.5	11.0	8.0	3.0	2.5	2.5	1.0	10.0	8.5	9.5	6.5
8	19.5	14.5	9.0	6.0	3.0	1.0	3.0	0.5	10.0	9.0	11.5	8.0
9	17.5	15.5	9.0	7.0	1.0	0.0	3.5	0.5	9.5	8.5	12.0	7.5
10	17.0	15.0	10.0	8.5	0.5	0.0	5.0	3.5	9.5	8.5	12.0	8.5
11	15.5	14.0	9.5	8.0	0.5	0.0	6.5	4.0	10.0	8.5	10.5	6.5
12	15.5	14.0	9.0	6.5	0.5	0.5	8.5	6.5	9.0	8.0	10.0	6.5
13	17.5	14.0	9.0	8.5	0.5	0.5	9.0	7.5	9.0	8.0	10.5	6.5
14	14.5	13.0	9.5	8.5	0.5	0.5	9.0	6.5	10.0	8.0	10.5	6.0
15	14.5	13.0	9.0	8.5	0.5	0.5	9.0	7.0	9.5	7.0	12.0	6.0
16	14.5	13.0	9.0	8.0	1.0	0.0	9.0	8.0	10.0	7.5	10.5	7.5
17	17.0	13.5	8.5	7.0	4.0	1.0	8.0	7.0	10.5	7.5	9.5	7.0
18	17.0	12.0	8.5	7.5	7.0	4.5	8.5	7.5	9.0	6.0	11.0	5.5
19	16.5	12.0	9.0	8.0	8.0	7.0	7.5	6.5	9.5	5.5	9.0	8.0
20	17.0	12.5	9.0	7.5	8.0	7.5	7.5	6.0	10.0	6.0	9.0	7.0
21	17.0	11.5	8.5	7.5	9.0	8.0	8.0	6.5	10.0	7.0	9.0	7.0
22	16.5	12.5	8.0	7.0	9.0	8.0	7.5	5.5	10.0	6.5	11.5	5.5
23	16.5	11.5	7.0	5.5	8.0	6.5	7.5	5.0	9.5	7.0	---	---
24	15.5	11.0	6.5	5.5	8.5	7.0	7.5	5.5	9.5	9.0	---	---
25	15.0	10.0	6.5	5.5	7.0	6.5	8.0	6.5	9.5	8.5	---	---
26	14.5	9.5	7.5	6.5	7.0	6.0	6.5	4.5	10.0	9.0	---	---
27	13.5	8.0	7.5	6.5	7.0	6.5	7.0	4.5	9.5	9.0	---	---
28	13.5	8.0	6.5	5.5	7.0	5.5	7.5	4.0	11.0	8.5	---	---
29	11.0	6.0	6.5	5.5	5.5	4.0	7.5	5.0	---	---	---	---
30	10.5	5.5	6.0	5.0	5.5	4.5	8.0	6.0	---	---	---	---
31	10.5	5.0	---	---	5.5	5.0	8.0	6.0	---	---	12.5	7.0
MONTH-	21.0	5.0	14.5	5.0	9.0	0.0	9.0	0.5	11.0	5.0	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	6.0	17.5	9.0	24.5	17.0	27.5	18.0	29.5	24.0	---	---
2	12.5	6.0	17.5	10.0	24.0	16.5	28.0	18.0	29.5	24.0	---	---
3	13.5	7.0	18.0	11.5	24.5	16.5	28.5	18.5	29.5	23.0	---	---
4	14.5	7.5	17.0	11.0	25.0	15.5	29.0	19.0	29.0	23.5	---	---
5	15.5	8.0	17.5	9.5	25.5	16.5	---	---	29.0	23.0	---	---
6	16.5	9.0	18.5	11.0	27.0	17.5	---	---	29.0	23.0	---	---
7	15.0	9.5	18.0	11.5	27.5	18.0	---	---	29.0	23.0	---	---
8	---	---	19.0	11.0	27.5	18.5	---	---	28.5	23.5	---	---
9	---	---	19.0	11.0	27.5	18.0	---	---	28.0	23.5	---	---
10	---	---	20.0	12.0	26.0	18.0	---	---	27.5	24.0	---	---
11	---	---	20.5	12.0	27.0	18.0	---	---	28.5	23.5	---	---
12	---	---	21.5	13.0	26.5	17.5	---	---	28.0	24.5	---	---
13	---	---	22.0	14.0	22.0	17.0	---	---	---	---	---	---
14	---	---	22.5	15.0	23.0	15.0	---	---	---	---	24.0	16.0
15	14.5	10.0	23.0	16.0	23.5	14.0	---	---	---	---	24.0	16.5
16	14.0	10.0	23.5	16.0	24.0	16.0	---	---	---	---	24.0	17.0
17	15.0	9.5	24.5	17.5	23.5	13.5	---	---	---	---	24.0	16.0
18	13.5	6.5	24.0	16.5	24.5	14.5	---	---	---	---	23.0	16.5
19	14.0	7.0	22.5	16.0	26.5	16.0	---	---	---	---	22.5	17.0
20	14.5	7.5	22.0	16.5	28.0	17.0	---	---	---	---	23.0	17.0
21	15.5	8.0	22.5	14.5	27.5	18.0	---	---	---	---	---	---
22	16.5	8.5	23.0	15.5	24.5	18.5	---	---	---	---	---	---
23	---	---	22.0	16.0	22.5	17.0	---	---	---	---	---	---
24	---	---	18.0	16.5	26.5	16.5	---	---	---	---	---	---
25	---	---	19.0	13.5	28.5	18.0	---	---	---	---	---	---
26	---	---	21.0	13.0	29.5	19.0	---	---	---	---	---	---
27	---	---	22.5	14.0	30.0	20.5	---	---	---	---	---	---
28	---	---	24.5	15.5	30.0	20.5	---	---	---	---	---	---
29	---	---	25.0	17.0	29.0	19.0	---	---	---	---	---	---
30	---	---	25.0	19.0	27.5	18.0	---	---	---	---	---	---
31	---	---	24.0	19.0	---	---	---	---	---	---	---	---
MONTH-	---	---	25.0	9.0	30.0	13.5	---	---	---	---	---	---

## SACRAMENTO RIVER BASIN

347

11387000 STONY CREEK NEAR FRUTO, CALIF.

LOCATION.--Lat 39°40'18", long 122°31'01", in SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec.15, T.21 N., R.6 W., Glenn County, temperature recorder at gaging station on right bank, 0.3 mile downstream from Grindstone Creek, and 6.5 miles northwest of Fruto.

DRAINAGE AREA.--597 sq mi.

PERIOD OF RECORD.--Chemical analyses: March 1964 to September 1966.

Water temperatures: December 1970 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 30.5°C June 7; minimum, freezing point on several days during December and January.

Period of record:

Water temperatures: Maximum, 33.5°C Aug. 9, 1972; minimum, freezing point on several days in 1972 and 1973.

REMARKS.--Temperature recorder malfunction Mar. 13, 14, July 25 to Aug. 6.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.5	17.0	13.5	10.5	8.5	7.0	6.0	2.0	8.0	5.5	11.0	9.0
2	23.5	17.0	15.5	9.5	7.0	6.5	5.0	2.0	8.0	6.0	11.0	8.5
3	24.5	16.5	14.5	11.5	7.5	6.0	5.0	1.5	7.0	6.5	9.5	8.5
4	24.0	17.5	16.5	12.5	6.5	3.5	4.5	0.5	8.0	7.0	10.0	8.0
5	23.0	16.5	15.0	9.5	5.5	1.0	4.0	0.0	8.0	6.5	10.5	8.0
6	21.5	15.0	14.0	9.5	5.5	1.5	4.5	0.5	7.5	7.0	11.0	8.5
7	22.0	15.0	13.0	11.5	6.0	1.5	4.0	0.0	7.5	7.0	10.0	8.0
8	22.0	16.0	14.0	10.0	3.5	0.0	2.0	0.0	9.5	7.5	11.5	8.5
9	19.5	17.0	12.0	10.5	3.0	0.0	2.5	0.0	8.5	8.0	12.0	8.5
10	20.0	16.5	12.5	11.0	3.0	0.0	4.5	1.5	9.0	8.0	11.0	9.0
11	19.5	16.5	14.0	10.5	3.0	0.0	5.0	2.0	9.0	8.0	11.5	8.5
12	18.5	16.0	13.0	8.5	1.0	0.0	5.0	4.5	9.0	8.0	10.5	7.5
13	20.5	15.5	11.5	10.0	3.0	0.0	5.5	4.5	9.0	8.5	---	---
14	16.5	15.0	11.5	10.0	2.5	0.0	6.5	5.0	10.0	8.5	---	---
15	15.5	14.0	10.5	10.0	3.0	1.0	7.5	6.0	9.5	7.5	13.0	7.0
16	16.5	13.5	10.5	8.5	3.0	2.0	8.0	6.0	9.5	7.5	11.5	8.5
17	19.0	14.5	11.5	7.0	5.5	2.5	6.5	5.5	10.5	8.0	12.0	8.5
18	20.0	13.0	11.0	9.0	6.5	5.5	7.0	6.0	9.5	7.0	12.5	8.0
19	20.5	13.5	11.5	8.5	7.5	6.0	7.0	6.0	10.0	7.0	10.0	9.0
20	21.0	14.5	10.5	7.0	8.5	6.5	7.0	5.5	11.0	8.0	10.5	8.5
21	20.5	13.5	10.5	8.0	9.0	7.5	7.5	6.0	10.5	7.5	10.5	8.5
22	19.5	14.5	11.0	7.0	9.0	7.5	7.5	5.5	10.0	7.5	12.0	8.0
23	21.0	13.5	10.5	6.0	8.5	5.5	7.0	5.0	10.0	8.5	12.0	8.0
24	18.0	13.0	10.5	5.5	8.0	6.0	6.5	5.5	10.5	9.5	12.5	8.0
25	18.5	11.0	11.5	6.0	7.5	5.0	7.0	5.5	10.0	9.0	14.0	10.0
26	18.0	11.5	12.5	7.0	7.5	4.0	7.5	5.0	10.0	9.0	14.0	9.5
27	17.5	10.5	11.5	7.5	6.5	5.5	7.0	5.0	9.5	9.0	13.5	9.0
28	16.0	10.5	11.5	6.5	6.0	3.5	7.5	5.0	10.5	9.0	13.0	8.0
29	13.5	8.5	11.5	6.5	5.0	2.0	6.5	5.5	---	---	11.5	6.0
30	13.0	7.5	11.0	6.0	5.5	2.0	7.5	6.0	---	---	10.0	8.5
31	14.0	7.5	---	---	5.5	2.5	8.0	6.0	---	---	13.5	7.5
MONTH	24.5	7.5	16.5	5.5	9.0	0.0	8.0	0.0	11.0	5.5	14.0	6.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	8.0	16.0	11.0	28.0	19.5	22.5	16.0	---	---	24.0	20.5
2	13.5	7.5	16.0	11.5	27.5	19.0	23.0	16.5	---	---	26.5	21.0
3	14.0	8.5	16.0	12.0	26.5	19.5	23.5	17.0	---	---	25.5	19.5
4	16.5	9.0	15.0	12.0	28.0	18.0	24.0	17.5	---	---	26.0	20.0
5	17.0	9.5	16.5	12.0	29.0	19.5	24.5	17.5	---	---	25.5	20.0
6	17.5	11.0	16.5	12.5	30.0	20.5	24.0	17.5	27.5	22.5	26.5	20.0
7	15.0	10.5	20.0	12.5	30.5	21.0	24.5	18.0	27.5	21.5	25.0	19.5
8	16.0	9.5	20.5	13.0	29.0	21.5	25.0	18.5	27.5	21.5	24.0	18.5
9	16.0	11.5	21.0	13.0	30.0	20.5	25.5	19.0	27.5	21.5	25.5	20.0
10	18.0	12.5	21.5	14.0	28.5	21.0	25.5	19.5	28.0	22.0	26.0	20.0
11	18.0	11.5	22.0	14.0	29.0	20.5	25.5	19.5	28.5	22.0	26.0	20.0
12	18.5	12.0	23.5	15.5	28.5	20.0	25.5	19.5	28.5	22.0	26.0	20.5
13	15.0	12.5	24.0	16.5	22.5	14.5	25.5	19.5	28.5	22.0	25.5	20.5
14	18.5	11.5	24.0	17.5	19.5	13.5	26.5	19.5	28.5	22.0	25.5	19.5
15	17.5	13.5	24.0	17.0	19.0	13.5	26.0	19.0	29.0	22.5	25.5	19.5
16	16.5	13.5	25.0	17.5	19.0	14.0	25.5	19.0	29.0	22.0	25.0	19.5
17	17.5	12.0	26.0	18.5	20.5	13.0	29.5	19.5	28.5	22.5	25.5	20.0
18	17.0	9.0	26.0	18.5	21.0	13.5	26.0	19.5	29.0	22.5	25.0	20.0
19	16.0	9.5	24.0	18.0	22.0	14.0	26.0	20.0	29.0	22.5	23.0	20.0
20	16.0	9.5	23.5	16.0	22.5	14.5	26.5	20.0	29.0	23.0	24.5	20.0
21	17.5	9.5	24.0	16.5	22.0	15.0	27.0	20.5	29.0	23.0	25.0	18.5
22	18.5	10.5	24.5	17.5	19.5	15.0	27.0	20.5	26.5	20.5	21.0	19.5
23	20.0	13.0	23.5	17.5	19.5	15.0	26.5	21.0	25.5	20.0	24.5	19.0
24	19.0	12.5	20.5	17.5	21.5	15.0	27.0	21.5	25.0	20.0	23.5	18.5
25	18.0	11.5	21.5	15.0	22.0	15.5	27.0	20.5	26.0	20.0	22.0	17.0
26	18.5	12.0	22.0	14.5	22.5	15.5	---	---	26.5	20.5	23.5	16.5
27	17.5	12.5	25.0	15.5	23.0	16.0	---	---	26.0	21.0	24.5	16.0
28	16.0	11.5	27.0	18.0	23.0	16.5	---	---	25.5	21.0	24.5	16.0
29	15.0	11.0	28.5	19.0	22.5	16.5	---	---	25.5	22.0	24.0	16.5
30	15.5	11.0	26.0	21.5	22.5	16.0	---	---	25.5	22.0	23.5	16.5
31	---	---	25.0	21.0	---	---	---	---	26.0	22.0	---	---
MONTH	20.0	7.5	28.5	11.0	30.5	13.0	29.5	16.0	29.0	20.0	26.5	16.0

## SACRAMENTO RIVER BASIN

11388000 STONY CREEK BELOW BLACK BUTTE DAM, NEAR ORLAND, CALIF.

LOCATION.--Lat 39°49'07", long 122°19'26", in NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.28, T.23 N., R.4 W., Tehama County, at gaging station on left bank, 200 ft downstream from road bridge, 0.6 mile downstream from Black Butte Dam, and 8.1 miles north-west of Orland.

DRAINAGE AREA.--737 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1969, water years 1970-73 (partial-record station). Published as "at damsite" in 1959-64.

Water temperatures: June 1969 to September 1973.

Sediment records: Water years 1958-62 (partial-record station).

EXTREMES, 1972-73:

Water temperatures: Minimum, 3.5°C Dec. 9.

Period of record:

Water temperatures: Maximum (1969-72), 29.0°C (recorded), July 29, 1971; minimum (1971-73), 3.5°C Jan. 3, 4, Feb. 2, Dec. 9, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Temperature probe above water level Oct. 16-18, Apr. 2-6. Clock stopped Aug. 9 to Sept. 19.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
OCT.									
12...	1000	199	--	--	--	--	--	--	--
NOV.									
22...	1145	34	17	146	0	120	26	.33	.02
DEC.									
11...	1150	30	--	--	--	--	--	--	--
JAN.									
04...	1145	517	17	127	0	104	27	.28	.02
FEB.									
01...	1130	43	--	--	--	--	--	--	--
MAR.									
22...	1230	1060	--	--	--	--	--	--	--
APR.									
09...	1330	40	--	--	--	--	--	--	--
MAY									
08...	1045	874	--	--	--	--	--	--	--
JUNE									
15...	1130	207	--	--	--	--	--	--	--
JULY									
16...	1035	248	--	--	--	--	--	--	--
AUG.									
13...	1330	256	--	--	--	--	--	--	--
SEP.									
17...	1110	154	--	--	--	--	--	--	--

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT.									
12...	--	--	--	342	--	--	45	--	--
NOV.									
22...	138	18	.6	342	8.1	10.0	15	12.0	200
DEC.									
11...	--	--	--	372	--	5.0	15	--	--
JAN.									
04...	132	28	.6	327	7.7	6.0	35	13.0	100
FEB.									
01...	--	--	--	296	--	7.0	60	--	--
MAR.									
22...	--	--	--	288	7.8	10.0	40	11.0	--
APR.									
09...	--	--	--	301	--	15.0	5	--	--
MAY									
08...	--	--	--	311	8.0	15.5	4	11.9	--
JUNE									
15...	--	--	--	325	--	23.5	50	--	--
JULY									
16...	--	--	--	333	7.9	23.0	25	9.6	--
AUG.									
13...	--	--	--	312	--	26.0	30	--	--
SEP.									
17...	--	--	--	364	8.1	22.0	30	12.1	--

11388000 STONY CREEK BELOW BLACK BUTTE DAM, NEAR ORLAND, CALIF.--Continued

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	18.0	14.0	12.0	10.0	9.0	6.5	6.0	7.5	6.0	10.5	10.0
2	---	---	16.5	11.0	9.5	9.0	6.5	6.0	7.0	6.5	11.5	10.0
3	---	---	13.0	12.5	9.0	8.5	6.5	6.0	7.0	6.5	10.5	10.0
4	---	---	16.5	12.5	10.0	7.5	6.5	6.0	7.5	6.5	10.5	10.0
5	---	---	16.0	11.0	9.0	5.5	6.5	5.5	7.5	7.0	10.5	10.0
6	---	---	15.0	10.5	8.5	5.5	6.5	5.5	8.0	7.0	10.0	10.0
7	20.5	19.0	13.0	11.0	9.5	6.0	6.5	5.0	8.0	7.5	10.5	10.0
8	20.0	19.0	15.5	10.0	6.5	4.0	5.0	4.0	8.5	8.0	11.0	10.0
9	19.5	19.0	12.5	11.0	6.0	3.5	6.0	5.0	8.5	8.0	11.5	10.0
10	19.5	19.0	12.5	11.5	6.0	4.0	6.0	5.5	9.0	8.5	11.0	10.0
11	19.0	18.5	15.0	11.0	7.0	4.0	6.0	4.0	9.0	8.5	11.0	10.0
12	18.5	18.0	12.5	10.0	5.5	4.5	4.5	4.0	9.0	9.0	11.0	10.0
13	19.0	17.5	11.5	11.0	7.0	4.0	5.0	4.5	9.0	9.0	11.0	10.0
14	18.0	17.5	12.5	11.0	5.5	4.5	5.5	5.0	9.5	9.0	13.5	8.5
15	18.5	17.5	11.0	10.5	5.5	4.5	6.0	5.0	9.5	9.0	16.5	8.5
16	21.0	14.0	12.5	10.0	5.5	4.5	6.5	6.0	10.0	9.0	13.0	9.0
17	23.5	11.5	13.5	9.5	5.5	5.0	7.0	6.5	10.0	9.5	14.0	9.0
18	23.5	9.5	11.5	10.5	5.5	5.0	7.0	7.0	9.5	9.0	16.5	7.5
19	18.0	16.5	13.0	10.0	5.5	5.0	7.5	7.0	10.0	9.0	11.0	9.5
20	18.0	16.5	13.0	9.0	8.0	5.5	7.5	7.0	10.5	9.0	12.0	9.5
21	18.0	16.5	11.5	9.5	8.0	6.5	7.0	7.0	10.5	9.0	10.0	8.5
22	18.0	16.5	12.0	9.0	8.5	5.5	7.0	7.0	10.0	9.5	10.5	10.0
23	18.0	16.5	12.0	8.5	6.5	5.5	7.0	7.0	10.0	9.0	11.5	9.5
24	17.5	16.0	12.5	9.0	6.5	6.0	7.0	6.5	11.0	9.5	15.5	10.0
25	17.5	16.0	12.5	8.5	6.5	6.0	7.0	6.5	10.5	10.0	15.5	9.5
26	17.0	15.5	12.5	9.5	6.5	6.0	7.0	6.5	11.0	10.0	16.0	9.5
27	16.5	15.0	12.0	8.5	6.5	6.5	6.5	6.5	10.5	10.5	15.0	9.5
28	17.0	14.0	11.5	9.0	6.5	6.0	7.0	6.5	10.5	10.0	14.0	8.5
29	15.5	13.0	11.5	8.5	6.5	6.0	6.5	6.5	---	---	14.5	8.5
30	15.0	11.5	10.5	8.5	6.5	6.0	6.5	6.5	---	---	10.5	10.0
31	16.0	11.5	---	---	6.5	6.0	9.5	6.0	---	---	16.0	9.0
MONTH	23.5	9.5	16.5	8.5	10.0	3.5	9.5	4.0	11.0	6.0	16.5	7.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	8.5	15.0	14.0	19.0	18.5	23.5	22.0	27.0	24.5	---	---
2	20.0	7.0	15.0	14.0	19.5	18.5	24.0	22.0	27.0	24.5	---	---
3	24.0	5.5	15.0	14.5	20.0	19.0	24.5	22.0	27.0	24.5	---	---
4	32.5	6.5	15.0	14.0	20.5	19.0	24.0	22.5	27.0	24.5	---	---
5	33.0	7.0	15.5	14.5	21.0	19.5	24.5	22.5	27.0	24.5	---	---
6	36.0	8.5	15.5	15.0	21.0	20.0	24.5	22.5	27.0	24.5	---	---
7	18.0	10.5	15.5	14.5	21.0	20.0	24.5	22.5	27.0	25.0	---	---
8	18.0	10.0	15.5	14.5	21.5	20.0	24.5	22.5	27.0	25.0	---	---
9	17.0	11.0	16.0	15.0	22.0	21.0	24.5	22.5	---	---	---	---
10	18.0	11.5	16.0	15.0	22.0	21.5	25.0	22.5	---	---	---	---
11	16.5	11.0	16.5	15.5	23.0	21.5	24.5	22.5	---	---	---	---
12	18.0	11.0	16.5	15.5	23.0	22.0	25.0	23.0	---	---	---	---
13	14.5	10.5	16.5	15.5	23.0	22.5	24.5	23.0	---	---	---	---
14	16.5	11.0	17.0	15.5	24.5	21.5	25.5	23.0	---	---	---	---
15	15.0	11.5	17.0	16.0	24.5	22.0	25.5	23.0	---	---	---	---
16	---	---	17.0	16.0	24.0	22.0	25.5	23.0	---	---	---	---
17	---	---	17.5	16.0	23.5	21.5	25.5	23.0	---	---	---	---
18	---	---	17.5	16.0	23.0	21.0	25.5	23.5	---	---	---	---
19	14.5	11.0	17.5	16.0	23.5	21.0	25.5	23.5	---	---	---	---
20	14.5	11.0	17.5	16.0	24.0	21.5	26.0	23.5	---	---	22.5	21.0
21	14.5	11.5	17.5	16.5	24.0	21.5	26.0	23.5	---	---	22.5	20.5
22	16.0	12.0	18.0	16.5	23.5	21.5	25.5	23.5	---	---	21.0	20.5
23	14.0	12.5	17.5	16.5	24.0	21.5	26.0	24.0	---	---	22.0	20.0
24	14.0	13.0	17.0	16.5	24.5	21.5	26.0	24.0	---	---	21.5	20.0
25	14.5	13.5	18.0	16.5	24.5	22.0	26.0	24.0	---	---	21.0	19.5
26	14.5	13.5	18.0	17.0	23.5	22.0	26.5	24.0	---	---	21.0	19.0
27	15.0	13.5	18.0	17.0	24.0	22.0	26.5	24.5	---	---	20.5	19.0
28	15.0	13.5	18.5	17.0	24.0	22.0	26.5	24.5	---	---	20.5	19.0
29	14.5	13.5	18.5	17.5	24.0	22.5	26.5	24.5	---	---	21.0	19.0
30	15.0	14.0	19.0	18.0	23.5	22.0	26.5	24.5	---	---	21.0	19.0
31	---	---	19.0	18.0	---	---	26.5	24.5	---	---	---	---
MONTH	36.0	5.5	19.0	14.0	24.5	18.5	26.5	22.0	---	---	---	---

## SACRAMENTO RIVER BASIN

## 11389000 SACRAMENTO RIVER AT BUTTE CITY, CALIF.

LOCATION.--Lat 39°27'28", long 121°59'35", in SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec.32, T.19 N., R.1 W., Glenn County, temperature recorder at gaging station on left bank, 100 ft upstream from highway bridge, 0.5 mile south of Butte City, and at mile 115.8 upstream from Sacramento.

DRAINAGE AREA.--12,081 sq mi.

PERIOD OF RECORD.--Chemical analyses: May 1955 to September 1966.

Water temperatures: May 1955 to September 1958, October 1959 to September 1967, July 1969 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Maximum, 21.0°C June 28; minimum, 4.0°C Jan. 10, 11.

Period of record:

Water temperatures: Maximum, 24.0°C June 2, 3, 5, 7, 1960; minimum (1955-57, 1959-62, 1963-67, 1969-73),

freezing point Jan. 2-5, 1960.

REMARKS.--Clock stopped Feb. 15-20; range in temperature, 9.0°C to 9.5°C. No record July 16 to Aug. 21.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.5	11.5	11.5	11.5	11.0	7.0	6.5	8.0	7.5	10.5	10.5
2	17.0	16.5	12.0	11.5	11.0	11.0	7.5	7.0	8.5	8.0	10.5	9.5
3	17.5	16.5	13.0	12.0	11.0	10.5	7.5	7.5	8.5	8.0	10.5	9.5
4	17.5	16.5	13.5	13.0	10.5	10.5	7.5	7.0	9.0	8.5	9.5	8.5
5	17.5	17.0	13.5	13.5	10.5	9.0	7.0	7.0	9.5	9.0	10.0	9.0
6	17.0	16.0	13.5	13.0	9.0	8.5	7.0	7.0	9.5	9.5	10.0	9.5
7	17.0	16.5	13.0	12.5	8.5	8.5	7.0	6.5	10.0	9.5	10.0	9.0
8	16.5	16.0	12.5	12.0	8.5	8.0	7.0	6.5	10.0	10.0	10.0	9.5
9	16.5	16.0	12.0	12.0	8.0	6.5	6.5	6.0	10.0	10.0	11.0	10.0
10	16.0	15.5	12.0	12.0	7.0	6.5	6.0	4.0	10.0	10.0	11.0	11.0
11	16.0	15.0	12.0	12.0	6.5	6.0	5.5	4.0	10.0	10.0	11.0	10.0
12	15.0	14.5	12.0	11.5	7.0	6.5	6.0	5.5	10.0	9.5	10.0	9.5
13	15.0	14.5	11.5	11.0	7.5	7.0	7.0	6.0	9.5	9.5	10.0	9.5
14	15.0	14.5	11.0	11.0	7.5	7.5	7.5	7.0	9.5	9.5	10.0	9.5
15	15.0	14.5	11.0	11.0	7.5	7.5	8.0	7.5	---	---	10.5	10.0
16	14.5	14.5	11.5	11.0	7.5	7.5	9.0	8.0	---	---	11.0	10.5
17	15.0	14.5	11.5	11.0	8.0	7.5	9.5	9.0	---	---	11.5	10.5
18	15.5	15.0	11.5	11.0	7.5	5.5	9.0	8.0	---	---	11.5	11.0
19	15.5	14.5	11.5	11.0	8.5	6.5	8.0	8.0	---	---	11.5	10.5
20	15.5	15.0	12.0	11.5	9.5	8.5	8.0	7.0	---	---	10.5	10.0
21	15.5	15.0	11.5	11.5	10.5	9.5	7.5	7.5	10.0	9.5	10.0	9.0
22	15.5	15.0	11.5	11.0	11.0	10.5	7.5	7.5	10.0	10.0	9.5	9.0
23	15.5	15.0	11.5	11.0	11.0	10.5	7.5	7.5	10.0	10.0	10.5	9.5
24	15.5	14.5	11.0	11.0	10.5	10.5	8.0	7.5	10.0	10.0	12.0	10.5
25	15.0	14.0	11.5	11.0	10.5	9.5	8.0	8.0	10.5	10.0	13.0	12.0
26	14.5	14.0	11.5	11.0	9.5	9.0	8.0	7.5	10.5	10.5	14.0	12.5
27	14.0	13.5	12.0	11.5	9.0	8.5	8.0	7.5	10.5	10.0	14.0	13.0
28	14.0	13.5	12.0	11.5	8.5	7.0	7.5	7.5	10.5	10.0	14.0	12.5
29	13.5	12.0	11.5	11.5	8.0	7.5	7.5	7.0	---	---	13.0	12.0
30	12.0	11.0	11.5	11.5	7.5	7.0	7.5	7.5	---	---	12.5	11.5
31	11.5	11.0	---	---	7.0	6.5	7.5	7.5	---	---	12.0	11.0
MONTH	17.5	11.0	13.5	11.0	11.5	5.5	9.5	4.0	10.5	7.5	14.0	8.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	11.0	16.5	14.5	18.0	16.5	20.0	17.5	---	---	17.5	16.0
2	12.5	11.0	16.5	15.0	18.5	16.5	19.0	17.0	---	---	17.5	15.5
3	13.0	11.0	16.5	15.0	19.0	17.0	19.0	17.0	---	---	17.0	15.5
4	13.5	12.0	16.5	15.5	19.0	17.0	19.0	17.0	---	---	18.0	16.0
5	14.5	13.0	16.0	15.0	19.5	17.5	19.5	17.0	---	---	18.0	16.5
6	15.5	14.0	16.5	15.0	20.0	18.0	19.5	17.5	---	---	18.0	17.0
7	15.5	14.0	17.0	15.5	20.0	18.0	19.5	17.5	---	---	18.0	17.0
8	15.0	13.5	17.5	16.0	20.5	18.0	19.5	17.5	---	---	17.0	16.0
9	15.0	14.0	17.5	16.0	20.5	18.5	19.0	17.0	---	---	17.5	16.0
10	15.5	14.0	17.5	16.0	20.0	19.0	19.0	17.0	---	---	18.0	17.0
11	16.0	14.5	17.5	15.5	20.0	18.0	19.0	17.0	---	---	18.0	17.0
12	16.0	15.0	18.0	16.0	19.5	18.0	18.0	17.0	---	---	18.5	17.5
13	16.0	14.5	18.5	16.5	19.0	18.0	19.0	16.5	---	---	18.5	17.5
14	15.0	13.5	19.0	17.0	18.5	17.0	19.0	17.0	---	---	18.5	17.5
15	15.0	14.0	19.5	17.5	18.0	16.5	19.0	17.0	---	---	18.0	17.0
16	15.0	14.0	19.5	17.5	18.0	16.5	---	---	---	---	17.5	16.5
17	15.0	14.0	20.0	18.0	18.5	16.5	---	---	---	---	17.5	16.5
18	14.5	13.0	20.0	18.0	17.5	16.0	---	---	---	---	17.5	16.5
19	14.5	13.0	19.5	18.0	18.5	16.0	---	---	---	---	17.5	16.5
20	14.0	12.5	18.5	17.0	19.0	17.0	---	---	---	---	18.0	16.5
21	14.5	13.0	18.5	17.0	19.0	17.5	---	---	---	---	17.5	16.5
22	15.5	14.0	18.5	16.5	19.0	17.5	---	---	17.0	15.5	17.0	15.5
23	16.5	15.0	18.5	16.5	18.0	17.0	---	---	16.5	15.0	16.0	15.0
24	16.5	15.5	17.5	16.5	18.5	17.0	---	---	16.0	15.0	16.0	15.0
25	17.0	15.5	17.0	16.0	19.0	17.0	---	---	16.5	14.5	16.0	15.0
26	18.0	16.5	16.5	15.0	20.0	17.5	---	---	16.0	14.5	16.0	14.5
27	18.0	16.5	17.5	15.5	20.5	18.5	---	---	16.5	15.0	16.0	15.0
28	18.0	16.5	18.0	15.5	21.0	19.0	---	---	17.0	15.0	16.0	15.0
29	18.0	16.0	19.0	16.5	20.5	19.0	---	---	18.0	16.0	16.0	15.0
30	17.0	15.0	19.5	18.0	20.0	18.5	---	---	18.0	16.0	16.0	15.0
31	---	---	18.5	17.5	---	---	---	---	18.0	16.0	---	---
MONTH	18.0	11.0	20.0	14.5	21.0	16.0	---	---	---	---	18.5	14.5



## 351

LOCATION.--Lat 39°14'11", long 121°59'33", in NW<sup>1</sup>SE<sup>4</sup> sec.17, T.16 N., R.1 W., Colusa County, on left bank downstream end of Colusa weir 1.7 miles northeast of Colusa Post Office.

PERIOD OF RECORD.--Sediment records: December 1972 to September 1973 (flood periods only).

EXTREMES.--December 1972 to September 1973:

Sediment concentrations: Maximum daily, 1,250 mg/l Jan. 12.

Total-sediment discharge: Maximum daily, 102,000 tons Jan. 19.

REMARKS.--Colusa weir diverts flood flows from the Sacramento River into Butte Basin to reduce downstream flooding.

OCTOBER			NOVEMBER			DECEMBER			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)
1							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							0	0	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							81	30	27
19							922	231	911
20							2310	307	2810
21							0	0	0
22							0	0	0
23							0	0	0
24							0	0	0
25							0	0	0
26							0	0	0
27							0	0	0
28							0	0	0
29							0	0	0
30							0	0	0
31							0	0	0
TOTAL							3313	--	3748
JANUARY			FEBRUARY			MARCH			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	0	0	0	21000	370	21000
2	0	0	0	0	0	0	13600	240	8810
3	0	0	0	0	0	0	8800	155	3680
4	0	0	0	0	0	0	6570	170	3020
5	0	0	0	359	81	403	7150	140	2700
6	0	0	0	4420	460	5490	3800	90	923
7	0	0	0	8050	589	16200	7600	235	4820
8	0	0	0	24700	878	57500	4400	135	1600
9	0	0	0	19500	400	21100	1350	80	292
10	584	31	218	13000	268	9410	22	35	19
11	3110	307	2720	21100	405	23100	0	0	0
12	16100	1250	54600	18000	315	15300	0	0	0
13	30700	871	72200	17100	280	12900	0	0	0
14	20900	678	38300	15500	225	9420	0	0	0
15	7400	322	6430	17500	280	13200	0	0	0
16	4690	287	3630	18800	290	14700	0	0	0
17	28900	1100	91300	9990	180	4860	0	0	0
18	38300	816	84400	4660	155	1950	0	0	0
19	39800	945	102000	1720	120	557	0	0	0
20	42600	650	74800	106	48	29	0	0	0
21	31400	470	39800	0	0	0	0	0	0
22	25500	395	27200	0	0	0	0	0	0
23	22300	320	19300	0	0	0	0	0	0
24	19000	275	14100	0	0	0	0	0	0
25	15500	258	10800	0	0				

TOTAL DISCHARGE FOR PERIOD (CFS-DAYS)  
TOTAL-SEDIMENT DISCHARGE FOR PERIOD (TONS)

## SACRAMENTO RIVER BASIN

11389470 COLUSA WEIR SPILL TO BUTTE BASIN NEAR COLUSA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, DECEMBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDI- MENT (MG/L)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM
DEC.							
19...	1645	7.0	892	244	588	40	55
20...	1135	7.5	2500	368	2480	41	54
JAN.							
11...	1040	4.0	2650	150	1070	31	46
12...	1300	6.0	18900	1330	67900	28	35
13...	0950	6.5	33000	851	75800	25	34
15...	1000	8.0	7910	321	6860	27	38
16...	1050	9.0	2400	223	1450	28	42
17...	0845	9.0	25300	1130	77200	21	31
19...	0945	8.0	38500	915	95100	23	32
19...	1250	8.0	40700	991	109000	22	30
20...	0940	7.5	44800	647	78300	22	30
22...	1030	8.0	25700	391	27100	16	23
23...	1030	7.5	22700	316	19400	17	25
24...	1150	7.5	19500	257	13500	18	26
26...	1020	8.0	10400	210	5900	20	28
27...	1230	7.0	3230	149	1300	24	37
FEB.							
06...	1000	8.5	5500	478	7100	29	39
06...	1315	8.5	5100	411	5660	33	43
07...	0906	9.5	5980	331	5340	17	25
08...	1010	10.0	24900	902	60600	24	31
09...	0940	9.5	21300	410	23600	23	33
09...	1315	9.5	18700	368	18600	29	31
10...	1000	9.5	11600	240	7520	24	34
10...	1145	9.5	11500	236	7330	22	32
12...	1000	9.5	18200	301	14800	21	31
12...	1245	9.5	18100	274	13400	23	34
13...	0945	9.0	18200	286	14100	22	30
13...	1145	9.0	18100	262	12800	21	30
14...	1125	9.5	16000	201	8680	18	25
14...	1130	9.0	16000	206	8900	17	24
15...	0945	9.5	16700	254	11500	13	20
15...	1005	9.5	16700	259	11700	10	15
16...	1045	9.5	20300	303	16600	15	21
16...	1315	9.5	19400	264	13800	15	21
17...	0930	9.5	10900	162	4770	15	24
17...	0935	9.5	10900	214	6300	37	42
28...	1015	10.0	11400	512	15800	18	20
28...	1300	10.0	13300	559	20100	16	19
MAR.							
01...	1010	10.0	22700	360	22100	16	22
01...	1300	10.0	22000	345	20500	18	24
02...	0830	10.0	14000	241	9110	19	27
02...	1100	10.0	13700	242	8950	18	25
03...	1000	10.0	9460	133	3400	22	32
07...	1030	9.0	7600	218	4470	17	24
08...	1015	9.0	5100	118	1630	28	35

## SACRAMENTO RIVER BASIN

353

11389470 COLUSA WEIR SPILL TO BUTTE BASIN NEAR COLUSA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, DECEMBER 1972 TO SEPTEMBER 1973

DATE	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM	TOTAL SED. FALL DIAM. % FINER THAN .062 MM	TOTAL SED. FALL DIAM. % FINER THAN .125 MM	TOTAL SED. FALL DIAM. % FINER THAN .250 MM	TOTAL SED. FALL DIAM. % FINER THAN .500 MM
DEC.							
19...	70	82	86	89	100	--	--
20...	71	87	95	100	--	--	--
JAN.							
11...	60	76	89	98	100	--	--
12...	50	64	76	86	96	100	--
13...	44	49	58	66	81	96	100
15...	51	64	77	88	96	100	--
16...	54	70	85	97	100	--	--
17...	45	56	65	72	84	99	100
19...	41	51	57	63	75	95	100
19...	38	49	56	63	77	96	100
20...	34	46	52	58	68	93	100
22...	31	40	50	58	72	98	100
23...	33	42	52	64	79	99	100
24...	35	45	55	68	81	98	100
26...	38	50	65	80	94	99	100
27...	47	64	81	95	99	100	--
FEB.							
06...	49	67	80	91	100	--	--
06...	50	71	82	93	100	--	--
07...	33	44	56	77	97	100	--
08...	42	51	58	66	82	98	100
09...	40	48	55	62	72	97	100
09...	40	50	57	67	75	98	100
10...	43	53	63	76	88	99	100
10...	41	51	62	76	86	99	100
12...	39	47	56	63	73	97	100
12...	42	52	61	68	78	99	100
13...	39	49	58	65	76	99	100
13...	39	46	55	65	77	99	100
14...	34	43	53	63	76	99	100
14...	34	44	54	63	76	99	100
15...	28	38	48	59	75	99	100
15...	23	34	47	60	78	98	100
16...	29	38	48	57	71	98	100
16...	29	39	48	57	71	99	100
17...	34	46	61	74	87	100	--
17...	51	59	66	81	91	100	--
28...	29	38	49	66	90	99	100
28...	27	37	49	64	88	99	100
MAR.							
01...	30	36	40	52	69	97	100
01...	32	40	46	54	70	99	100
02...	35	44	52	63	78	97	100
02...	33	42	51	62	77	98	100
03...	43	52	65	74	87	99	100
07...	33	44	58	73	93	99	100
08...	48	63	77	90	98	100	--

## SACRAMENTO RIVER BASIN

11389500 SACRAMENTO RIVER AT COLUSA, CALIF.

LOCATION.--Lat 39°12'51", long 121°59'57", at north end of Jimeno Grant, Colusa County, at gaging station on right bank just downstream from highway bridge at Colusa, and at mile 89.4 upstream from Sacramento.

DRAINAGE AREA.--12,096 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1966, water year 1972 (partial-record station).  
Sediment records: December 1972 to September 1973 (flood periods only).

EXTREMES.--December 1972 to September 1973:

Sediment concentrations: Maximum daily, 938 mg/l Jan. 12.

Sediment discharge: Maximum daily, 91,300 tons Jan. 12.

SUSPENDED-SEDIMENT DISCHARGE, DECEMBER 1972 TO SEPTEMBER 1973  
[During periods of flow over Colusa Weir only]

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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							--	--	--
2							--	--	--
3							--	--	--
4							--	--	--
5							--	--	--
6							--	--	--
7							--	--	--
8							--	--	--
9							--	--	--
10							--	--	--
11							--	--	--
12							--	--	--
13							--	--	--
14							--	--	--
15							--	--	--
16							--	--	--
17							--	--	--
18							25700	189	12700
19							31400	459	39200
20							32200	510	44200
21							--	--	--
22							--	--	--
23							--	--	--
24							--	--	--
25							--	--	--
26							--	--	--
27							--	--	--
28							--	--	--
29							--	--	--
30							--	--	--
31							--	--	--
DAY	JANUARY			FEBRUARY			MARCH		
	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	--	--	--	--	--	--	37500	295	29900
2	--	--	--	--	--	--	35900	218	21100
3	--	--	--	--	--	--	34700	158	14800
4	--	--	--	--	--	--	34000	150	13800
5	--	--	--	27800	196	15300	34300	158	14600
6	--	--	--	33200	480	43000	33200	125	11200
7	--	--	--	34100	676	63000	34200	205	18900
8	--	--	--	37900	667	67800	33500	170	15400
9	--	--	--	37000	330	33000	32100	140	12100
10	25200	150	10800	35600	250	24000	30500	122	10000
11	32700	321	28300	37200	332	33300	--	--	--
12	35800	938	91300	36700	270	26800	--	--	--
13	38800	678	71000	36500	250	24600	--	--	--
14	37200	453	45500	36200	195	19100	--	--	--
15	34200	346	31900	36600	231	22800	--	--	--
16	33300	365	32800	36900	236	23500	--	--	--
17	38500	765	79900	34900	180	17000	--	--	--
18	40800	530	58400	33400	175	15800	--	--	--
19	41000	615	68100	32200	175	15200	--	--	--
20	41700	450	50700	30600	155	12800	--	--	--
21	39300	365	38700	--	--	--	--	--	--
22	38000	325	33300	--	--	--	--	--	--
23	37400	270	27300	--	--	--	--	--	--
24	36700	245	24300	--	--	--	--	--	--
25	36100	235	22900	--	--	--	--	--	--
26	34700	230	21500	--	--	--	--	--	--
27	32800	233	20600	30800	150	12500	--	--	--
28	30800	160	13300	35600	458	44400	--	--	--
29	--	--	--	--	--	--	--	--	--
30	28400	210	16100	--	--	--	--	--	--
31	31700	252	21600	--	--	--	--	--	--

## SACRAMENTO RIVER BASIN

355

11389500 SACRAMENTO RIVER AT COLUSA, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY) OCTOBER 1972 TO SEPTEMBER 1973  
 [Tabulated only on days of spill over Colusa weir. Total-sediment  
 discharge was determined by summing suspended and computed unmeasured loads]

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			--	--	--	32,900						
2			--	--	--	23,800						
3			--	--	--	17,200						
4			--	--	--	16,100						
5			--	--	16,700	17,000						
6			--	--	45,200	13,400						
7			--	--	65,300	21,300						
8			--	--	70,900	17,600						
9			--	--	35,900	14,100						
10			--	11,800	26,600	11,700						
11			--	30,400	36,200	--						
12			--	94,000	29,600	--						
13			--	74,300	27,400	--						
14			--	48,400	21,800	--						
15			--	34,300	25,600	--						
16			--	35,000	26,400	--						
17			--	83,100	19,500	--						
18			13,800	62,200	18,000	--						
19			41,100	71,900	17,200	--						
20			46,200	57,400	14,600	--						
21			--	42,100	--	--						
22			--	36,400	--	--						
23			--	30,300	--	--						
24			--	27,100	--	--						
25			--	25,600	--	--						
26			--	23,900	--	--						
27			--	22,700	14,300	--						
28			--	15,100	47,000	--						
29			--	--	-----	--						
30			--	17,500	-----	--						
31		-----	--	23,500	-----	--	-----		-----			-----
			101,100	867,000	558,200	185,100						

TOTAL-SEDIMENT DISCHARGE FOR PERIOD (TONS) 1,711,400

## SACRAMENTO RIVER BASIN

11389500 SACRAMENTO RIVER AT COLUSA, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, DECEMBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDEO SEDIM- ENT (MG/L)	SUS- PENDEO SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
DEC.								
19...	1205	--	30600	486	40200	31	43	55
20...	1520	10.0	32100	492	42600	31	42	55
JAN.								
11...	1220	4.5	32500	249	21900	19	27	36
12...	0932	6.0	35100	1100	104000	27	34	45
13...	1115	7.0	39200	667	70600	33	44	56
15...	1128	8.0	34300	342	31700	26	37	48
16...	1202	9.0	32700	331	29200	21	28	39
17...	1140	9.0	38400	846	87700	31	43	58
19...	1050	7.5	41000	645	71400	32	43	56
20...	1038	7.5	42000	400	45400	32	47	57
22...	--	8.0	37900	315	32200	17	28	37
23...	1110	8.0	37400	239	24100	21	30	40
24...	1030	7.5	36700	209	20700	19	28	37
26...	1045	7.5	34800	213	20000	16	27	35
27...	1100	7.0	32700	218	19200	13	20	30
FEB.								
06...	1140	8.5	33500	466	42200	26	36	49
08...	1345	10.0	38300	598	61800	26	38	50
09...	1110	9.5	37200	310	31100	28	39	49
10...	1022	9.5	35300	223	21300	25	36	45
12...	1115	9.5	36600	232	22900	25	36	47
13...	1030	9.0	36600	256	25300	22	32	42
15...	1030	9.5	38600	196	20400	19	27	38
16...	1130	9.5	37200	238	23900	20	27	38
17...	1037	9.5	35100	172	16300	16	25	32
28...	1102	10.0	35300	428	40800	16	23	32
MAR.								
01...	1108	10.0	37700	260	26500	23	31	41
02...	0917	10.0	35900	206	20000	22	31	40
03...	1045	10.0	34800	157	14800	19	28	36
05...	1050	9.0	34500	136	12700	16	24	32
06...	1100	9.0	33200	108	9680	14	23	29
07...	1130	9.0	34300	240	22200	14	22	28
08...	1115	9.0	33600	141	12800	20	29	38
09...	1100	9.0	32300	116	10100	20	29	40

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
DEC.							
19...	67	75	82	87	96	100	--
20...	66	74	80	85	92	99	100
JAN.							
11...	48	60	70	81	96	100	--
12...	60	75	84	93	98	100	--
13...	64	71	80	90	97	100	--
15...	59	71	80	87	95	100	--
16...	50	64	80	92	97	100	--
17...	70	79	86	93	98	100	--
19...	67	75	82	91	99	100	--
20...	67	74	79	88	98	100	--
22...	48	60	71	83	95	100	--
23...	52	63	73	86	99	100	--
24...	50	63	69	82	97	100	--
26...	46	62	75	88	98	100	--
27...	42	54	75	88	98	100	--
FEB.							
06...	62	71	83	93	98	100	--
08...	63	71	80	91	99	100	--
09...	59	66	73	82	91	99	100
10...	56	67	77	88	99	100	--
12...	58	67	75	83	96	100	--
13...	52	61	67	78	90	99	100
15...	50	62	70	85	97	100	--
16...	49	58	72	85	98	100	--
17...	43	54	71	84	97	100	--
28...	42	51	70	91	98	100	--
MAR.							
01...	51	59	66	80	94	100	--
02...	50	58	71	84	98	100	--
03...	45	53	66	79	97	100	--
05...	41	46	62	77	93	99	100
06...	39	47	62	74	93	99	100
07...	37	45	61	74	82	96	100
08...	48	56	69	82	94	99	100
09...	50	61	74	86	98	100	--

## SACRAMENTO RIVER BASIN

357

11389500 SACRAMENTO RIVER AT COLUSA, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, DECEMBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	RFD MAT. SIEVE DIAM. % FINER THAN .062 MM	RFD MAT. SIEVE DIAM. % FINER THAN .125 MM	RFD MAT. SIEVE DIAM. % FINER THAN .250 MM
DEC.							
19...	1300	--	5	30600	--	--	2
20...	1610	10.0	5	30700	--	3	14
JAN.							
11...	1300	4.5	5	32400	--	2	7
12...	1040	6.0	5	35500	--	1	10
13...	1230	7.0	5	39200	--	1	7
15...	1200	8.0	5	34100	--	2	12
16...	1250	9.0	5	32900	--	2	12
17...	1220	9.0	5	38700	--	2	13
19...	1150	7.5	5	41000	--	2	10
20...	1115	7.5	5	41900	--	3	16
22...	1300	8.0	5	37900	--	2	14
23...	1200	8.0	5	37300	--	2	14
24...	1115	7.5	5	36700	--	2	13
26...	1150	7.5	5	34800	1	3	15
27...	1200	7.0	5	32700	--	2	12
FEB.							
06...	1230	8.5	5	33400	1	4	19
08...	1430	10.0	5	38400	--	1	12
09...	1130	9.5	5	37100	--	1	9
10...	1110	9.5	5	35300	--	2	14
12...	1115	9.5	5	36600	--	1	8
13...	1045	9.0	5	36600	--	2	12
14...	1230	9.0	5	36200	--	2	11
15...	1115	9.5	5	36400	--	2	17
16...	1145	9.5	5	37000	--	1	9
17...	1130	9.5	5	37000	--	1	10
28...	1130	10.0	5	35300	--	1	5
MAR.							
01...	1130	10.0	5	37700	--	2	13
02...	0940	10.0	5	35800	--	2	17
03...	1115	10.0	5	34600	--	0	8
05...	1115	9.0	5	34400	--	1	8
06...	1130	9.0	5	33100	--	1	6
07...	1130	9.0	5	34400	--	1	9
08...	1130	9.0	5	33400	--	1	8
09...	1120	9.0	5	32200	--	1	7

DATE	RFD MAT. SIEVE DIAM. % FINER THAN .500 MM	RFD MAT. SIEVE DIAM. % FINER THAN 1.00 MM	RFD MAT. SIEVE DIAM. % FINER THAN 2.00 MM	RFD MAT. SIEVE DIAM. % FINER THAN 4.00 MM	RFD MAT. SIEVE DIAM. % FINER THAN 8.00 MM	RFD MAT. SIEVE DIAM. % FINER THAN 16.0 MM	RFD MAT. SIEVE DIAM. % FINER THAN 32.0 MM
DEC.							
19...	27	42	51	60	70	88	100
20...	53	64	71	78	90	97	100
JAN.							
11...	32	56	69	82	97	100	--
12...	51	64	69	77	88	97	100
13...	46	63	71	79	89	96	100
15...	56	66	70	77	87	96	100
16...	43	56	62	69	78	86	100
17...	54	68	72	78	85	93	100
19...	49	67	76	83	93	99	100
20...	57	68	75	83	91	97	100
22...	58	73	80	84	89	95	100
23...	59	75	82	86	93	98	100
24...	54	71	81	86	93	99	100
26...	55	63	68	75	86	98	100
27...	51	62	70	76	84	93	100
FEB.							
06...	51	61	69	78	88	97	100
08...	49	58	68	78	88	97	100
09...	36	45	54	65	74	84	100
10...	57	69	76	82	89	97	100
12...	40	51	61	72	84	96	100
13...	54	69	76	82	89	95	100
14...	48	60	67	77	89	98	100
15...	50	58	67	76	88	96	100
16...	38	50	58	72	82	92	100
17...	47	58	68	78	88	97	100
28...	33	50	59	69	79	87	100
MAR.							
01...	51	64	73	83	93	99	100
02...	53	62	66	72	86	96	100
03...	39	49	58	68	78	99	100
05...	37	43	50	61	72	81	100
06...	37	56	64	72	82	92	100
07...	35	41	49	59	70	87	100
08...	41	53	64	76	89	98	100
09...	45	62	70	79	90	97	100

## SACRAMENTO RIVER BASIN

11390000 BUTTE CREEK NEAR CHICO, CALIF.

LOCATION.--Lat 39°43'34", long 121°42'28", in NW¼NW¼ sec.36, T.22 N., R.2 E., Butte County, at gaging station on right bank, 0.7 mile downstream from Little Butte Creek, and 7.5 miles east of Chico.

DRAINAGE AREA.--147 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), October 1953 to September 1968, water years 1969-73 (partial-record station).  
Water temperatures: November 1961 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Maximum, 22.5°C July 30; minimum, 2.0°C on several days during December.

Period of record:

Water temperatures: Maximum (1961-64, 1965-73), 26.0°C July 21, 22, 1966; minimum, 1.0°C Dec. 14, 15, 1967.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Clock stopped Mar. 7 to Apr. 3; range in temperature, 6.0°C to 7.5°C. Recorder malfunction Aug. 12-14, 18-23, 26, 27.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA+MG) (MG/L)
NOV. 01...	0900	141	3.7	68	0	56	1.5	49
JAN. 22...	1000	920	--	--	--	--	--	--
MAR. 21...	1030	884	--	--	--	--	--	--
MAY 14...	0815	660	--	--	--	--	--	--
JULY 18...	0915	186	--	--	--	--	--	--
SEP. 05...	0930	134	--	--	--	--	--	--

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED IRON (R) (UG/L)
NOV. 01...	0	.2	114	7.3	6.5	0	12.3	0
JAN. 22...	--	--	73	7.2	5.0	5	12.5	--
MAR. 21...	--	--	77	7.2	6.0	4	11.2	--
MAY 14...	--	--	61	7.4	13.0	4	10.0	--
JULY 18...	--	--	97	7.8	18.5	0	10.0	--
SEP. 05...	--	--	112	7.8	15.5	1	11.5	--



## SACRAMENTO RIVER BASIN

359

11390000 BUTTE CREEK NEAR CHICO, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	13.0	8.0	7.0	7.5	7.0	4.5	4.0	6.5	5.5	9.0	8.5
2	15.5	13.0	9.5	7.0	7.0	6.0	5.0	4.0	6.5	6.0	8.5	7.0
3	16.0	14.0	9.5	8.5	6.5	6.0	5.0	4.0	7.0	6.5	8.0	7.5
4	16.0	14.0	11.5	9.5	7.0	5.0	4.0	3.0	7.5	7.0	8.0	7.5
5	16.0	14.0	11.0	10.0	5.5	3.5	3.5	2.5	8.0	7.0	8.0	7.0
6	15.5	13.5	10.0	9.0	4.5	3.5	3.5	2.5	8.0	8.0	8.0	7.5
7	15.0	13.0	9.5	9.0	4.5	3.5	3.5	2.5	9.0	8.0	---	---
8	15.0	13.0	9.5	8.0	3.5	2.5	3.5	2.5	9.0	8.0	---	---
9	14.5	14.0	8.5	8.0	3.0	2.0	7.0	3.5	8.5	8.5	---	---
10	14.0	13.5	8.5	8.0	3.0	2.0	7.5	7.0	8.5	8.0	---	---
11	14.0	13.0	9.5	8.5	2.5	2.0	8.5	7.0	8.0	8.0	---	---
12	13.0	12.0	9.0	8.0	3.0	2.0	9.5	8.5	8.0	8.0	---	---
13	13.5	12.0	8.5	8.0	3.0	2.0	9.5	9.0	8.0	7.5	---	---
14	13.0	12.5	10.0	8.5	3.0	2.0	9.0	8.0	8.0	8.0	---	---
15	13.0	12.0	9.5	9.0	3.5	3.0	9.0	8.0	8.0	7.0	---	---
16	12.5	12.0	10.0	9.5	4.0	3.0	9.5	9.0	8.0	7.0	---	---
17	13.0	11.5	9.5	8.0	6.0	4.0	9.0	8.5	8.5	7.5	---	---
18	13.5	11.5	8.5	8.0	7.5	6.0	8.5	8.0	8.5	7.0	---	---
19	13.0	11.0	9.0	8.5	8.5	7.5	8.0	7.0	8.0	6.5	---	---
20	13.5	11.5	9.0	8.0	8.5	8.5	7.0	6.5	8.5	7.0	---	---
21	13.5	12.0	8.0	7.5	9.0	8.5	7.5	7.0	8.0	7.0	---	---
22	13.0	11.5	8.0	7.0	9.5	8.5	7.0	6.0	8.5	7.0	---	---
23	13.5	11.0	8.0	7.0	8.5	8.0	6.5	5.5	8.0	7.5	---	---
24	13.0	11.0	7.5	6.0	8.5	8.0	6.5	6.0	8.5	8.0	---	---
25	12.5	10.0	7.5	6.5	7.5	6.5	6.0	6.0	8.5	8.0	---	---
26	12.0	10.0	8.0	7.0	7.5	6.5	6.0	5.0	9.0	8.5	---	---
27	10.5	9.5	8.0	6.5	7.0	7.0	5.5	5.0	9.5	8.5	---	---
28	10.5	9.0	8.0	7.0	7.0	5.0	5.5	4.5	9.0	8.5	---	---
29	9.0	7.5	8.0	7.0	5.5	4.5	6.0	5.0	---	---	---	---
30	8.0	6.0	7.5	6.5	5.0	4.0	6.0	5.5	---	---	---	---
31	7.5	6.0	---	---	5.0	4.0	6.5	6.0	---	---	---	---
MONTH	16.0	6.0	11.5	6.0	9.5	2.0	9.5	2.5	9.5	5.5	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	11.5	10.0	16.0	14.0	20.5	17.5	22.0	18.5	19.0	16.0
2	---	---	12.0	10.5	17.0	14.0	20.0	16.5	22.0	18.5	18.5	15.5
3	---	---	12.0	10.5	17.0	14.0	20.0	16.5	21.5	18.0	18.0	15.0
4	9.5	7.0	11.0	9.5	17.0	14.0	20.0	16.5	21.0	18.0	20.5	15.0
5	10.0	8.0	10.5	8.5	17.5	14.5	20.5	17.0	21.0	18.0	19.0	16.0
6	10.5	8.5	12.5	10.0	18.0	15.0	20.5	17.0	21.5	18.0	19.0	16.0
7	10.5	9.0	13.0	11.0	18.0	15.0	20.5	17.0	21.0	18.0	18.5	16.0
8	10.0	7.5	13.0	11.5	19.0	16.0	20.5	17.0	21.0	17.5	18.0	15.5
9	10.5	9.0	13.0	11.0	19.5	16.5	21.0	17.5	20.5	17.5	18.5	15.0
10	11.0	9.5	13.0	11.0	18.5	16.5	21.0	17.5	20.5	17.5	18.5	16.0
11	11.5	9.5	13.0	11.0	19.0	16.0	20.5	18.0	21.0	17.5	19.0	16.0
12	11.5	10.0	13.5	11.5	19.0	16.0	20.5	17.5	---	---	19.0	16.5
13	10.5	9.0	14.0	12.0	18.0	16.5	20.0	17.0	---	---	19.0	16.5
14	10.5	8.5	14.0	13.0	18.0	15.5	21.0	17.5	---	---	18.5	16.0
15	11.0	9.5	14.0	12.5	17.5	14.5	21.5	18.0	20.5	17.5	17.5	15.0
16	9.5	8.5	14.5	13.0	17.0	14.0	20.5	18.0	20.5	17.0	17.5	14.5
17	11.0	9.5	15.0	13.5	17.5	14.5	21.5	18.5	20.5	16.5	17.0	14.0
18	10.0	8.5	15.0	13.5	17.0	13.5	22.0	18.5	---	---	17.0	14.5
19	10.0	8.5	15.0	13.5	18.0	14.5	22.0	19.0	---	---	16.5	15.0
20	8.5	7.0	14.5	13.0	19.0	15.5	21.5	18.5	---	---	17.5	16.0
21	9.5	7.5	14.5	12.5	19.5	16.5	21.0	18.5	---	---	17.0	14.5
22	11.5	9.0	15.0	12.5	18.0	16.5	20.5	17.5	---	---	16.0	14.5
23	12.0	10.0	15.0	12.5	17.5	16.0	20.5	17.0	---	---	16.0	14.0
24	12.0	10.5	14.5	13.5	18.5	15.0	20.0	17.0	18.0	15.0	15.0	13.5
25	12.0	10.5	14.5	12.5	19.5	16.0	21.0	17.0	18.0	15.0	16.0	13.5
26	12.5	11.0	14.5	12.0	21.0	17.5	21.5	18.0	---	---	16.0	13.0
27	13.0	12.0	15.0	12.0	21.5	18.5	22.0	18.5	---	---	16.0	13.0
28	12.5	11.5	16.0	13.0	22.0	19.0	22.0	19.0	19.0	15.5	16.0	13.5
29	12.5	11.5	17.0	14.5	22.0	19.0	22.0	19.0	19.5	16.0	16.0	14.0
30	12.0	10.0	17.5	15.5	21.5	18.5	22.5	19.0	19.5	16.5	16.0	14.0
31	---	---	16.5	15.5	---	---	22.0	19.0	19.5	16.5	---	---
MONTH	13.0	7.0	17.5	8.5	22.0	13.5	22.5	16.5	---	---	20.5	13.0

## SACRAMENTO RIVER BASIN

11390210 CHEROKEE CANAL NEAR NELSON, CALIF.

LOCATION.--Lat 39°34'54", long 121°41'54", in SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec.13, T.20 N., R.2 E., Butte County, at gaging station 25 ft upstream from county bridge, 4.1 miles northeast of Nelson, and 10.5 miles northwest of Oroville.

PERIOD OF RECORD.--Water temperatures: August 1970 to September 1973.  
Sediment records: August 1970 to September 1973.

## EXTREMES, 1972-73:

Sediment concentrations: Maximum daily, 2,310 mg/l Feb. 27; minimum daily, no flow for many days during August and September.

Sediment loads: Maximum daily, 18,500 tons Feb. 27; minimum daily, 0 tons on many days.

## Period of record:

Sediment concentrations: Maximum daily, 2,310 mg/l Feb. 27, 1973; minimum daily, no flow for many days each year.

Sediment loads: Maximum daily, 18,500 tons Feb. 27, 1973; minimum daily, 0 tons on many days each year.

REMARKS.--No flow Aug. 20 to Sept. 21.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	---	7.0	6.5	11.0	14.0	12.5	22.5	27.0	---	26.0	---
2	---	11.0	6.5	6.5	10.5	14.5	14.5	19.5	---	28.0	---	---
3	---	11.5	6.5	6.0	---	---	16.5	---	26.5	28.0	---	---
4	20.0	13.5	6.0	4.5	10.0	12.5	18.0	18.0	---	28.0	---	---
5	26.0	13.5	---	4.0	11.0	13.5	21.0	---	---	---	23.5	---
6	21.0	---	4.0	4.5	10.0	10.5	22.5	---	27.0	28.0	---	---
7	---	10.5	---	3.5	9.5	12.0	15.5	25.5	---	---	26.5	---
8	20.0	---	3.5	2.5	12.0	14.5	15.0	---	27.5	---	---	---
9	---	7.5	0.0	8.5	12.0	15.5	---	25.0	---	---	---	---
10	17.0	10.0	2.0	8.0	9.5	13.0	17.0	---	---	28.5	26.5	---
11	---	12.0	1.5	9.0	12.5	12.5	18.0	---	30.0	---	---	---
12	15.5	10.5	2.0	11.5	12.0	13.0	---	31.0	---	---	---	---
13	---	9.5	0.5	11.5	13.0	11.5	16.0	---	---	---	---	---
14	15.5	10.5	1.0	11.5	11.5	13.0	15.5	29.0	22.0	24.5	29.0	---
15	16.5	10.0	1.5	---	13.5	15.0	---	---	---	---	---	---
16	16.5	9.5	3.0	11.0	12.5	13.0	14.5	30.0	23.0	26.5	---	---
17	16.5	8.0	5.5	10.5	12.0	15.0	11.5	---	---	---	---	---
18	---	10.5	7.5	10.0	13.0	14.5	14.0	29.0	---	---	---	---
19	14.5	12.0	9.5	8.5	11.0	10.0	13.5	---	---	25.0	---	---
20	---	7.0	10.0	9.5	12.0	12.0	14.0	---	27.0	---	---	---
21	---	7.5	11.0	9.5	15.0	8.5	16.0	27.0	---	---	---	---
22	16.0	6.0	12.5	9.0	14.0	---	18.0	---	22.5	26.0	---	---
23	16.0	9.0	11.0	---	14.0	15.5	19.0	23.0	---	---	---	---
24	14.5	---	9.0	7.5	12.0	16.5	18.0	---	25.0	29.0	---	---
25	---	8.5	---	9.0	14.5	18.5	19.5	---	---	---	---	---
26	---	10.0	9.0	9.0	11.5	18.0	22.5	27.5	---	---	---	---
27	12.0	7.0	7.5	9.0	12.0	18.0	22.5	---	---	27.5	---	---
28	---	7.5	8.0	9.0	12.0	11.5	---	---	26.0	---	---	---
29	12.5	7.5	7.0	8.0	---	14.0	19.5	33.0	---	---	---	19.0
30	---	8.0	7.5	9.5	---	11.0	19.5	---	---	27.0	---	---
31	9.5	---	8.5	10.5	---	16.0	---	---	---	---	---	---
MONTH	---	9.5	6.0	8.0	12.0	13.5	17.0	---	---	---	---	---

## SACRAMENTO RIVER BASIN

361

11390210 CHEROKEE CANAL NEAR NELSON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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	6.2	4	.07	23	5	.31	34	5	.46
2	6.2	4	.07	23	4	.25	34	3	.28
3	5.7	4	.06	24	5	.32	35	4	.38
4	5.7	4	.06	30	10	.81	39	5	.53
5	6.8	5	.09	28	9	.68	45	5	.61
6	4.8	5	.06	11	7	.21	109	59	23
7	4.8	5	.06	13	35	2.0	86	26	6.0
8	5.7	6	.09	29	70	6.9	59	14	2.2
9	6.2	8	.13	7.4	25	.50	53	23	4.2
10	8.0	8	.17	22	16	1.0	54	6	.87
11	22	13	.78	156	248	134	44	5	.59
12	31	5	.42	40	53	8.0	34	4	.37
13	41	4	.44	54	48	13	34	4	.37
14	46	9	1.2	585	865	1990	32	4	.35
15	44	8	.95	283	377	579	42	5	.57
16	47	10	1.3	586	660	2170	61	6	1.4
17	45	9	1.1	90	36	8.7	1210	829	3510
18	42	9	1.0	55	15	2.2	656	458	1530
19	42	5	.57	112	44	13	569	309	577
20	42	4	.45	78	12	2.5	182	59	29
21	42	4	.45	57	5	.77	130	22	7.7
22	41	4	.44	59	4	.64	112	25	7.6
23	37	3	.30	52	3	.42	90	17	4.1
24	34	4	.37	49	2	.26	117	98	35
25	34	5	.46	35	2	.19	84	28	6.4
26	35	4	.38	21	4	.23	74	11	2.2
27	32	4	.35	24	8	.52	78	24	7.8
28	24	5	.32	23	6	.37	111	46	16
29	22	6	.36	28	5	.38	69	9	1.7
30	23	6	.37	34	7	.64	60	6	.97
31	23	5	.31	--	--	--	55	7	1.0
TOTAL	809.1	--	13.18	2631.4	--	4937.80	4392	--	5778.65

DAY	JANUARY			FEBRUARY			MARCH		
	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	52	5	.70	166	45	20	264	186	133
2	52	5	.70	135	32	12	190	104	53
3	52	4	.56	148	78	40	213	268	200
4	50	4	.54	274	350	297	215	248	155
5	49	4	.53	209	186	117	140	78	29
6	49	4	.53	702	730	2510	567	546	1310
7	49	3	.40	757	691	1580	222	120	72
8	115	104	83	295	173	138	187	76	38
9	1170	1450	5350	478	524	1130	157	60	25
10	509	310	481	1300	1370	6110	145	47	18
11	1940	1930	13500	522	519	873	138	34	13
12	1560	1310	7240	264	140	100	119	65	21
13	521	259	438	212	95	54	81	34	7.4
14	248	80	54	563	535	1120	69	18	3.4
15	799	628	4160	274	188	148	67	20	3.6
16	2050	1750	11700	196	80	42	73	40	7.9
17	718	623	1560	175	62	29	77	49	10
18	1590	1520	9910	151	54	22	69	69	13
19	402	248	298	130	46	16	72	79	16
20	250	80	54	115	40	12	146	208	85
21	273	172	136	79	35	7.5	224	331	313
22	184	58	29	69	34	6.3	183	254	138
23	138	40	15	65	33	5.8	122	70	23
24	143	46	20	164	499	452	102	23	6.3
25	250	206	150	140	184	92	95	17	4.4
26	187	85	43	401	595	1400	91	14	3.4
27	142	38	15	2080	2310	18500	89	16	3.8
28	130	30	11	704	646	1830	81	20	4.4
29	267	329	543	--	--	--	79	19	4.1
30	468	368	639	--	--	--	79	15	3.2
31	184	75	37	--	--	--	217	141	116
TOTAL	14591	--	56469.96	10768	--	36663.6	4573	--	2832.9

## SACRAMENTO RIVER BASIN

11390210 CHEROKEE CANAL NEAR NELSON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	108	23	6.7	24	8	.52	18	12	.58
2	89	11	2.6	24	5	.32	20	11	.59
3	83	9	2.0	24	6	.39	9.3	9	.23
4	81	7	1.5	23	9	.56	12	9	.29
5	77	5	1.0	22	9	.53	13	10	.35
6	75	5	1.0	23	10	.62	13	10	.35
7	71	15	2.9	23	10	.62	10	10	.27
8	69	24	4.5	23	9	.56	9.3	12	.30
9	67	23	4.2	23	6	.37	11	16	.48
10	65	14	2.5	21	6	.34	11	20	.59
11	63	13	2.2	22	7	.42	12	22	.71
12	63	14	2.4	23	7	.43	13	19	.67
13	63	14	2.4	24	7	.45	12	15	.49
14	61	13	2.1	25	8	.54	12	11	.36
15	61	12	2.0	25	8	.54	14	12	.45
16	61	14	2.3	23	8	.50	14	14	.53
17	61	14	2.3	18	8	.39	14	11	.42
18	59	13	2.1	22	8	.48	13	10	.35
19	57	15	2.3	23	8	.50	12	13	.42
20	55	13	1.9	25	8	.54	11	16	.48
21	53	18	2.6	24	8	.52	9.3	19	.48
22	47	22	2.8	23	8	.50	9.3	25	.63
23	45	13	1.6	23	9	.56	10	23	.62
24	50	10	1.4	24	9	.58	10	15	.41
25	49	14	1.9	24	8	.52	10	15	.41
26	41	22	2.4	18	8	.39	9.3	19	.48
27	35	21	2.0	14	8	.30	8.6	22	.51
28	31	19	1.6	19	9	.46	7.9	24	.51
29	29	13	1.0	18	10	.49	7.9	22	.47
30	23	13	.81	17	10	.46	8.6	16	.37
31	--	--	--	14	11	.42	--	--	--
TOTAL	1792	--	69.01	678	--	14.82	344.5	--	13.80

DAY	JULY			AUGUST			SEPTEMBER		
	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	9.3	11	.28	1.6	34	.15	0	0	0
2	9.3	12	.30	.32	34	.03	0	0	0
3	10	18	.49	.50	27	.04	0	0	0
4	8.6	15	.35	1.6	20	.09	0	0	0
5	9.3	14	.35	1.8	17	.08	0	0	0
6	10	14	.38	3.0	16	.13	0	0	0
7	10	14	.38	1.6	16	.07	0	0	0
8	11	15	.45	.60	19	.03	0	0	0
9	10	17	.46	.75	21	.04	0	0	0
10	8.6	19	.44	1.3	22	.08	0	0	0
11	7.9	20	.43	1.6	22	.10	0	0	0
12	7.9	20	.43	1.8	22	.11	0	0	0
13	4.6	21	.26	1.1	22	.07	0	0	0
14	6.7	22	.40	.60	22	.04	0	0	0
15	7.3	24	.47	.24	22	.01	0	0	0
16	7.9	25	.53	.04	22	0	0	0	0
17	7.9	26	.55	.04	21	0	0	0	0
18	5.6	29	.44	.04	20	0	0	0	0
19	4.2	31	.35	.01	0	0	0	0	0
20	5.1	33	.45	0	0	0	0	0	0
21	5.6	35	.53	0	0	0	0	0	0
22	6.7	35	.63	0	0	0	.86	7	.06
23	5.6	35	.53	0	0	0	1.3	17	.06
24	5.1	34	.47	0	0	0	1.8	15	.07
25	4.6	33	.41	0	0	0	4.6	17	.21
26	3.8	37	.34	0	0	0	11	16	.48
27	3.4	32	.29	0	0	0	13	14	.49
28	2.4	32	.21	0	0	0	10	13	.35
29	2.4	30	.19	0	0	0	10	12	.32
30	2.4	28	.18	0	0	0	9.3	12	.30
31	2.1	29	.16	0	0	0	--	--	--
TOTAL	205.3	--	12.13	18.54	--	1.07	61.86	--	2.34

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

40864.70

106809.26

## SACRAMENTO RIVER BASIN

363

11390210 CHEROKEE CANAL NEAR NELSON, CALIF.--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1970	302.00	10.28	7	17
NOVEMBER ...	4075.00	10417.87	946	11400
DECEMBER ...	7670.00	11619.30	1630	13200
JANUARY 1971	3512.00	1287.80	390	1680
FEBRUARY ...	1236.00	181.07	55	236
MARCH .....	2657.00	2606.03	377	2980
APRIL .....	1556.00	33.70	73	107
MAY .....	523.80	6.40	4	10
JUNE .....	384.30	9.93	1	11
JULY .....	304.90	8.88	0	9
AUGUST .....	213.90	6.79	0	7
SEPTEMBER ..	137.33	4.20	0	4
TOTAL .....	22572.23	26192.25	3483	29661

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1971	424.30	7.84	1	9
NOVEMBER ...	543.40	14.76	8	23
DECEMBER ...	1819.00	1140.05	121	1260
JANUARY 1972	1684.00	205.05	111	316
FEBRUARY ...	1141.00	113.08	58	171
MARCH .....	967.00	28.07	22	50
APRIL .....	959.00	77.83	26	104
MAY .....	471.60	13.75	3	17
JUNE .....	250.90	9.94	0	10
JULY .....	36.35	1.50	0	1
AUGUST .....	0.0	0.0	0	0
SEPTEMBER ..	12.38	0.32	0	0
TOTAL .....	8308.93	1612.19	350	1961

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1972	809.10	13.18	21	34
NOVEMBER ...	2631.40	4937.80	432	5370
DECEMBER ...	4392.00	5778.65	913	6690
JANUARY 1973	14591.00	56469.96	4580	61000
FEBRUARY ...	10768.00	36663.60	2920	39600
MARCH .....	4573.00	2832.90	641	3470
APRIL .....	1792.00	69.01	102	171
MAY .....	678.00	14.82	8	23
JUNE .....	344.50	13.80	0	14
JULY .....	205.30	12.13	0	12
AUGUST .....	18.54	1.07	0	1
SEPTEMBER ..	61.86	2.34	0	2
TOTAL .....	40864.70	106809.26	9617	116387

## SACRAMENTO RIVER BASIN

11390210 CHEROKEE CANAL NEAR NELSON, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
DEC. 17...	1410	5.5	1260	729	2480	40	51	62	72	78	83
JAN. 08...	1820	2.5	128	100	35	--	--	--	--	--	--
09...	1500	8.5	2070	3310	18500	39	49	57	68	79	85
10...	1050	8.0	380	152	156	43	55	66	76	82	85
10...	1500	8.0	322	129	112	--	--	--	--	--	--
12...	1715	11.0	1070	496	1430	--	--	--	--	--	--
13...	1030	11.5	520	212	298	--	--	--	--	--	80
16...	0645	11.0	3660	2890	28600	22	29	37	45	53	61
16...	1600	12.0	1440	1190	4630	24	31	39	48	56	65
18...	1200	9.5	3140	3230	27400	26	31	39	47	54	61
30...	1750	9.5	295	135	108	--	--	--	--	--	--
FEB. 06...	1700	10.0	1670	1930	8700	--	--	--	--	--	60
10...	0840	9.5	748	401	810	--	--	--	--	--	85
27...	2140	12.0	5970	4270	68800	22	28	41	45	52	--
MAR. 14...	0910	7.0	71	11	2.1	--	--	--	--	--	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
DEC. 17...	--	89	--	97	--	100	--	--	--	--
JAN. 08...	99	--	100	--	--	--	--	--	--	--
09...	--	90	--	94	--	100	--	--	--	--
10...	--	87	--	91	--	100	--	--	--	--
10...	82	--	86	--	92	--	100	--	--	--
12...	--	88	--	98	--	100	--	--	--	--
13...	90	--	94	--	98	--	100	--	--	--
16...	--	72	--	88	--	98	--	100	--	--
16...	--	82	--	96	--	100	--	--	--	--
18...	--	71	--	86	--	96	--	100	--	--
30...	94	--	97	--	100	--	--	--	--	--
FEB. 06...	--	76	--	99	--	100	--	--	--	--
10...	--	92	--	99	--	100	--	--	--	--
27...	56	--	62	--	72	--	90	--	93	100
MAR. 14...	98	--	100	--	--	--	--	--	--	--

## SACRAMENTO RIVER BASIN

365

11390500 SACRAMENTO RIVER BELOW WILKINS SLOUGH, NEAR GRIMES, CALIF.

LOCATION.--Lat 39°00'36", long 121°49'25", in NW¼NE¼ sec.2, T.13 N., R.1 E., Colusa County, temperature recorder at gaging station on right bank, 1,200 ft downstream from Wilkins Slough, 5.8 miles southeast of Grimes, and at mile 62.9 upstream from Sacramento.

DRAINAGE AREA.--12,926 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Maximum, 22.0°C June 29; minimum, 5.0°C Dec. 11, 12, Jan. 10-12.

Period of record:

Water temperatures: Maximum, 22.0°C June 23, 1970, June 29, 1973; minimum, 4.0°C Dec. 26, 1968.

REMARKS.--No record Mar. 8 to May 11. Clock stopped May 24 to June 18; range in temperature, 17.0°C to 19.0°C.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.0	11.0	11.0	11.0	10.5	7.0	6.5	8.5	8.0	10.5	10.0
2	17.0	16.5	11.5	11.0	10.5	10.0	7.5	7.0	8.5	8.0	10.5	10.0
3	17.0	17.0	12.0	11.5	10.0	10.0	7.5	7.0	8.5	8.5	10.5	10.0
4	17.5	17.0	13.0	12.0	10.0	9.5	7.5	7.0	9.0	8.5	10.0	9.0
5	17.5	17.0	13.0	13.0	9.5	9.0	7.5	7.0	9.0	8.5	9.5	8.5
6	17.0	17.0	13.0	13.0	9.0	7.5	7.0	6.5	9.5	9.0	10.0	9.0
7	17.0	16.5	13.0	12.5	7.5	7.5	7.0	6.5	9.5	9.0	10.0	9.5
8	17.0	16.5	12.5	12.0	7.5	7.0	7.0	6.0	10.0	9.5	---	---
9	17.0	16.5	12.0	12.0	7.0	6.0	6.0	6.0	10.0	10.0	---	---
10	16.5	16.5	12.0	11.5	6.0	5.5	6.0	5.0	10.0	10.0	---	---
11	16.5	16.0	11.5	11.5	5.5	5.0	5.0	5.0	10.0	9.5	---	---
12	16.0	15.0	11.5	11.0	5.5	5.0	6.5	5.0	9.5	9.5	---	---
13	15.0	14.5	11.0	11.0	6.0	5.5	7.0	6.5	9.5	9.5	---	---
14	15.0	14.5	11.0	10.5	6.5	5.5	8.5	7.0	9.5	9.0	---	---
15	15.0	14.5	11.0	10.5	6.5	6.0	8.5	8.5	9.0	9.0	---	---
16	15.0	14.5	10.5	10.5	6.5	6.0	9.0	8.5	9.5	9.0	---	---
17	14.5	14.0	11.0	10.0	7.0	6.5	10.0	9.0	9.5	9.0	---	---
18	15.0	14.5	11.0	10.5	7.5	6.5	9.5	9.0	9.5	9.5	---	---
19	15.0	15.0	11.0	10.5	6.5	5.5	9.5	9.0	9.5	9.0	---	---
20	15.0	14.5	11.0	10.5	7.5	6.0	9.0	8.5	10.0	9.5	---	---
21	15.0	15.0	11.5	11.0	8.5	7.5	8.5	8.5	10.0	9.0	---	---
22	15.5	15.0	11.0	10.5	10.0	8.5	8.5	8.0	10.0	9.5	---	---
23	15.5	15.0	11.0	10.5	10.5	10.0	9.0	8.5	10.0	10.0	---	---
24	15.5	15.0	11.0	10.5	10.5	9.5	9.0	8.5	10.5	10.0	---	---
25	15.0	14.0	10.5	10.0	10.0	9.0	9.0	8.5	10.5	10.0	---	---
26	14.5	14.0	11.0	10.0	9.5	9.0	9.0	8.0	10.5	10.5	---	---
27	14.0	13.5	10.5	10.5	9.0	9.0	8.5	8.0	10.5	10.0	---	---
28	14.0	13.5	11.0	10.5	9.0	7.5	8.0	7.5	10.0	9.5	---	---
29	13.5	12.5	11.0	10.5	7.5	7.5	8.0	8.0	---	---	---	---
30	12.5	11.0	11.0	10.5	7.5	7.0	8.0	8.0	---	---	---	---
31	11.0	10.5	---	---	7.0	6.5	8.5	8.0	---	---	---	---
MONTH	17.5	10.5	13.0	10.0	11.0	5.0	10.0	5.0	10.5	8.0	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	21.0	20.5	20.0	19.0	18.0	17.5
2	---	---	---	---	---	---	21.0	20.0	20.0	19.0	18.0	17.0
3	---	---	---	---	---	---	20.5	19.5	19.5	19.0	17.5	17.0
4	---	---	---	---	---	---	20.0	20.0	20.0	19.0	18.0	17.0
5	---	---	---	---	---	---	20.0	19.5	20.0	19.5	18.0	18.0
6	---	---	---	---	---	---	20.0	19.5	20.0	19.5	18.0	18.0
7	---	---	---	---	---	---	20.5	19.5	20.0	19.5	18.0	18.0
8	---	---	---	---	---	---	20.0	19.5	20.0	19.5	18.0	17.5
9	---	---	---	---	---	---	20.5	20.0	20.0	19.5	17.5	17.0
10	---	---	---	---	---	---	20.0	19.5	19.5	19.0	18.0	17.5
11	---	---	---	---	---	---	20.0	19.5	20.0	19.5	18.5	18.0
12	---	---	18.0	17.5	---	---	20.0	19.5	20.0	19.5	18.5	18.0
13	---	---	18.5	18.0	---	---	19.5	19.0	20.0	19.5	18.5	18.0
14	---	---	19.0	18.5	---	---	19.5	18.5	19.5	19.5	18.5	18.0
15	---	---	19.0	18.5	---	---	19.5	19.0	20.0	19.5	18.0	17.5
16	---	---	20.0	19.0	---	---	19.5	19.0	20.0	19.0	18.0	17.5
17	---	---	20.5	19.5	---	---	19.5	19.0	19.5	19.0	18.0	17.0
18	---	---	20.5	20.0	---	---	20.0	19.0	19.5	19.0	18.5	18.0
19	---	---	20.5	20.0	19.0	18.5	20.0	19.0	19.5	18.5	18.5	18.5
20	---	---	20.0	19.0	19.5	18.5	20.0	19.0	19.0	18.0	19.0	18.5
21	---	---	19.0	18.5	20.0	19.5	19.5	19.0	18.0	18.0	18.5	18.0
22	---	---	19.0	18.5	20.5	20.0	19.5	18.5	18.0	17.5	18.0	17.5
23	---	---	19.0	18.5	20.0	18.5	19.5	18.5	18.0	17.0	17.5	16.5
24	---	---	---	---	19.0	18.5	19.0	18.5	17.5	17.0	17.0	16.5
25	---	---	---	---	19.5	19.0	19.0	18.5	17.5	17.0	17.0	16.5
26	---	---	---	---	20.0	19.5	19.5	18.5	17.5	17.0	16.5	16.0
27	---	---	---	---	21.0	20.0	19.5	19.0	17.5	17.0	16.5	16.0
28	---	---	---	---	21.5	21.0	20.0	19.0	17.5	17.0	16.5	16.0
29	---	---	---	---	22.0	21.5	20.0	19.5	18.0	17.0	16.5	16.0
30	---	---	---	---	21.5	21.0	20.0	19.5	18.0	17.5	16.5	16.0
31	---	---	---	---	---	---	20.0	19.5	18.0	17.5	---	---
MONTH	---	---	---	---	---	---	21.0	18.5	20.0	17.0	19.0	16.0

## SACRAMENTO RIVER BASIN

11390650 SACRAMENTO RIVER ABOVE COLUSA TROUGH, AT KNIGHTS LANDING, CALIF.

LOCATION.--Lat 38°48'18", long 121°43'22", in NW¼ sec.14, T.11 N., R.2 E., Yolo County, on right bank, 0.25 mile upstream from Colusa Drain, 0.35 mile upstream from State Highway 24 bridge at Knights Landing, and approximately 0.3 mile upstream from gaging station at railroad bridge.

PERIOD OF RECORD.--Chemical analyses: July 1960 to September 1973.

REMARKS.--Records of discharge given for Sacramento River at Knights Landing (sta 11391000). Chemical-quality records furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CA CO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT. 18...	1215	9720	--	--	--	--	--	--	--	--
NOV. 14...	1205	13600	--	--	7.5	--	63	0	52	--
DEC. 21...	1245	27100	8.5	3.8	4.8	1.6	46	0	38	6.1
JAN. 23...	1340	28300	--	--	--	--	--	--	--	--
FEB. 22...	1250	25400	--	--	--	--	--	--	--	--
MAR. 27...	1315	16400	--	--	--	--	--	--	--	--
APR. 17...	1300	11800	--	--	--	--	--	--	--	--
MAY 09...	1345	7380	--	--	--	--	--	--	--	--
JUNE 26...	1255	7430	--	--	--	--	--	--	--	--
JULY 25...	1225	8940	--	--	7.3	--	70	0	57	--
AUG. 14...	1200	7220	--	--	--	--	--	--	--	--
SEP. 26...	1240	10500	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
OCT. 18...	--	.14	.10	.05	.03	--	--	--	--
NOV. 14...	4.2	.21	.30	.10	.04	--	--	50	0
DEC. 21...	2.4	.24	.60	.24	.04	71	.10	37	0
JAN. 23...	--	.19	.30	.18	.06	--	--	--	--
FEB. 22...	--	.22	.10	.06	.03	--	--	--	--
MAR. 27...	--	.32	.10	.08	.07	--	--	--	--
APR. 17...	--	.21	.20	.05	.01	--	--	--	--
MAY 09...	--	.12	.20	.05	.02	--	--	--	--
JUNE 26...	--	.12	.20	.04	.02	--	--	--	--
JULY 25...	4.5	.08	.20	.05	.02	--	--	55	0
AUG. 14...	--	.06	.20	.05	.05	--	--	--	--
SEP. 26...	--	.10	.20	.05	.01	--	--	--	--



## SACRAMENTO RIVER BASIN

367

11390650 SACRAMENTO RIVER ABOVE COLUSA TROUGH, AT KNIGHTS LANDING, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTL)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT. 18...	--	--	125	7.4	15.5	9	9.9	--	--
NOV. 14...	--	.5	141	7.4	10.0	20	10.3	100	.0
DEC. 21...	21	.3	101	7.2	8.0	160	11.0	0	--
JAN. 23...	--	--	155	7.3	7.0	58	11.6	--	--
FEB. 22...	--	--	162	7.4	10.0	32	10.8	--	--
MAR. 27...	--	--	182	7.6	14.0	27	8.5	--	--
APR. 17...	--	--	161	7.3	16.0	22	9.2	--	--
MAY 09...	--	--	148	7.4	19.0	10	9.1	--	--
JUNE 26...	--	--	148	7.8	21.5	9	9.2	--	--
JULY 25...	--	.4	142	7.7	20.5	5	10.2	0	--
AUG. 14...	--	--	169	7.7	21.5	9	10.4	--	--
SEP. 26...	--	--	125	7.6	18.0	7	11.7	--	--

## SACRAMENTO RIVER BASIN

11390700 COLUSA TROUGH NEAR COLUSA, CALIF.

LOCATION.--Lat 39°11'43", long 122°03'34", in SE¼NE¼ sec.34, T.15 N., R.2 W., Colusa County, at gaging station 3 miles west of Colusa, on State Highway 20, and 6 miles northeast of Williams.

PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), October 1953 to September 1973.

REMARKS.--Records furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED CHLOR- IDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
OCT.											
18...	0815	370	112	259	0	212	68	--	--	--	--
NOV.											
14...	0930	1880	82	158	0	130	47	.90	1.6	.48	.23
DEC.											
21...	0905	1160	--	--	--	--	--	--	--	--	--
JAN.											
23...	1045	4330	45	113	0	93	31	--	--	--	--
FEB.											
22...	0930	1540	--	--	--	--	--	--	--	--	--
MAR.											
27...	0945	650	106	324	0	266	61	--	--	--	--
APR.											
17...	0930	360	--	--	--	--	--	--	--	--	--
MAY											
09...	1025	504	--	--	--	--	--	--	--	--	--
JUNE											
26...	0835	680	--	--	--	--	--	--	--	--	--
JULY											
25...	0910	660	--	--	--	--	--	--	--	--	--
AUG.											
14...	0830	830	--	--	--	--	--	--	--	--	--
SEP.											
26...	0900	580	--	--	--	--	--	--	--	--	--

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
18...	215	3	3.3	833	7.6	16.0	21	8.0	400	--
NOV.										
14...	135	5	3.1	674	7.5	10.0	230	9.0	300	.0
DEC.										
21...	--	--	--	712	7.6	11.0	150	9.8	--	--
JAN.										
23...	98	5	2.0	377	7.3	6.5	150	8.5	100	--
FEB.										
22...	--	--	--	715	7.8	12.0	180	9.1	--	--
MAR.										
27...	283	17	2.7	964	8.1	15.0	40	8.0	200	--
APR.										
17...	--	--	--	639	8.0	15.0	50	8.5	--	--
MAY										
09...	--	--	--	465	7.6	20.0	55	6.7	--	--
JUNE										
26...	--	--	--	514	8.0	26.0	20	5.7	--	--
JULY										
25...	--	--	--	535	7.5	24.5	15	7.7	--	--
AUG.										
14...	--	--	--	525	7.4	23.0	15	7.9	--	--
SEP.										
26...	--	--	--	562	7.8	16.0	30	10.5	--	--

## SACRAMENTO RIVER BASIN

369

## 11392500 MIDDLE FORK FEATHER RIVER NEAR CLIO, CALIF.

LOCATION.--Lat 39°45'14", long 120°35'42", in NW¼SE¼ sec.23, T.22 N., R.12 E., Plumas County, temperature recorder at gaging station on left bank, 0.6 mile upstream from Frazier Creek, 1.0 mile northwest of Clio, and 2.2 miles southeast of Blairsden.

DRAINAGE AREA.--686 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Maximum, 26.0°C June 28; minimum, freezing point probably sometime in December during period of missing record, and Jan. 30.

Period of record:

Water temperatures: Maximum, 26.5°C July 15-17, 1972; minimum (1963-66, 1968-73), freezing point on many days in 1963, 1969, 1971-73.

REMARKS.--No record Oct. 1-14, Nov. 20 to Dec. 18.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	3.5	2.5	---	---	1.0	1.0	1.0	0.5	2.0	2.0
2	---	---	6.5	3.5	---	---	1.0	0.5	1.5	0.5	2.5	2.0
3	---	---	7.0	4.5	---	---	0.5	0.5	1.5	0.5	3.0	2.5
4	---	---	7.5	5.5	---	---	0.5	0.5	1.5	0.5	3.0	1.0
5	---	---	7.5	5.5	---	---	0.5	0.5	2.5	1.5	4.5	3.0
6	---	---	6.0	5.0	---	---	0.5	0.5	2.0	1.5	4.0	4.0
7	---	---	5.5	5.5	---	---	0.5	0.5	2.5	2.0	4.0	3.5
8	---	---	5.5	4.5	---	---	0.5	0.5	2.5	2.0	4.5	4.0
9	---	---	5.5	4.0	---	---	0.5	0.5	2.5	2.0	5.0	3.5
10	---	---	4.5	4.0	---	---	0.5	0.5	2.0	0.5	5.5	4.5
11	---	---	4.0	3.5	---	---	0.5	0.5	2.0	0.5	5.0	3.5
12	---	---	3.5	3.5	---	---	1.0	0.5	2.0	1.0	5.0	3.5
13	---	---	4.0	3.5	---	---	2.5	1.0	2.5	1.0	4.5	4.0
14	---	---	4.0	3.5	---	---	1.5	0.5	2.5	1.5	4.5	3.5
15	8.5	8.5	4.5	3.5	---	---	1.5	1.0	3.5	2.0	6.0	3.5
16	8.5	8.5	5.0	3.0	---	---	1.5	1.5	4.0	2.0	6.5	4.0
17	8.0	8.0	5.0	4.0	---	---	2.0	1.5	4.0	2.5	6.5	5.0
18	9.0	8.0	5.0	3.5	---	---	2.0	2.0	3.5	2.0	6.5	4.5
19	9.0	9.0	4.5	3.5	2.0	1.0	2.5	2.0	3.5	2.0	6.0	5.0
20	10.0	8.0	---	---	2.5	1.5	2.0	1.0	4.0	2.0	5.5	5.0
21	10.0	10.0	---	---	2.5	1.5	1.5	1.0	4.5	3.5	6.0	5.0
22	10.0	10.0	---	---	2.5	1.5	1.5	1.0	4.5	4.5	8.0	4.5
23	10.0	10.0	---	---	1.5	1.0	1.0	1.0	4.5	4.5	8.0	5.0
24	10.0	9.0	---	---	2.0	1.5	1.0	1.0	4.5	4.5	9.5	6.0
25	9.0	9.0	---	---	2.0	1.0	2.0	1.0	4.5	4.5	10.0	7.0
26	10.0	6.5	---	---	2.0	1.0	1.5	1.0	4.5	4.5	11.0	7.0
27	8.0	5.5	---	---	2.0	1.5	1.0	1.0	4.5	2.0	10.0	8.0
28	5.5	5.5	---	---	1.5	1.0	1.5	1.0	2.0	1.5	8.5	6.5
29	5.5	5.0	---	---	1.0	1.0	1.5	1.0	---	---	7.0	5.5
30	5.0	2.5	---	---	1.0	1.0	1.5	0.0	---	---	7.5	6.0
31	2.5	2.5	---	---	1.0	1.0	2.0	0.5	---	---	8.5	6.0
MONTH	---	---	---	---	---	---	2.5	0.0	4.5	0.5	11.0	2.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	5.5	15.0	9.5	20.0	12.5	22.5	15.0	24.5	19.0	19.5	15.0
2	8.5	5.0	15.0	10.5	20.0	13.0	23.0	15.5	24.5	19.0	19.0	14.0
3	9.0	5.5	15.5	10.0	20.5	13.5	23.0	15.5	23.0	18.5	20.0	14.0
4	11.0	6.5	12.5	10.0	21.0	13.5	24.5	16.5	23.5	18.0	20.0	14.0
5	12.0	7.5	11.0	9.0	22.0	15.0	24.5	17.0	23.0	17.5	19.5	14.5
6	13.0	8.0	14.0	8.5	22.5	15.5	23.0	16.5	23.0	17.5	19.0	14.0
7	12.0	8.0	15.5	10.5	23.0	16.0	23.5	16.0	22.5	17.0	18.5	14.0
8	12.0	7.0	17.0	11.5	24.0	17.0	24.0	16.0	22.5	16.5	17.5	13.0
9	12.0	8.0	17.5	11.5	23.5	17.0	25.0	17.0	22.5	17.0	18.5	13.0
10	13.5	8.5	19.0	12.0	22.5	16.5	24.5	17.5	22.5	16.0	19.0	14.0
11	13.5	8.5	20.0	12.5	23.0	16.5	25.0	17.5	23.0	17.0	20.0	14.5
12	13.0	9.0	21.0	12.5	21.0	16.0	24.0	17.0	23.0	17.5	19.5	15.0
13	12.0	8.5	19.5	13.0	21.0	16.0	23.5	18.5	22.0	16.5	19.0	15.0
14	13.0	8.0	19.5	13.0	17.5	13.5	24.0	17.5	22.5	16.5	18.5	14.0
15	10.5	8.5	17.5	11.5	19.0	12.0	24.5	18.5	22.5	17.0	17.0	12.5
16	10.5	7.5	19.0	11.0	18.0	12.5	22.0	18.5	22.0	16.5	17.0	12.0
17	11.0	8.0	20.0	11.5	19.0	11.5	23.5	16.5	20.5	15.5	16.5	12.0
18	11.0	7.0	18.0	12.0	20.0	11.5	24.5	18.0	20.0	15.0	16.5	12.0
19	11.0	7.0	18.5	12.0	21.0	13.0	24.0	18.0	20.5	15.0	17.0	13.0
20	10.0	6.5	18.5	11.5	22.5	15.0	23.0	17.0	20.5	15.0	17.0	13.5
21	12.0	6.5	19.5	11.5	23.0	16.0	21.0	16.5	21.0	16.0	16.5	12.0
22	13.5	7.5	19.5	12.0	21.0	16.5	22.0	15.5	19.5	15.0	15.5	12.0
23	15.5	9.0	19.5	12.0	18.0	15.0	22.0	15.5	18.0	13.5	16.0	12.0
24	15.5	10.0	16.5	13.0	21.0	13.5	22.5	15.5	16.5	13.0	16.0	12.0
25	16.5	10.0	15.5	11.5	23.0	15.0	24.0	16.5	17.5	14.5	15.0	11.0
26	17.0	10.0	17.5	10.0	25.0	17.0	24.0	18.0	19.0	14.0	15.0	10.5
27	16.5	10.0	19.5	11.0	25.0	18.5	23.5	17.5	20.5	14.5	15.5	10.0
28	16.0	9.0	21.0	12.5	26.0	19.0	23.5	18.0	21.0	15.0	16.5	11.0
29	15.5	10.0	22.0	13.5	25.0	19.0	23.5	17.5	21.0	14.5	16.0	11.5
30	14.5	9.0	19.5	16.0	22.5	16.5	24.0	18.0	20.5	15.0	15.0	11.0
31	---	---	16.0	14.0	---	---	24.0	18.0	20.0	16.0	---	---
MONTH	17.0	5.0	22.0	8.5	26.0	11.5	25.0	15.0	24.5	13.0	20.0	10.0

## SACRAMENTO RIVER BASIN

11394500 MIDDLE FORK FEATHER RIVER NEAR MERRIMAC, CALIF.

LOCATION.--Lat 39°42'30", long 121°16'10", in NW¼ sec. 2, T. 21 N., R. 6 E., Butte County, Plumas National Forest, temperature recorder at gaging station, 400 ft downstream from bridge on Milsap Bar Road, 500 ft downstream from Little North Fork, 4.5 miles southeast of Merrimac, and 20 miles northeast of Oroville.

DRAINAGE AREA.--1,062 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1963 to June 1966, May 1970 to September 1971, water year 1972 (partial-record station).

Water temperatures: October 1962 to September 1973.

Sediment records: Water years 1970-72 (partial-record station).

EXTREMES, 1972-73:

Water temperatures: Maximum, 22.5°C July 29-31; minimum, 1.5°C Dec. 6-8.

Period of record:

Water temperatures: Maximum (1964-73), 24.0°C Aug. 3, 1966, July 17, 18, 1972; minimum (1962-64, 1965-73), 0.5°C on several days in 1966-68, 1970, and 1972.

REMARKS.--Clock stopped June 28 to July 3; range in temperature, 17.0°C to 20.0°C.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	14.5	7.0	6.5	5.0	4.5	4.0	3.5	5.0	5.0	5.5	5.5
2	16.0	14.5	9.0	7.0	5.0	4.5	4.0	4.0	5.0	4.5	5.5	5.5
3	16.0	15.0	9.5	8.5	5.0	4.5	4.0	4.0	4.5	4.5	5.5	5.5
4	16.0	15.0	10.5	9.5	5.0	3.5	4.0	3.0	4.5	4.5	5.5	5.5
5	16.0	15.0	10.5	10.0	3.5	2.5	3.0	2.5	5.5	4.5	5.5	5.5
6	16.0	15.0	10.0	9.5	2.5	1.5	3.0	2.5	5.5	5.5	5.5	5.5
7	15.0	15.0	9.5	9.0	2.5	1.5	3.0	2.5	5.5	5.5	6.0	5.5
8	15.0	15.0	9.0	8.5	4.0	1.5	2.5	2.5	6.0	5.5	6.5	6.0
9	15.0	15.0	9.0	8.5	4.5	2.0	3.0	2.0	5.5	5.5	6.5	6.5
10	15.0	14.0	8.5	8.5	5.0	2.0	3.5	3.0	5.5	4.5	6.5	6.5
11	14.0	13.0	9.0	8.0	6.0	2.0	4.5	3.5	5.0	4.5	6.5	6.0
12	13.0	12.0	8.0	7.5	2.5	2.0	5.0	4.5	5.0	4.5	6.0	6.0
13	13.0	12.0	7.5	7.5	2.5	2.0	6.0	5.0	5.0	4.5	6.5	5.5
14	13.0	13.0	7.5	7.5	2.0	2.0	6.0	5.5	5.0	5.0	5.5	5.0
15	13.0	12.5	7.5	7.5	2.0	2.0	5.5	5.5	5.0	5.0	5.5	4.5
16	12.5	12.0	8.0	7.5	2.5	2.0	6.0	5.5	5.0	5.0	6.0	5.0
17	12.5	12.0	7.5	7.0	3.5	2.5	6.0	5.5	5.0	5.0	6.0	5.5
18	12.0	11.5	7.0	7.0	5.0	3.5	6.0	5.5	5.0	4.5	6.0	5.5
19	11.5	11.0	7.5	7.0	6.0	4.5	5.5	5.0	4.5	4.0	6.5	6.0
20	12.0	11.5	7.5	7.0	7.0	6.0	5.0	4.5	4.5	4.0	6.0	6.0
21	12.0	11.5	7.0	7.0	7.5	7.0	4.5	4.0	4.5	4.0	6.0	5.5
22	11.5	11.0	7.0	6.0	8.0	7.5	4.5	4.0	5.0	4.5	6.0	5.5
23	12.0	11.5	6.0	5.5	7.5	7.0	4.0	3.5	5.0	5.0	6.5	6.0
24	11.5	10.5	5.5	5.0	7.0	7.0	4.0	4.0	5.5	5.0	7.0	6.0
25	11.0	10.5	5.5	5.0	7.0	6.0	4.0	4.0	6.0	5.5	7.5	7.0
26	10.5	10.0	5.5	5.0	6.0	6.0	4.0	4.0	6.0	5.5	8.0	7.5
27	10.0	9.5	5.5	5.0	6.0	5.5	4.0	4.0	5.5	5.0	8.0	7.5
28	9.5	9.0	5.5	5.0	6.0	5.0	4.0	3.5	5.5	5.0	7.5	6.5
29	9.0	7.5	5.5	5.0	5.0	4.0	4.0	3.5	---	---	6.5	6.0
30	7.5	6.5	5.5	5.0	4.0	4.0	4.0	3.5	---	---	6.0	6.0
31	7.0	6.5	---	---	4.0	3.5	5.0	4.0	---	---	7.0	6.0
MONTH	16.0	6.5	10.5	5.0	8.0	1.5	6.0	2.0	6.0	4.0	8.0	4.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.5	9.5	8.5	13.0	11.0	---	---	22.0	20.5	18.0	16.5
2	7.0	6.0	10.0	9.0	14.0	13.0	---	---	22.0	20.0	17.5	15.5
3	7.5	6.5	10.0	9.5	14.0	13.0	---	---	21.5	20.0	18.0	15.5
4	8.0	7.0	10.0	8.0	14.5	13.0	18.5	17.0	21.5	19.5	18.0	16.0
5	9.0	8.0	8.5	7.5	15.5	14.0	19.0	17.5	21.5	19.5	18.5	16.0
6	9.0	8.0	10.0	8.0	15.5	15.0	19.0	18.0	21.5	19.5	18.5	16.5
7	9.0	8.0	10.5	10.0	16.0	15.0	19.0	17.5	21.5	19.5	18.5	16.5
8	8.5	7.0	11.0	10.0	17.0	15.5	19.0	17.5	21.0	19.5	17.0	15.0
9	9.0	8.0	11.0	10.5	17.5	16.0	19.5	18.0	21.0	19.0	17.5	15.0
10	9.0	8.0	11.0	10.0	17.0	16.0	20.5	18.5	21.0	19.0	18.0	15.5
11	9.0	8.0	11.0	10.5	16.5	15.5	20.0	19.0	21.5	19.0	18.5	16.0
12	9.0	8.5	11.0	10.5	16.5	15.5	20.0	18.5	22.0	19.5	18.5	16.5
13	9.0	8.0	11.0	10.5	16.5	16.0	20.0	18.5	21.5	19.5	18.5	17.0
14	9.0	8.0	11.0	10.0	16.0	14.5	20.5	19.0	21.0	19.0	18.0	16.5
15	9.0	8.5	11.0	10.0	15.0	13.0	21.0	19.5	21.5	18.5	17.0	15.5
16	8.5	8.0	11.0	10.0	13.5	13.0	21.5	20.0	21.0	18.5	16.5	15.0
17	8.5	8.5	11.0	10.5	13.5	12.5	21.5	20.5	20.5	18.0	16.0	14.5
18	8.5	7.5	11.5	11.0	14.0	12.5	21.5	20.0	20.0	17.5	16.0	14.5
19	8.0	7.5	11.0	10.5	15.0	13.5	21.0	20.0	19.0	17.0	16.0	15.0
20	8.0	7.5	11.0	10.5	16.5	14.5	20.5	19.5	19.0	16.5	16.0	15.0
21	8.5	7.5	11.5	11.0	17.5	15.5	20.0	19.0	19.0	17.0	15.5	14.5
22	9.5	8.5	12.0	11.0	17.0	16.5	20.0	18.5	19.0	16.5	15.0	14.0
23	10.0	8.0	12.0	11.5	16.5	15.0	19.5	18.0	18.0	16.5	14.0	13.5
24	10.0	9.5	12.0	11.0	15.5	14.0	19.5	18.0	17.0	15.5	14.0	13.5
25	10.0	9.0	11.0	10.5	17.0	15.0	20.0	18.0	17.0	15.5	14.0	13.0
26	10.0	9.5	11.0	10.5	19.0	16.5	21.0	19.0	16.5	15.5	14.0	12.0
27	10.0	9.5	12.0	10.5	19.5	18.5	22.0	20.5	17.5	15.5	14.0	12.5
28	10.0	9.0	13.0	12.0	---	---	22.0	20.5	18.0	16.0	14.0	12.5
29	9.5	9.0	14.0	13.0	---	---	22.5	20.5	18.5	16.5	15.0	13.0
30	9.0	8.5	14.0	14.0	---	---	22.5	20.5	19.0	17.0	14.5	13.0
31	---	---	14.0	12.0	---	---	22.5	20.5	19.0	17.0	---	---
MONTH	10.0	6.0	14.0	7.5	19.5	11.0	22.5	17.0	22.0	15.5	18.5	12.0

## SACRAMENTO RIVER BASIN

371

## 11401180 LITTLE GRIZZLY CREEK NEAR GENESEE, CALIF.

LOCATION.--Lat 40°00'50", long 120°45'11", in NE¼SW¼ sec.21, T.25 N., R.11 E., Plumas County, Plumas National Forest, temperature recorder at gaging station on right bank, 2.5 miles upstream from Indian Creek, and 2 miles south of Genesee.

DRAINAGE AREA.--29.6 sq mi.

PERIOD OF RECORD.--Water temperatures: August 1964 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 21.5°C July 31, Aug. 1; minimum, freezing point on many days during December to February.

Period of record:

Water temperatures: Maximum, 21.5°C July 31, Aug. 1, 1973; minimum, freezing point on many days during winter period of most years.

REMARKS.--Recorder malfunction Dec. 4-16. Clock stopped Apr. 29 to May 15; range in temperature, 5.5°C to 11.0°C. No record July 24.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.0	4.5	4.0	2.5	1.0	0.5	0.0	0.5	0.0	2.0	1.5
2	10.5	9.5	4.5	4.0	2.5	1.0	0.5	0.0	0.5	0.5	1.5	1.0
3	10.0	9.0	5.0	4.0	2.5	1.5	0.5	0.0	0.5	0.0	1.5	1.0
4	10.0	9.0	4.5	3.0	---	---	0.5	0.0	1.0	0.5	1.5	1.5
5	10.0	9.0	4.5	4.5	---	---	1.5	0.5	1.0	1.0	2.0	1.0
6	10.0	9.0	4.5	4.0	---	---	1.5	0.5	1.0	0.5	2.0	1.5
7	9.5	8.5	4.5	4.5	---	---	2.0	0.5	1.0	1.0	2.5	2.0
8	9.5	8.5	4.5	4.0	---	---	1.0	0.5	1.0	1.0	2.5	2.0
9	9.5	9.5	4.0	4.0	---	---	1.0	0.0	1.0	0.0	3.0	2.5
10	9.5	9.5	4.0	4.0	---	---	0.5	0.0	0.0	0.0	3.0	2.5
11	9.5	9.0	4.0	4.0	---	---	1.0	0.0	0.0	0.0	3.0	2.5
12	9.0	8.5	4.5	3.5	---	---	0.5	0.0	0.5	0.0	3.0	2.5
13	9.0	8.5	3.5	3.0	---	---	1.0	0.5	0.5	0.0	3.0	2.5
14	9.0	8.5	3.5	3.0	---	---	2.5	0.0	0.5	0.5	3.0	2.5
15	8.5	7.5	3.5	3.5	---	---	2.5	0.0	1.0	0.0	3.0	2.0
16	8.0	7.5	3.5	3.0	---	---	1.5	0.5	0.5	0.0	3.0	2.5
17	8.5	7.5	3.0	2.5	0.5	0.0	1.5	1.0	1.0	0.5	3.5	3.0
18	8.5	7.5	2.5	2.5	1.0	0.0	1.0	0.5	1.0	0.0	4.0	3.5
19	7.5	7.0	3.0	2.5	1.5	1.0	1.0	0.5	1.0	0.0	4.0	3.5
20	7.0	6.5	3.0	2.5	1.5	1.5	0.5	0.0	1.0	0.5	4.0	4.0
21	7.0	6.0	3.0	2.5	2.0	1.5	1.0	0.5	1.5	0.5	4.0	4.0
22	7.0	6.0	3.5	2.5	2.0	1.5	1.0	0.5	1.5	0.5	4.0	4.0
23	6.5	5.5	4.5	2.5	2.0	1.5	1.5	0.5	1.5	0.5	4.0	3.5
24	6.5	5.5	2.5	2.5	2.0	1.5	1.5	0.5	1.5	1.0	4.0	3.0
25	6.0	5.0	3.0	2.5	1.5	0.5	0.5	0.5	1.5	1.0	4.5	4.0
26	6.0	5.5	2.5	2.5	1.5	1.0	0.5	0.0	1.5	1.0	4.5	3.5
27	5.5	4.5	2.5	2.0	1.5	1.0	0.0	0.0	1.5	1.0	4.0	3.5
28	5.0	4.5	2.5	2.0	1.0	0.0	0.0	0.0	2.0	1.0	4.5	4.0
29	5.0	4.5	2.0	1.5	0.5	0.0	0.5	0.0	---	---	4.5	4.0
30	4.5	4.0	2.0	1.5	0.0	0.0	0.0	0.0	---	---	4.5	4.5
31	4.0	3.5	---	---	0.0	0.0	0.5	0.0	---	---	5.0	4.5
MONTH	10.5	3.5	5.0	1.5	---	---	2.5	0.0	2.0	0.0	5.0	1.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.0	4.5	---	---	13.5	9.0	15.5	11.0	21.5	14.0	13.0	10.0
2	5.0	4.5	---	---	13.0	8.5	16.0	11.0	21.0	14.0	13.0	7.5
3	5.5	5.0	---	---	13.5	9.0	16.0	11.0	17.5	12.5	14.0	8.5
4	5.5	5.0	---	---	13.5	9.0	17.0	12.0	20.0	13.0	15.5	9.5
5	5.5	5.0	---	---	15.0	10.0	17.5	13.0	19.0	12.5	14.5	10.0
6	6.0	5.0	---	---	14.5	10.0	16.5	12.5	19.0	13.0	14.0	9.5
7	5.5	5.0	---	---	15.5	10.5	16.5	11.5	18.0	12.0	13.5	10.0
8	6.0	5.0	---	---	16.0	12.0	17.0	12.5	18.0	11.5	12.5	8.5
9	6.5	5.5	---	---	16.0	12.0	17.5	13.0	18.0	12.5	13.0	9.0
10	6.5	5.5	---	---	15.5	11.5	18.0	13.0	17.5	11.5	13.5	9.5
11	6.0	5.0	---	---	15.5	11.5	18.0	13.5	17.5	12.0	14.0	10.0
12	6.5	5.5	---	---	14.5	11.0	16.5	13.0	19.5	11.5	15.5	10.5
13	6.5	5.5	---	---	14.0	11.0	17.0	14.0	16.5	11.0	14.0	10.0
14	7.0	5.5	---	---	11.0	9.0	16.5	13.0	17.0	11.0	13.0	9.5
15	7.0	6.5	---	---	11.5	8.5	17.0	13.5	17.5	11.5	12.0	8.5
16	7.5	6.5	10.5	7.0	12.0	9.5	17.5	14.0	18.5	11.5	12.0	8.0
17	7.5	6.5	10.5	7.5	12.0	8.5	17.0	13.0	16.0	10.5	11.5	7.5
18	8.0	6.0	11.0	7.5	13.0	8.0	17.0	13.0	16.0	9.5	12.0	9.0
19	8.0	6.5	11.5	7.5	14.0	9.5	16.5	13.0	15.5	9.5	12.5	9.5
20	8.5	7.0	11.5	7.0	15.5	10.5	16.0	12.5	15.5	10.0	12.0	10.5
21	9.0	7.0	11.5	7.5	15.5	11.5	15.0	12.0	16.5	11.0	11.5	8.0
22	10.0	8.0	12.0	7.5	15.0	12.0	14.5	10.5	14.5	10.0	10.0	8.0
23	10.0	8.0	12.0	7.5	13.0	10.5	14.5	10.5	12.5	8.5	10.5	8.0
24	9.5	8.0	10.0	9.0	15.0	10.5	---	---	13.0	8.5	10.5	8.5
25	10.0	8.0	10.5	8.0	16.5	11.5	20.0	15.5	12.5	10.5	10.0	7.0
26	9.5	8.0	11.5	7.0	17.5	13.0	19.5	12.5	13.0	9.5	10.0	6.5
27	9.5	8.0	13.0	7.5	18.0	13.5	21.0	12.5	14.5	10.0	10.0	6.5
28	9.5	7.5	13.5	9.0	18.5	14.0	18.5	13.5	15.0	10.0	10.0	7.0
29	---	---	14.0	9.5	17.0	13.5	18.0	12.5	17.0	10.0	10.5	7.0
30	---	---	13.0	10.5	16.0	11.5	18.0	13.0	15.0	11.0	10.0	7.0
31	---	---	11.5	10.0	---	---	21.5	12.5	15.0	11.5	---	---
MONTH	10.0	4.5	---	---	18.5	8.0	21.5	10.5	21.5	8.5	15.5	6.5

## SACRAMENTO RIVER BASIN

11401500 INDIAN CREEK NEAR CRESCENT MILLS, CALIF.

LOCATION:--Lat 40°04'42", long 120°55'36", in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.25, T.26 N., R.9 E., Plumas County, temperature recorder at gaging station on left bank, 0.8 mile upstream from Dixie Creek, and 1.5 miles south of Crescent Mills.

DRAINAGE AREA.--739 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-58 (partial-record station), October 1958 to September 1963, water years 1964-66, 1972 (partial-record station).

Water temperatures: October 1962 to September 1973.

Sediment records: Water years 1957-66 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 24.5°C June 28, July 25, 26; minimum, 0.5°C Dec. 29 to Jan. 1.

Period of record:

Water temperatures (1962-65, 1966-73): Maximum, 28.0°C July 26-28, 1963; minimum (1962-64, 1966-73), freezing point on many days during most years.

REMARKS.--Clock stopped Oct. 12 to Nov. 21; range in temperature, 4.0°C to 7.0°C. Recorder malfunction Dec. 1-18, Apr. 12-23, Sept. 17-30.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	12.0	---	---	---	---	2.5	0.5	5.0	2.5	7.5	5.5
2	16.0	10.5	---	---	---	---	2.5	1.0	4.0	3.0	8.0	5.0
3	16.0	10.0	---	---	---	---	3.0	1.5	4.0	3.5	7.0	4.5
4	15.5	10.5	---	---	---	---	2.5	1.0	4.0	2.0	7.0	4.5
5	16.0	11.5	---	---	---	---	2.0	1.0	5.0	3.5	7.5	4.0
6	14.5	10.0	---	---	---	---	2.0	1.0	5.0	4.0	7.0	4.5
7	13.0	10.0	---	---	---	---	1.5	1.0	6.0	4.0	6.5	4.5
8	13.5	10.0	---	---	---	---	1.0	1.0	6.0	4.5	7.5	5.0
9	11.5	10.0	---	---	---	---	1.0	1.0	5.5	4.5	7.5	4.5
10	10.5	9.5	---	---	---	---	1.5	1.0	5.0	2.5	7.5	5.5
11	10.0	9.5	---	---	---	---	2.0	1.5	5.0	2.5	6.0	4.0
12	---	---	---	---	---	---	1.5	1.0	5.0	3.0	6.0	2.5
13	---	---	---	---	---	---	2.5	1.5	5.5	3.5	5.5	3.0
14	---	---	---	---	---	---	2.5	2.0	5.0	4.0	6.5	2.5
15	---	---	---	---	---	---	3.5	2.0	6.5	4.0	7.5	2.5
16	---	---	---	---	---	---	3.5	2.0	6.5	3.0	7.0	4.0
17	---	---	---	---	---	---	4.0	2.5	6.5	3.5	7.0	4.5
18	---	---	---	---	---	---	4.0	1.5	6.0	3.0	7.0	3.0
19	---	---	---	---	3.5	1.5	3.5	2.0	6.0	3.0	6.5	4.0
20	---	---	---	---	4.5	3.0	3.0	1.5	6.5	3.0	6.0	4.5
21	---	---	---	---	5.5	4.0	4.0	2.0	6.5	3.5	5.5	4.5
22	---	---	5.0	4.0	6.0	4.5	3.5	2.0	7.5	4.5	8.0	3.5
23	---	---	5.0	4.0	5.0	4.0	3.0	1.0	7.0	4.5	8.5	4.0
24	---	---	4.5	4.0	5.5	4.5	3.5	1.5	6.5	3.5	9.0	4.5
25	---	---	4.5	4.0	5.5	3.0	4.0	2.5	6.0	3.5	9.0	5.5
26	---	---	5.5	4.5	4.0	2.5	4.0	2.0	6.0	4.5	9.0	5.5
27	---	---	5.5	4.5	3.5	2.5	3.5	1.0	6.0	5.0	8.0	6.0
28	---	---	5.5	4.5	2.5	2.0	3.0	1.5	7.0	4.5	6.0	4.5
29	---	---	5.5	4.5	2.0	0.5	2.0	1.0	---	---	5.5	3.0
30	---	---	5.5	5.0	2.5	0.5	5.0	2.5	---	---	6.0	3.5
31	---	---	---	---	2.0	0.5	6.0	3.5	---	---	7.5	5.0
MONTH	---	---	---	---	---	---	6.0	0.5	7.5	2.0	9.0	2.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	3.5	11.5	7.0	14.5	13.0	21.0	16.0	20.5	16.5	18.5	16.5
2	7.5	3.0	12.0	8.0	18.0	13.0	22.0	15.0	20.0	16.0	18.5	15.5
3	8.5	3.5	12.0	8.0	18.0	14.0	22.0	15.5	19.5	16.0	18.5	16.5
4	9.5	4.5	10.0	7.5	18.5	14.5	23.0	15.5	19.5	16.0	18.5	16.5
5	8.5	6.0	9.5	6.5	18.5	14.0	24.0	16.5	19.0	16.0	18.5	16.5
6	8.5	6.5	12.0	7.0	19.5	15.0	23.5	17.0	18.5	16.0	19.0	17.0
7	8.0	4.5	12.5	9.0	20.0	15.0	21.5	16.5	19.0	15.5	18.5	17.0
8	9.5	6.5	12.5	9.5	21.0	15.5	22.5	15.5	19.5	15.5	18.5	16.0
9	9.5	7.0	12.5	9.0	22.0	17.0	23.5	16.5	18.5	16.5	18.5	17.0
10	10.0	6.5	14.0	10.0	21.0	17.0	22.5	16.0	19.0	15.5	19.0	17.0
11	9.5	5.5	15.0	10.5	20.0	16.0	21.5	16.5	18.5	16.0	19.0	17.0
12	---	---	15.5	11.0	21.0	16.0	22.0	15.5	19.0	17.0	19.5	18.0
13	---	---	14.5	11.5	20.5	16.5	23.0	16.5	19.0	16.0	19.5	17.5
14	---	---	14.0	11.5	19.5	17.0	22.0	15.5	18.0	16.0	18.5	17.0
15	---	---	14.5	11.0	17.5	14.5	22.0	16.0	18.0	16.0	18.0	16.5
16	---	---	15.0	11.0	18.0	13.5	21.0	16.0	17.0	15.5	18.0	16.5
17	---	---	15.0	11.5	17.0	14.0	22.0	17.0	17.0	15.0	---	---
18	---	---	15.0	12.0	18.0	13.0	23.5	18.0	17.0	15.0	---	---
19	---	---	15.0	12.0	19.5	13.5	22.5	17.5	17.0	15.0	---	---
20	---	---	14.5	11.0	20.5	14.5	21.5	16.0	17.5	15.5	---	---
21	---	---	15.0	12.0	21.5	16.0	20.5	15.5	17.5	16.0	---	---
22	---	---	15.5	12.5	21.5	17.0	21.0	15.0	17.5	16.0	---	---
23	---	---	16.0	12.5	19.5	16.5	21.5	14.5	17.0	15.0	---	---
24	11.0	7.0	15.5	13.0	17.5	15.5	22.0	15.0	17.0	15.0	---	---
25	12.0	7.0	13.5	11.0	21.0	14.0	24.5	16.0	17.0	16.0	---	---
26	12.0	7.5	14.5	11.5	23.0	16.5	24.5	17.0	18.0	16.0	---	---
27	12.0	8.0	15.5	12.5	24.0	18.0	22.5	16.5	19.0	17.0	---	---
28	12.0	8.0	16.5	14.5	24.5	18.5	23.0	17.0	19.0	17.0	---	---
29	11.5	8.0	18.5	14.5	24.0	19.5	22.0	16.5	19.0	17.5	---	---
30	11.0	7.0	19.5	17.0	22.0	18.0	22.5	17.0	18.5	17.5	---	---
31	---	---	16.5	14.5	---	---	21.0	16.5	18.5	16.5	---	---
MONTH	---	---	19.5	6.5	24.5	13.0	24.5	14.5	20.5	15.0	---	---

## SACRAMENTO RIVER BASIN

373

## 11404500 NORTH FORK FEATHER RIVER AT PULGA, CALIF.

LOCATION.--Lat 39°47'39", long 121°27'03", in SW 1/4 sec. 6, T.22 N., R.5 E., Butte County, Plumas National Forest, temperature recorder at gaging station on left bank between railroad and highway bridges, 0.5 mile downstream from Flea Valley Creek and Pulga, and 1.5 miles downstream from Poe Dam.

DRAINAGE AREA.--1,953 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1963 to June 1966, water year 1972 (partial-record station).  
Water temperatures: October 1962 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 24.0°C Aug. 1, 2; minimum recorded, 3.5°C Dec. 11.

Period of record:

Water temperatures: Maximum (1963-64, 1965-66, 1967-73), 24.0°C July 21, 22, 1971, Aug. 8-11, 1972; Aug. 1, 2, 1973; minimum (1963-65, 1966-73), 0.5°C Jan. 4, 1972.

REMARKS.--No record Jan. 2-24. Clock stopped Aug. 29 to Sept. 3; range in temperature, 16.0°C to 20.0°C.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.5	10.5	9.0	10.0	9.0	7.0	6.5	7.0	5.5	8.0	6.0
2	16.0	15.5	10.5	9.5	9.5	8.5	---	---	7.5	6.0	8.5	6.5
3	16.0	15.5	10.0	9.5	9.5	9.0	---	---	7.0	6.5	8.5	6.5
4	16.5	15.5	10.0	9.0	9.5	8.5	---	---	7.5	6.0	7.5	6.5
5	16.5	16.0	10.0	9.0	8.5	7.5	---	---	9.0	6.0	8.5	6.5
6	16.0	15.5	10.5	9.5	7.5	6.5	---	---	8.5	6.0	7.5	7.0
7	16.0	15.5	10.5	10.0	8.0	7.0	---	---	10.0	7.0	8.0	6.5
8	16.5	15.5	11.0	10.0	7.5	5.5	---	---	9.5	8.5	9.0	7.0
9	15.5	15.5	10.5	10.0	6.0	4.5	---	---	9.5	9.0	9.0	7.0
10	15.5	15.0	10.5	10.0	5.0	4.0	---	---	9.0	7.0	9.0	8.0
11	15.0	14.0	10.5	10.0	5.5	3.5	---	---	9.0	7.0	8.5	7.0
12	14.0	13.5	10.5	9.5	6.0	5.5	---	---	8.0	7.5	8.5	6.5
13	14.5	13.0	10.5	10.0	6.0	5.0	---	---	9.0	8.0	8.0	6.5
14	13.0	12.5	10.0	9.5	6.0	5.5	---	---	8.5	8.0	8.5	6.0
15	13.0	12.5	10.5	10.0	6.0	5.0	---	---	9.0	7.5	9.0	6.5
16	13.0	13.0	10.5	10.0	6.5	6.0	---	---	9.0	7.5	9.0	7.0
17	13.0	13.0	10.0	9.5	7.5	6.0	---	---	9.0	8.0	8.5	7.0
18	13.0	12.0	10.0	9.5	8.5	7.5	---	---	8.0	7.0	9.0	6.5
19	13.0	12.5	11.0	10.0	9.0	7.5	---	---	8.0	6.0	7.5	7.0
20	14.0	12.0	10.5	9.5	10.0	9.0	---	---	8.0	6.0	8.0	7.0
21	14.0	12.5	10.5	9.5	11.0	9.5	---	---	8.0	6.5	7.5	7.0
22	14.0	12.5	10.0	9.0	11.0	8.5	---	---	8.5	6.5	8.5	6.5
23	14.0	12.5	9.5	8.5	10.0	9.0	---	---	8.0	6.5	9.5	7.0
24	13.0	12.0	9.5	8.5	10.0	9.5	---	---	8.0	7.0	10.5	8.0
25	13.0	11.0	10.5	9.0	9.5	9.0	5.5	5.0	8.5	6.5	10.5	8.5
26	12.5	11.0	10.5	9.0	9.0	8.5	5.0	4.0	8.0	6.5	11.0	8.5
27	12.0	10.5	10.0	9.0	8.5	8.0	5.0	4.0	8.0	6.0	11.0	8.5
28	12.0	10.5	10.0	9.0	8.5	7.5	5.5	4.5	7.0	6.0	10.5	8.0
29	11.0	9.5	10.0	9.0	7.5	6.5	5.5	4.5	---	---	9.5	7.0
30	10.5	8.5	10.0	8.5	7.5	6.5	6.5	5.5	---	---	8.5	8.0
31	10.0	9.0	---	---	7.5	6.5	7.5	6.0	---	---	9.5	6.5
MONTH	16.5	8.5	11.0	8.5	11.0	3.5	---	---	10.0	5.5	11.0	6.0

APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	7.0	13.0	9.0	17.0	13.0	19.5	14.5	24.0	19.0	---	---
2	9.0	6.0	12.5	9.5	17.0	12.5	21.5	15.0	24.0	19.0	---	---
3	10.0	6.5	13.5	10.0	17.0	13.0	21.5	17.0	23.5	19.0	---	---
4	10.5	7.0	10.5	9.5	17.5	12.5	22.0	17.0	23.5	19.0	19.5	16.0
5	11.0	7.5	12.5	8.5	17.5	12.5	22.0	17.0	23.0	19.0	19.5	17.0
6	11.5	8.0	13.5	9.5	17.5	13.0	22.0	17.0	23.0	18.5	20.0	16.0
7	10.5	8.0	14.0	10.5	18.0	13.5	21.5	17.0	22.5	18.0	19.5	16.0
8	11.0	7.0	14.5	10.5	19.0	13.5	22.0	17.5	22.5	18.5	18.5	15.0
9	11.0	8.5	14.5	10.5	19.0	14.0	22.5	17.5	22.5	18.5	19.5	16.0
10	9.0	8.5	15.0	10.5	18.5	14.5	22.5	18.0	22.5	18.0	19.5	16.0
11	9.5	9.0	15.5	11.0	18.5	14.0	22.0	18.0	22.5	18.0	20.0	16.5
12	9.5	9.0	16.0	11.5	18.5	14.5	22.0	18.0	23.0	18.0	20.5	17.0
13	9.0	8.0	13.5	12.0	17.0	14.0	22.5	18.0	22.5	17.5	20.5	17.0
14	9.0	8.0	13.0	12.0	16.0	13.5	22.5	18.0	22.5	18.0	20.5	16.5
15	9.0	8.0	13.0	12.0	16.5	13.0	22.5	18.5	22.0	18.0	19.5	16.5
16	10.0	8.5	12.0	11.0	17.0	13.0	22.0	18.5	21.5	16.5	19.5	16.5
17	10.5	8.0	12.5	11.5	16.5	12.5	23.0	18.5	21.0	16.5	19.5	16.0
18	10.0	7.5	13.0	11.5	17.0	11.5	23.0	18.5	21.0	16.5	18.5	15.5
19	10.5	7.0	13.0	12.0	17.5	12.5	23.0	18.0	21.0	16.5	18.5	16.5
20	10.5	7.0	13.0	11.5	17.5	12.5	22.0	18.0	---	---	18.5	16.5
21	11.0	7.0	16.0	12.0	17.5	13.0	22.0	17.5	---	---	19.5	16.0
22	11.5	7.5	16.0	12.0	16.5	13.5	21.5	17.5	---	---	17.5	16.5
23	12.5	8.5	16.0	12.0	15.5	13.5	21.0	17.0	---	---	17.5	16.5
24	12.5	9.0	13.5	12.5	18.5	13.5	21.5	17.0	---	---	17.5	16.0
25	13.0	9.0	15.0	11.5	19.0	14.0	22.0	17.0	---	---	18.0	15.5
26	12.0	10.0	15.0	10.5	20.0	14.5	22.0	17.5	---	---	18.0	15.0
27	10.5	10.0	15.5	11.0	19.5	15.0	22.5	18.0	---	---	18.0	15.0
28	11.0	10.0	17.0	12.0	20.5	15.5	22.5	18.0	---	---	18.5	15.5
29	10.5	10.0	17.5	13.0	20.0	15.0	23.0	18.5	---	---	18.5	16.0
30	10.5	9.0	16.5	13.5	19.5	15.0	23.0	18.5	---	---	18.5	15.5
31	---	---	15.5	13.0	---	---	23.0	18.5	---	---	---	---
MONTH	13.0	6.0	17.5	8.5	20.5	11.5	23.0	14.5	---	---	20.5	15.0

## SACRAMENTO RIVER BASIN

11405300 WEST BRANCH FEATHER RIVER NEAR PARADISE, CALIF.

LOCATION.--Lat 39°47'12", long 121°33'42", in SE $\frac{1}{4}$  sec.6, T.22 N., R.4 E., Butte County, temperature recorder at gaging station on right bank, 0.6 mile upstream from Griffin Gulch, and 4.0 miles northeast of Paradise.

DRAINAGE AREA.--110 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1962 to September 1973.

## EXTREMES, 1972-73:

Water temperatures: Maximum, 23.5°C July 29, 30; minimum, 1.0°C on several days during December.

## Period of record:

Water temperatures: Maximum (1962-63, 1964-70, 1971-73), 30.5°C Aug. 18, 1967; minimum, 1.0°C on several days in 1965, 1972, and 1973.

REMARKS.--No record Jan. 17 to Feb. 6.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	17.5	10.5	10.0	5.5	5.0	4.0	3.5	---	---	7.0	7.0
2	20.0	17.5	11.0	9.5	5.5	5.0	4.0	4.0	---	---	7.0	6.5
3	20.0	17.5	10.5	10.5	5.0	5.0	4.0	4.0	---	---	7.0	6.5
4	20.0	18.0	10.5	10.0	5.0	4.0	4.0	4.0	---	---	6.5	6.0
5	20.0	17.5	10.0	9.5	4.0	3.0	4.0	3.5	---	---	6.5	6.0
6	19.5	17.5	9.0	8.5	3.0	2.0	3.5	3.0	---	---	6.5	6.0
7	19.5	17.5	9.0	8.5	2.0	2.0	3.0	3.0	7.5	7.0	6.5	5.5
8	18.5	15.5	8.5	7.5	2.5	1.5	3.0	2.5	7.5	7.0	7.0	6.5
9	18.0	17.0	8.0	7.5	2.0	1.5	3.5	2.5	7.5	7.5	7.0	6.5
10	17.0	15.5	7.5	7.5	1.5	1.5	5.0	4.0	7.5	7.5	7.5	7.0
11	15.0	13.5	7.5	7.5	1.5	1.0	5.0	5.0	7.5	7.5	7.0	6.0
12	13.5	10.5	7.5	7.0	1.5	1.0	5.0	5.0	7.5	7.5	6.0	6.0
13	14.5	12.5	7.0	7.0	1.5	1.0	6.0	5.0	7.5	7.0	6.0	6.0
14	15.0	14.0	7.5	7.0	1.0	1.0	6.0	6.0	7.5	7.0	6.0	5.5
15	14.5	13.0	7.5	7.5	1.0	1.0	6.5	6.0	7.0	7.0	6.5	5.5
16	13.0	12.0	7.5	7.0	1.5	1.0	6.5	6.0	7.0	6.5	7.0	6.5
17	12.0	11.5	7.0	6.5	3.0	1.5	---	---	7.0	7.0	7.0	6.5
18	12.5	11.5	6.5	6.0	4.5	3.0	---	---	7.0	6.5	6.5	6.0
19	12.5	11.5	7.0	6.5	5.0	4.0	---	---	6.5	6.0	6.0	6.0
20	12.5	11.5	7.0	6.0	5.0	5.0	---	---	6.5	6.5	6.0	5.5
21	12.5	12.0	6.0	6.0	5.5	5.0	---	---	7.0	6.5	6.0	5.0
22	12.5	12.0	6.0	5.5	6.0	5.0	---	---	7.0	6.5	6.0	0.5
23	12.5	11.5	6.0	5.0	5.0	5.0	---	---	6.5	6.5	6.5	5.5
24	12.5	12.0	5.5	5.0	5.5	5.0	---	---	7.0	6.5	7.0	6.5
25	12.0	11.5	5.5	5.0	5.0	5.0	---	---	7.0	6.5	7.5	7.0
26	12.0	11.0	6.0	5.0	5.0	5.0	---	---	7.0	6.5	8.0	7.0
27	12.0	10.5	6.0	5.5	5.0	5.0	---	---	7.5	7.0	8.0	7.0
28	12.0	10.5	6.0	5.5	5.0	4.5	---	---	7.5	6.5	8.0	7.5
29	11.0	9.5	6.0	5.5	4.5	4.0	---	---	---	---	7.0	5.5
30	10.5	8.5	6.0	5.5	4.0	3.5	---	---	---	---	7.0	4.5
31	10.5	8.5	---	---	3.5	3.5	---	---	---	---	7.0	4.0
MONTH	20.0	8.5	11.0	5.0	6.0	1.0	---	---	7.5	6.0	8.0	0.5

APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	4.5	8.0	8.0	11.0	9.5	19.5	19.0	23.0	22.0	20.5	18.0
2	6.5	6.0	8.0	7.0	11.0	10.5	19.5	19.0	23.0	22.0	20.0	18.5
3	7.0	4.5	8.0	7.0	11.5	10.5	20.0	19.0	22.5	21.5	20.5	18.5
4	7.5	5.0	8.5	6.0	11.5	10.5	20.5	19.0	22.5	21.5	20.0	18.0
5	8.0	6.0	7.5	5.5	12.0	11.0	20.5	19.5	22.5	21.0	20.0	18.5
6	8.5	5.5	8.0	6.5	12.5	12.0	21.0	19.5	22.0	21.0	20.0	18.5
7	8.5	5.0	8.5	8.0	13.0	12.5	21.0	19.0	22.0	19.5	20.5	18.5
8	8.0	6.0	9.0	8.0	14.0	13.0	21.0	19.0	22.0	19.0	20.0	18.5
9	8.5	5.0	9.0	8.0	14.5	13.5	21.5	19.0	22.0	19.0	20.0	18.5
10	8.5	4.0	8.5	8.0	14.5	13.5	22.0	21.0	22.0	19.5	20.0	18.5
11	8.5	5.5	9.0	8.0	15.0	13.0	23.0	21.0	22.0	19.5	20.0	19.0
12	8.5	6.5	9.0	8.5	14.5	13.5	23.0	20.5	22.5	20.0	20.0	18.5
13	8.5	5.5	9.5	8.5	15.0	13.5	23.0	20.0	22.5	20.0	20.0	18.5
14	7.5	6.0	9.5	8.5	14.5	13.5	22.5	20.0	22.5	19.0	20.0	18.5
15	7.5	6.5	9.5	8.5	13.5	12.5	23.0	22.0	22.0	19.5	19.5	18.0
16	7.5	6.0	9.5	8.5	13.0	12.5	23.0	22.0	22.5	19.0	19.0	18.0
17	8.0	7.0	10.0	9.0	13.5	13.0	23.0	21.0	22.5	19.5	18.5	17.5
18	8.0	6.0	10.0	9.0	13.5	12.5	23.0	22.0	22.5	19.5	18.5	18.0
19	7.5	5.0	10.0	9.0	14.5	13.5	23.0	21.5	22.5	19.5	18.5	18.0
20	7.5	6.0	10.0	8.5	16.0	14.0	22.5	20.0	22.0	19.0	18.5	17.5
21	7.5	6.5	9.5	8.5	16.5	14.0	22.0	20.5	22.0	19.0	17.5	17.0
22	8.0	7.5	9.5	9.0	16.5	14.5	22.0	20.0	22.0	19.0	17.5	16.5
23	8.5	5.5	10.0	8.5	16.5	14.5	22.0	20.0	20.5	18.5	16.5	16.0
24	8.5	4.0	10.5	9.0	16.0	14.5	22.0	19.5	20.5	19.0	16.0	15.5
25	8.5	4.0	9.0	8.0	17.5	15.0	22.5	20.5	20.5	19.0	15.5	15.5
26	8.5	5.0	9.0	8.0	18.0	15.5	22.5	21.5	20.5	19.0	16.0	15.5
27	9.0	4.5	9.5	8.5	19.0	18.0	23.0	22.0	21.0	19.0	16.5	10.5
28	8.5	6.5	11.0	9.5	19.5	18.5	23.0	22.0	21.0	19.0	17.0	15.0
29	8.5	7.0	11.0	10.5	20.0	19.0	23.5	22.5	22.0	19.5	17.0	15.5
30	8.0	8.0	11.5	11.0	20.0	19.0	23.5	22.5	21.5	18.5	17.0	16.0
31	---	---	12.0	10.5	---	---	23.0	22.0	20.5	18.0	---	---
MONTH	9.0	4.0	12.0	5.5	20.0	9.5	23.5	19.0	23.0	18.0	20.5	10.5



## SACRAMENTO RIVER BASIN

375

## 11406920 THERMALITO AFTERBAY RELEASE TO FEATHER RIVER, NEAR OROVILLE, CALIF.

LOCATION.--Lat 39°27'23", long 121°38'10", in NW $\frac{1}{4}$ SE $\frac{1}{4}$  sec.33, T.19 N., R.3 E., Butte County, temperature recorder on left bank of outlet channel, 955 ft downstream from centerline of Thermalito Afterbay Dam, and 5.7 miles south-east of Oroville.

PERIOD OF RECORD.--Water temperatures: May 1968 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 26.0°C July 12; minimum, 1.5°C Dec. 13.

Period of record:

Water temperatures: Maximum, 28.0°C July 13, 1970; minimum, 1.5°C Dec. 13, 1972.

REMARKS.--Temperature is listed only when water is released from Thermalito Afterbay. Because of the complete regulation of the Feather River below Oroville Dam, the temperature of the water released from Thermalito Afterbay affects the temperature of the Feather River downstream from the Oroville project. Records furnished by California Department of Water Resources.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	14.5	10.5	10.5	8.5	8.0	7.0	6.5	7.0	7.0	9.0	8.5
2	16.0	14.5	11.0	10.5	8.5	8.5	6.5	6.0	---	---	9.0	8.5
3	16.0	15.5	11.0	10.5	8.5	8.0	6.5	6.0	---	---	9.0	8.0
4	16.0	16.0	11.5	11.0	8.0	8.0	6.5	6.0	7.0	7.0	8.5	8.0
5	19.0	16.0	13.0	11.5	8.0	7.0	6.0	6.0	8.0	7.0	8.5	8.0
6	18.0	17.0	12.0	11.5	8.0	6.5	6.0	6.0	8.0	8.0	8.5	8.0
7	17.0	16.5	12.0	11.5	6.5	6.0	6.0	6.0	8.0	7.0	8.5	7.0
8	16.5	16.0	11.5	11.0	6.0	5.0	6.0	6.0	8.0	8.0	9.0	8.0
9	16.0	15.0	11.5	11.0	5.0	3.5	6.5	5.5	8.0	8.0	8.5	8.0
10	15.0	15.0	11.5	11.0	3.5	3.0	6.5	6.5	8.5	8.0	9.0	8.5
11	15.0	15.0	11.0	11.0	3.0	2.0	7.0	6.5	8.5	8.0	9.0	8.5
12	15.0	15.0	11.0	10.5	3.0	3.0	8.0	7.0	8.0	8.0	9.0	8.5
13	15.5	15.0	10.5	10.5	3.0	1.5	8.0	8.0	8.0	7.0	9.0	8.5
14	15.5	15.0	10.5	10.0	3.0	2.0	8.0	8.0	8.0	7.0	9.5	8.5
15	15.5	15.0	10.0	10.0	3.5	3.0	8.0	8.0	8.5	8.0	9.0	8.5
16	15.5	15.0	10.0	10.0	4.0	3.5	8.5	8.0	8.5	8.0	10.0	9.0
17	15.5	15.0	10.5	10.0	5.5	4.0	8.5	7.0	8.5	8.0	11.0	10.0
18	15.5	15.0	10.0	10.0	6.0	5.5	8.0	7.0	8.5	8.0	11.5	10.0
19	15.5	15.0	10.5	10.0	7.0	6.0	8.0	7.0	9.0	8.0	10.5	10.0
20	15.0	14.5	10.0	9.5	8.5	7.0	7.0	6.5	9.0	8.5	10.0	9.5
21	14.5	14.0	10.0	9.5	9.0	8.5	7.0	7.0	9.0	8.5	10.0	9.5
22	14.5	14.0	9.5	9.0	10.0	9.5	7.0	6.5	9.5	9.0	10.0	9.5
23	14.5	14.0	9.5	8.5	10.0	10.0	7.0	6.5	9.0	9.0	10.0	9.5
24	15.0	14.0	9.0	8.5	10.0	10.0	7.0	6.5	9.5	9.0	11.0	9.5
25	14.0	13.5	9.0	8.5	10.0	10.0	6.5	6.5	10.0	9.5	12.0	10.5
26	14.0	13.5	9.0	8.5	10.0	10.0	6.5	6.5	10.0	10.0	12.0	11.0
27	13.5	13.5	9.0	8.5	10.0	8.5	6.5	6.5	10.0	9.5	13.5	11.5
28	13.5	13.0	9.0	8.5	9.0	8.5	7.0	6.5	9.5	8.5	13.5	11.5
29	13.0	12.0	8.5	8.5	8.5	8.0	7.0	6.5	---	---	12.0	11.5
30	12.0	11.0	8.5	8.5	8.0	7.0	7.0	6.5	---	---	12.0	11.5
31	11.0	10.0	---	---	7.0	7.0	7.0	7.0	---	---	13.0	11.5
MONTH	19.0	10.0	13.0	8.5	10.0	1.5	8.5	5.5	10.0	7.0	13.5	7.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	11.5	17.0	16.5	19.0	18.5	24.5	21.5	25.0	23.5	21.0	19.5
2	13.0	11.5	16.5	16.0	20.5	18.5	25.0	23.0	23.5	21.0	21.5	20.0
3	13.5	11.5	16.0	15.5	24.5	19.5	24.5	22.0	21.5	20.0	22.0	20.0
4	14.5	12.0	16.0	15.0	24.0	20.5	25.0	21.5	21.5	19.5	22.0	20.0
5	14.5	14.0	19.0	14.5	23.5	21.0	25.0	21.5	23.0	20.0	21.0	20.5
6	15.5	14.5	16.5	15.0	23.5	21.0	21.5	20.5	23.5	21.0	21.0	20.0
7	16.5	14.5	18.5	16.0	24.5	21.0	23.0	20.5	21.5	20.5	21.0	19.5
8	16.0	15.0	18.0	16.0	23.0	20.5	25.5	21.5	21.0	20.0	19.5	19.0
9	17.0	15.5	18.0	16.0	23.5	19.5	24.5	21.5	21.0	20.0	20.0	19.0
10	20.0	16.0	17.0	16.0	23.5	19.5	25.5	23.0	21.0	19.5	20.0	19.5
11	18.5	16.5	18.0	16.0	22.0	21.0	24.5	22.0	21.0	20.0	21.0	19.5
12	18.0	16.5	18.0	15.5	21.5	21.0	26.0	23.0	23.5	20.0	21.5	20.0
13	18.0	17.0	19.0	16.0	21.5	20.5	23.5	21.5	23.5	21.0	20.0	19.0
14	19.0	16.5	20.5	18.5	20.5	20.0	23.0	21.0	24.0	22.0	19.0	18.0
15	17.0	16.5	19.5	18.5	20.0	19.5	23.0	21.0	22.0	21.0	19.0	18.0
16	17.0	16.5	19.5	18.5	21.5	19.5	24.0	22.0	21.5	20.5	18.5	17.0
17	17.0	15.5	19.5	17.0	22.0	20.5	24.0	23.0	22.0	20.5	18.5	17.0
18	15.5	14.0	19.0	16.5	21.5	20.0	23.0	21.5	22.0	20.0	18.0	17.0
19	14.5	13.0	19.0	16.5	24.5	21.0	22.0	21.0	22.0	21.0	18.0	17.0
20	13.0	12.0	21.0	19.0	25.0	22.0	21.5	20.5	22.0	21.0	18.5	17.0
21	14.0	13.0	22.0	20.5	24.5	22.0	22.0	21.0	21.5	21.0	19.5	18.0
22	15.0	14.0	21.0	19.5	22.0	21.0	24.5	22.0	21.0	20.5	18.5	18.0
23	17.0	14.5	19.5	17.0	22.0	20.5	24.0	21.0	21.0	20.0	18.5	17.0
24	16.5	15.5	17.0	16.0	24.0	21.0	24.0	21.5	21.0	20.0	18.5	18.0
25	17.0	15.0	16.0	16.0	24.5	21.0	23.0	21.0	22.0	19.5	18.5	18.0
26	16.0	15.0	17.0	16.0	24.0	22.0	22.0	21.0	21.0	20.5	18.5	17.0
27	16.0	15.0	20.0	16.5	24.5	22.0	23.0	21.0	21.0	20.5	17.0	17.0
28	16.5	15.0	21.0	18.5	23.0	22.0	23.0	21.5	23.0	20.5	18.0	16.5
29	20.0	16.0	21.5	19.0	22.0	22.5	25.5	23.0	22.0	20.5	18.0	16.5
30	17.0	15.5	20.5	19.0	23.0	21.0	25.5	23.5	21.0	20.0	18.0	16.5
31	---	---	19.5	18.5	---	---	25.5	24.0	20.0	19.5	---	---
MONTH	20.0	11.5	22.0	14.5	25.0	18.5	26.0	20.5	25.0	19.5	22.0	16.5

## SACRAMENTO RIVER BASIN

11407000 FEATHER RIVER AT OROVILLE, CALIF.  
(Irrigation network station)

LOCATION (revised).--Lat 39°31'18", long 121°32'48", in Buga Fernandez Grant, T.19 N., R.4 E., Butte County, at gaging station on right bank, 300 ft upstream from fish barrier dam on Feather River, and 0.8 mile northeast of Oroville Post Office.

DRAINAGE AREA.--3,624 sq mi.

PERIOD OF RECORD.--Chemical analyses: January to December 1906, water years 1951-53 (partial-record station), October 1953 to September 1973.

Specific conductance: March 1972 to September 1973.

Water temperatures: October 1953 to September 1954, November 1956 to September 1973.

Sediment records: November 1956 to September 1973.

## EXTREMES, 1972-73:

Specific conductance: Maximum daily, 94 micromhos Jan. 22; minimum daily, 70 micromhos June 1.

Water temperatures: Maximum, 17.0°C July 24, 25, 27, 29; minimum, 6.5°C Jan. 16, 17, Feb. 12, 13, Mar. 11.

Sediment concentrations (1956-73): Maximum daily, 15 mg/l Jan. 12, Feb. 26, 27; minimum daily, 1 mg/l on many days.

Sediment loads: Maximum daily, 968 tons Jan. 17; minimum daily, 1.0 ton Mar. 20, 21.

## Period of record:

Specific conductance (1972-73): Maximum daily, 94 micromhos Jan. 22, 1973; minimum daily, 70 micromhos June 1, 1973.

Water temperatures: Maximum (1956-67, 1968-73), 27.0°C Sept. 10, 12, 1959; minimum (1956-67, 1969-73), 1.5°C Dec. 27, 1959, Jan. 23-25, 1962.

Sediment concentrations (1956-73): Maximum daily, 4,100 mg/l Feb. 1, 1963; minimum daily, 1 mg/l on many days in 1961-62, 1964, 1968-73).

Sediment loads (1956-73): Maximum daily, 1,500,000 tons Feb. 1, 1963; minimum daily, 0.60 ton Sept. 19, 1972.

REMARKS.--Water-temperature data for the gaging station are obtained from a thermograph located at fish hatchery near fish barrier dam. No temperature record July 2-8. Chemical and sediment sampling point ranges from 0.2 to 1.5 miles downstream from gaging station. Records of discharge and temperature data furnished by California Department of Water Resources and reviewed by Geological Survey.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT.												
05...	1230	429	8.5	3.4	3.4	.7	49	0	40	2.9	1.9	.1
NOV.												
01...	1610	426	9.1	3.7	3.6	1.0	53	0	43	2.9	1.8	.1
DEC.												
01...	1150	399	8.9	3.8	3.5	1.0	52	0	43	5.0	1.6	.1
FFR.												
02...	0800	420	9.1	3.7	3.9	.9	58	0	48	3.5	2.0	.0
MAR.												
01...	1020	413	10	3.7	3.6	.9	53	0	43	3.7	2.0	.0
APR.												
02...	1720	406	8.6	4.0	3.5	.9	54	0	44	3.7	2.0	.0
MAY												
03...	1600	411	8.2	3.6	3.4	.9	49	0	40	3.4	1.4	.0
31...	1510	409	7.8	3.3	2.8	.6	44	0	36	3.0	2.1	.0
JULY												
02...	1430	410	8.1	2.9	2.8	.7	47	0	39	3.4	1.7	.0
AUG.												
02...	0630	413	9.2	3.2	3.2	.7	44	0	36	2.7	1.2	.0
30...	1345	422	8.4	3.1	3.3	.8	47	0	39	3.6	2.0	.1

DATE	DIS- SOLVED NITRATE PLUS NITRATE (N) (MG/L)	DIS- SOLVED VED- PHOS- (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM RATIO	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
OCT.											
05...	.05	--	.02	64	.09	35	0	17	.3	82	15.0
NOV.											
01...	.17	--	.00	63	.09	38	0	17	.3	89	11.5
DEC.											
01...	.12	--	.00	66	.09	38	0	16	.2	88	9.5
FER.											
02...	.13	.02	--	71	.10	38	0	18	.3	95	--
MAR.											
01...	.10	.02	--	70	.10	40	0	16	.2	89	8.5
APR.											
02...	.04	--	.01	63	.09	38	0	16	.2	88	12.0
MAY											
03...	.29	--	.00	61	.08	35	0	17	.3	82	--
31...	.04	--	.08	83	.11	33	0	15	.2	78	15.5
JULY											
02...	.01	--	.00	54	.07	32	0	16	.2	85	17.0
AUG.											
02...	.00	--	.00	52	.07	36	0	16	.2	78	15.5
30...	.02	--	.02	54	.07	34	0	17	.2	82	17.0

## SACRAMENTO RIVER BASIN

377

11407000 FEATHER RIVER AT OROVILLE, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	86	91	91	---	88	78	80	70	72	75	80
2	---	86	91	91	88	89	80	82	71	71	75	78
3	84	87	---	88	92	88	80	80	72	73	76	79
4	82	87	90	89	89	88	80	80	71	71	76	78
5	---	86	---	89	91	---	82	81	72	72	77	78
6	92	86	90	89	90	85	82	82	---	72	77	78
7	90	82	90	92	91	85	82	81	72	72	77	78
8	93	82	90	93	92	85	83	81	73	72	77	80
9	91	85	89	89	92	86	84	81	72	73	77	80
10	87	85	87	92	92	85	79	80	72	73	77	80
11	85	87	86	---	92	84	79	81	72	73	78	80
12	88	87	86	92	89	85	79	80	72	76	78	80
13	85	87	86	92	89	85	82	80	72	---	78	---
14	83	88	88	92	89	85	81	81	72	73	78	78
15	83	---	---	92	---	84	80	79	72	73	78	78
16	83	91	89	93	88	84	80	78	72	73	79	78
17	83	90	90	93	88	---	83	79	72	73	78	80
18	83	90	90	92	88	84	83	78	73	78	77	80
19	82	90	91	---	88	82	83	73	72	77	77	80
20	83	89	90	89	88	82	---	74	72	77	78	79
21	---	---	93	91	88	83	84	73	72	76	79	79
22	87	87	93	94	88	82	82	73	72	76	79	80
23	82	88	93	91	88	83	82	73	73	76	79	79
24	87	86	93	92	88	83	82	75	72	78	82	79
25	88	92	---	91	87	84	82	75	73	76	82	81
26	87	88	91	91	87	82	83	75	72	77	82	81
27	88	89	91	91	87	81	82	75	73	77	79	81
28	87	90	91	90	86	82	83	75	72	76	80	80
29	87	93	93	---	---	84	82	75	72	77	79	81
30	87	90	91	90	---	83	83	75	73	78	79	79
31	87	---	91	91	---	82	---	---	---	78	80	---
MONTH	86	88	90	91	89	84	82	78	72	75	78	79

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.0	12.0	11.5	10.0	9.5	8.0	8.0	7.0	7.0	8.0	8.0
2	11.5	11.0	12.0	11.0	9.5	9.5	8.0	8.0	7.0	7.0	8.0	8.0
3	12.0	11.0	12.0	11.5	9.5	9.5	8.0	8.0	7.0	7.0	8.0	8.0
4	12.0	11.5	11.5	11.0	9.5	9.0	8.0	8.0	7.0	7.0	8.0	8.0
5	12.0	11.5	12.0	11.5	9.0	9.0	8.0	8.0	7.0	7.0	8.0	8.0
6	14.0	12.0	12.0	11.0	9.0	9.0	8.0	8.0	7.0	7.0	8.0	7.0
7	14.0	13.0	11.5	11.5	9.0	9.0	8.0	7.0	7.0	7.0	7.0	7.0
8	14.0	13.5	11.5	11.0	9.0	9.0	7.0	7.0	7.0	7.0	7.0	7.0
9	13.5	11.5	11.5	11.5	9.0	8.5	7.0	7.0	7.0	7.0	8.0	7.0
10	13.5	13.0	11.5	11.5	8.5	8.0	7.0	7.0	7.0	7.0	8.0	8.0
11	13.0	11.0	11.5	11.5	8.0	8.0	7.0	7.0	7.0	7.0	8.0	6.5
12	11.0	10.5	11.5	11.5	8.0	8.0	7.0	7.0	7.0	6.5	8.0	7.0
13	11.0	10.5	11.5	11.5	8.0	8.0	7.0	7.0	6.5	6.5	8.0	8.0
14	11.0	10.5	11.5	10.5	8.0	8.0	7.0	7.0	7.0	7.0	8.5	8.0
15	11.0	10.5	11.5	11.0	8.0	8.0	7.0	7.0	7.0	7.0	8.5	8.5
16	10.5	10.0	11.5	11.5	8.0	8.0	7.0	6.5	7.0	7.0	9.0	8.5
17	11.0	10.5	11.5	11.0	8.0	8.0	7.0	6.5	8.0	7.0	8.5	8.5
18	11.0	10.5	11.0	11.0	8.0	8.0	7.0	7.0	8.0	7.0	9.0	8.5
19	10.5	10.5	11.0	11.0	8.0	8.0	7.0	7.0	8.0	7.0	9.0	8.5
20	11.5	10.5	11.0	10.0	8.0	8.0	7.0	7.0	8.0	7.0	8.5	8.0
21	11.5	11.5	10.5	10.0	8.5	8.0	7.0	7.0	8.0	8.0	8.5	8.0
22	11.5	11.0	10.5	10.5	8.5	8.5	7.0	7.0	8.0	8.0	8.5	8.0
23	11.5	10.5	10.5	10.0	8.5	8.0	7.0	7.0	8.0	8.0	8.0	8.0
24	11.0	11.0	10.5	10.0	8.5	8.0	7.0	7.0	8.0	8.0	8.5	8.0
25	13.0	11.0	10.5	10.0	8.0	8.0	7.0	7.0	8.0	8.0	9.0	8.5
26	13.0	11.0	10.0	10.0	8.0	8.0	7.0	7.0	8.5	8.0	9.0	8.5
27	12.0	11.5	10.0	10.0	8.5	8.0	7.0	7.0	8.0	7.0	9.0	8.5
28	12.0	11.5	10.0	10.0	8.5	8.5	7.0	7.0	8.0	8.0	9.0	8.5
29	12.0	11.5	10.0	10.0	8.5	8.5	7.0	7.0	8.0	8.0	9.0	8.5
30	11.5	10.5	10.0	10.0	8.5	8.0	7.0	7.0	---	---	9.0	8.5
31	12.0	11.0	---	---	8.0	8.0	7.0	7.0	---	---	9.0	9.0
MONTH	14.0	10.0	12.0	10.0	10.0	8.0	8.0	6.5	8.5	6.5	9.0	6.5

## SACRAMENTO RIVER BASIN

11407000 FEATHER RIVER AT OROVILLE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	11.5	11.5	14.5	13.5	14.5	13.5	15.0	14.5	14.0	13.5
2	9.5	9.0	11.5	11.0	14.0	14.0	---	---	15.5	14.5	14.0	13.5
3	9.5	9.0	11.5	10.5	14.5	14.0	---	---	16.0	15.0	14.0	13.5
4	9.5	9.0	11.0	11.0	14.0	13.0	---	---	15.5	15.0	14.0	12.0
5	10.0	9.5	11.0	10.5	14.5	13.5	---	---	15.5	15.0	13.5	13.0
6	10.5	9.5	11.5	10.5	14.5	14.0	---	---	15.5	14.5	14.0	12.0
7	11.0	10.0	11.5	11.0	15.0	14.5	---	---	16.0	15.0	14.0	13.5
8	11.0	9.5	11.5	11.0	15.0	14.5	---	---	16.0	15.5	14.5	14.0
9	10.5	9.5	12.0	11.0	15.0	14.5	16.0	14.5	16.0	15.0	15.0	13.5
10	11.0	9.5	12.0	11.5	15.0	14.5	16.0	15.0	16.5	15.5	13.5	11.5
11	11.0	10.0	12.0	11.5	15.5	14.5	15.5	14.5	16.0	16.0	12.0	11.0
12	10.5	10.0	12.0	11.5	15.0	14.0	15.0	14.0	16.0	16.0	12.0	11.5
13	11.0	10.0	12.0	11.5	14.5	14.0	16.5	14.5	16.5	16.0	12.0	11.5
14	11.0	10.0	13.0	11.5	14.5	14.0	16.0	15.0	16.5	16.0	12.0	11.5
15	11.0	10.0	12.0	11.5	14.5	14.5	16.0	15.5	16.5	15.0	12.0	11.5
16	10.5	10.0	12.0	11.5	15.0	14.5	16.0	15.5	15.5	15.0	12.0	11.5
17	10.5	10.0	12.0	11.5	15.0	14.5	16.0	15.5	15.5	15.0	13.0	11.0
18	10.5	10.0	12.0	12.0	15.0	14.5	16.5	15.5	15.0	14.5	13.5	13.0
19	10.5	10.5	12.0	11.5	15.5	14.0	16.0	15.5	15.5	14.5	13.5	11.5
20	11.0	10.5	13.5	12.0	15.0	15.0	16.0	15.5	15.5	14.5	13.0	11.5
21	11.5	11.0	13.0	11.5	15.5	15.0	16.0	15.5	15.0	14.5	13.0	11.5
22	11.5	11.0	13.0	13.0	15.5	15.0	16.5	15.5	15.0	14.0	13.0	12.0
23	11.0	10.5	13.5	13.0	15.0	15.0	16.5	15.0	15.0	14.0	13.5	13.0
24	11.0	10.5	13.5	12.0	15.0	14.5	17.0	16.0	15.0	15.0	13.5	12.0
25	11.5	11.0	13.0	11.0	15.0	14.0	17.0	16.0	16.0	15.0	14.0	13.0
26	11.0	11.0	12.0	11.5	15.5	14.5	16.5	16.0	15.5	14.5	14.5	13.5
27	11.0	10.5	13.0	11.5	14.5	14.0	17.0	16.5	15.0	13.5	13.5	12.0
28	11.0	10.5	13.5	12.0	14.5	14.0	16.5	16.0	14.5	14.5	13.0	12.0
29	11.0	11.0	14.0	12.0	14.5	13.5	17.0	15.5	15.0	13.5	13.0	13.0
30	11.5	10.5	14.0	14.0	14.5	13.5	16.5	15.0	15.0	13.5	13.5	12.0
31	---	---	14.0	13.5	---	---	15.0	14.5	13.5	12.0	---	---
MONTH	11.5	9.0	14.0	10.5	15.5	13.0	---	---	16.5	12.0	15.0	11.0

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	428	1	1.2	426	1	1.2	399	2	2.2
2	430	1	1.2	411	3	3.3	400	3	3.2
3	432	1	1.2	410	2	2.2	400	3	3.2
4	435	1	1.2	410	2	2.2	399	2	2.2
5	429	2	2.3	411	2	2.2	396	2	2.1
6	430	2	2.3	410	2	2.2	397	3	3.2
7	430	2	2.3	407	2	2.2	398	2	2.1
8	430	2	2.3	409	2	2.2	402	2	2.2
9	430	2	2.3	406	2	2.2	402	2	2.2
10	430	2	2.3	409	2	2.2	398	2	2.1
11	430	2	2.3	411	2	2.2	397	2	2.1
12	432	2	2.3	407	2	2.2	395	3	3.2
13	436	2	2.4	408	2	2.2	399	3	3.2
14	435	1	1.2	413	2	2.2	405	2	2.2
15	432	1	1.2	408	3	3.3	408	2	2.2
16	426	1	1.2	407	3	3.3	403	2	2.2
17	412	1	1.1	404	3	3.3	418	4	4.5
18	414	1	1.1	403	3	3.3	414	6	6.7
19	409	1	1.1	403	3	3.3	408	4	4.4
20	408	1	1.1	404	3	3.3	408	3	3.3
21	409	1	1.1	402	2	2.2	400	2	2.2
22	407	1	1.1	398	2	2.1	395	2	2.1
23	405	1	1.1	397	2	2.1	395	2	2.1
24	405	1	1.1	401	1	1.1	396	2	2.1
25	404	1	1.1	397	1	1.1	397	2	2.1
26	412	1	1.1	401	2	2.2	398	2	2.1
27	416	1	1.1	400	3	3.2	398	2	2.1
28	410	1	1.1	404	4	4.4	400	3	3.2
29	411	1	1.1	401	4	4.3	396	3	3.2
30	411	1	1.1	403	4	4.4	395	3	3.2
31	410	2	2.2	---	---	---	394	4	4.3
TOTAL	13038	--	46.8	12181	--	77.8	12410	--	87.4

## SACRAMENTO RIVER BASIN

379

11407000 FEATHER RIVER AT OROVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JANUARY			FEBRUARY			MARCH		
	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	388	4	4.2	419	5	5.7	413	6	6.7
2	398	4	4.3	420	5	5.7	414	3	3.4
3	403	5	5.4	417	6	6.8	414	2	2.2
4	403	3	3.3	420	6	6.8	415	2	2.2
5	405	3	3.3	421	7	8.0	413	2	2.2
6	397	4	4.3	433	7	8.2	414	2	2.2
7	398	5	5.4	429	7	8.1	413	2	2.2
8	406	6	6.6	426	7	8.1	415	2	2.2
9	416	7	7.9	422	8	9.1	412	2	2.2
10	404	6	6.5	422	8	9.1	412	2	2.2
11	444	13	16	414	7	7.8	409	2	2.2
12	417	15	17	411	6	6.7	406	3	3.3
13	400	7	7.6	412	5	5.6	404	3	3.3
14	398	3	3.2	416	4	4.5	403	2	2.2
15	409	3	3.3	416	5	5.6	403	2	2.2
16	14500	14	950	411	7	7.8	402	2	2.2
17	29000	12	968	410	6	6.6	408	2	2.2
18	29000	11	843	416	5	5.6	405	2	2.2
19	21900	10	615	415	4	4.5	411	2	2.2
20	5480	8	128	416	3	3.4	385	1	1.0
21	447	6	7.2	417	3	3.4	380	1	1.0
22	424	4	4.6	418	4	4.5	381	2	2.1
23	407	4	4.4	418	4	4.5	391	2	2.1
24	411	3	3.3	418	5	5.6	406	3	3.3
25	413	4	4.5	415	10	11	409	3	3.3
26	414	6	6.7	418	15	17	406	2	2.2
27	407	7	7.7	447	15	18	408	2	2.2
28	405	6	6.6	416	8	9.0	407	2	2.2
29	416	3	3.4	--	--	--	409	2	2.2
30	424	3	3.4	--	--	--	406	2	2.2
31	423	4	4.6	--	--	--	407	2	2.2
TOTAL	110557	--	3658.7	11733	--	206.7	12581	--	75.7
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	407	3	3.3	412	3	3.3	409	3	3.3
2	406	4	4.4	409	2	2.2	408	2	2.2
3	403	4	4.4	411	2	2.2	407	2	2.2
4	405	4	4.4	411	2	2.2	408	2	2.2
5	408	4	4.4	411	2	2.2	404	2	2.2
6	411	4	4.4	410	3	3.3	405	1	1.1
7	407	4	4.4	413	3	3.3	406	1	1.1
8	406	5	5.5	412	3	3.3	407	1	1.1
9	408	4	4.4	411	3	3.3	405	2	2.2
10	408	3	3.3	411	3	3.3	408	2	2.2
11	405	3	3.3	408	2	2.2	409	2	2.2
12	410	3	3.3	413	2	2.2	409	2	2.2
13	408	4	4.4	412	2	2.2	412	2	2.2
14	408	4	4.4	411	2	2.2	412	1	1.1
15	408	4	4.4	412	2	2.2	405	1	1.1
16	410	4	4.4	411	2	2.2	401	1	1.1
17	417	4	4.5	407	2	2.2	399	1	1.1
18	422	2	2.3	404	3	3.3	401	1	1.1
19	417	2	2.3	402	3	3.3	406	1	1.1
20	411	2	2.2	402	2	2.2	409	1	1.1
21	407	2	2.2	407	2	2.2	409	1	1.1
22	410	2	2.2	404	3	3.3	409	1	1.1
23	415	2	2.2	404	3	3.3	410	2	2.2
24	412	1	1.1	410	4	4.4	409	2	2.2
25	421	1	1.1	412	4	4.4	413	2	2.2
26	434	1	1.2	408	4	4.4	408	2	2.2
27	426	2	2.3	409	4	4.4	405	1	1.1
28	418	3	3.4	406	3	3.3	408	1	1.1
29	419	3	3.4	405	3	3.3	410	2	2.2
30	420	3	3.4	407	3	3.3	412	2	2.2
31	--	--	--	409	4	4.4	--	--	--
TOTAL	12367	--	100.9	12674	--	93.5	12223	--	51.7

## SACRAMENTO RIVER BASIN

11407000 FEATHER RIVER AT OROVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

[illegible]

## 11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.

LOCATION.--Lat 39°22'00", long 121°38'46", in Boga Fernandez Grant (revised) T.18 N., R.3 E., Butte County, at gaging station on right bank, 300 ft upstream from highway bridge, and 2.7 miles east of Gridley.

DRAINAGE AREA.--3,676 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1964 to September 1973.

Sediment records: October 1964 to September 1973.

## EXTREMES, 1972-73:

Water temperatures: Maximum, 24.0°C July 31; minimum, 5.0°C Jan. 5-9.

Sediment concentrations: Maximum daily, 67 mg/l Jan. 17; minimum daily, 2 mg/l Oct. 20, Dec. 23.

Sediment discharge: Maximum daily, 8,150 tons Jan. 17; minimum daily, 16 tons Dec. 23.

## Period of record:

Water temperatures (1964-69, 1970-73): Maximum (1972-73), 24.0°C July 31, 1973; minimum, 4.0°C on several days in December and January of most years.

Sediment concentrations: Maximum daily, 1,340 mg/l Dec. 25, 1964; minimum daily, 1 mg/l Dec. 12, 1968, Dec. 4, 1969, Sept. 1, 1970, Dec. 14, 1971.

Sediment discharge: Maximum daily, 527,000 tons Dec. 23, 1964; minimum daily, 1.4 tons Oct. 27, 1966.

REMARKS.--Temperature records furnished by California Department of Water Resources.

REVISIONS.--Revised figures of sediment discharge, in tons per day, for water year 1966, superseding those published in WRD Calif. 1966, are given herewith: Jan. 30, 1,010 tons; total for January, 28,047 tons; total for water year, 101,357.4 tons.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	13.5	10.5	9.5	10.5	10.0	8.5	7.0	6.0	5.5	10.0	9.5
2	15.0	13.5	10.5	10.0	10.0	10.0	8.0	8.0	5.5	5.0	10.5	9.5
3	15.0	13.5	11.0	10.0	10.0	9.5	8.0	6.5	6.0	5.0	11.5	10.5
4	16.0	14.0	11.5	10.0	10.0	9.5	7.0	6.0	6.5	6.0	13.0	10.5
5	16.0	14.5	12.0	10.5	9.5	9.0	7.0	6.5	7.0	6.5	14.5	11.5
6	16.5	15.0	11.5	10.5	10.0	9.0	8.0	6.5	8.0	6.5	14.5	12.0
7	17.0	15.5	11.5	10.5	9.0	8.5	8.0	6.5	8.5	7.0	15.5	13.0
8	17.0	15.5	11.5	10.5	8.5	8.0	8.0	7.0	8.5	7.0	15.0	13.5
9	17.0	15.5	11.5	10.5	8.0	8.0	8.5	7.0	8.5	7.0	14.5	13.0
10	17.0	15.5	12.0	11.0	8.5	8.0	8.0	7.0	8.5	8.0	15.0	13.5
11	17.0	16.0	11.5	11.5	9.0	8.5	7.0	7.0	9.5	8.0	15.5	13.5
12	17.0	16.0	12.0	11.0	8.5	8.0	7.0	6.5	10.0	8.5	15.0	14.5
13	17.0	15.5	11.5	10.5	9.0	8.0	7.0	6.5	10.0	8.5	16.0	14.0
14	17.0	15.5	11.5	10.5	8.0	8.0	8.0	6.5	10.0	9.0	16.5	15.0
15	15.5	13.5	11.0	10.0	8.5	8.0	8.0	6.5	10.0	9.0	16.0	14.5
16	14.0	13.5	10.5	9.5	8.5	8.0	7.0	6.5	10.5	8.5	16.0	14.0
17	13.5	12.0	10.5	9.5	8.5	8.0	6.5	6.0	11.0	9.5	16.0	14.0
18	13.5	12.0	10.5	10.0	9.0	8.0	6.5	6.5	11.0	9.5	15.0	13.0
19	13.5	12.0	10.5	9.5	9.0	8.0	7.0	6.5	11.0	9.5	15.5	13.5
20	13.5	13.0	10.5	9.5	9.0	8.0	8.0	6.5	11.5	10.5	15.5	13.5
21	13.5	12.0	10.5	10.0	8.5	8.0	8.5	7.0	11.5	10.5	15.0	13.5
22	14.0	12.0	11.0	10.0	9.0	8.0	8.5	8.0	11.5	10.5	14.5	13.5
23	13.5	12.0	11.0	11.0	9.0	8.5	9.0	8.5	10.5	10.0	15.0	13.5
24	13.5	12.0	11.0	11.0	9.0	9.0	8.5	8.0	10.0	9.5	14.0	13.5
25	13.5	11.5	11.0	10.5	9.0	8.5	8.0	6.5	9.5	9.0	14.0	13.0
26	13.5	11.5	11.0	11.0	8.5	8.5	7.0	6.0	9.5	8.5	13.0	11.0
27	13.0	11.5	11.0	11.0	8.5	8.0	6.5	6.0	9.5	8.5	12.0	10.5
28	11.5	10.5	11.0	11.0	8.5	8.0	7.0	6.0	9.5	9.0	12.0	10.5
29	10.5	9.5	11.5	11.0	8.5	8.0	6.5	6.0	10.0	9.5	13.5	11.0
30	10.0	9.5	11.0	10.5	8.5	8.0	7.0	6.0	---	---	13.5	11.0
31	10.5	9.5	---	---	8.0	7.0	6.0	5.5	---	---	13.0	11.5
MONTH	17.0	9.5	12.0	9.5	10.5	7.0	9.0	5.5	11.5	5.0	16.5	9.5

## SACRAMENTO RIVER BASIN

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	12.0	15.5	13.5	23.0	20.5	23.0	20.0	---	---	21.0	19.0
2	15.0	12.0	16.5	14.5	21.5	19.5	23.0	20.0	---	---	20.0	18.5
3	16.0	14.0	18.0	15.5	21.0	19.0	23.5	21.0	---	---	20.0	18.5
4	16.0	14.5	18.0	15.0	22.0	19.0	24.0	21.0	---	---	20.0	18.5
5	15.5	14.5	16.5	15.0	23.0	20.5	24.0	21.0	---	---	20.5	19.0
6	15.5	14.0	15.5	14.5	21.5	19.5	23.5	21.0	---	---	20.5	19.0
7	15.5	13.5	14.5	13.5	21.0	19.0	23.0	20.5	---	---	20.0	18.5
8	15.5	13.5	15.5	13.5	20.0	19.0	---	---	---	---	19.0	17.0
9	15.5	13.5	16.5	14.0	19.5	17.0	---	---	---	---	18.5	16.5
10	15.0	13.5	17.0	14.5	19.0	17.0	---	---	---	---	19.0	16.5
11	14.5	13.0	18.5	15.5	20.0	18.0	---	---	---	---	18.0	16.5
12	13.0	11.5	19.0	15.5	20.5	18.5	---	---	---	---	18.5	16.0
13	13.5	11.0	19.0	15.5	21.5	19.5	---	---	---	---	18.5	16.5
14	14.5	11.5	19.0	16.0	21.0	19.0	---	---	20.0	19.0	18.0	16.0
15	15.5	13.0	18.5	16.0	21.0	19.0	---	---	19.5	18.5	16.5	15.5
16	16.0	13.5	18.5	16.0	21.0	19.0	---	---	18.5	17.0	16.0	14.5
17	16.0	13.5	19.5	16.5	22.0	18.5	---	---	19.0	16.5	16.0	13.5
18	14.5	13.0	19.5	16.5	22.0	19.5	---	---	19.0	16.5	16.0	14.0
19	15.0	12.0	18.5	16.0	22.0	20.0	---	---	18.5	16.0	16.0	14.0
20	15.5	13.0	16.0	15.0	23.0	20.0	---	---	19.5	16.5	18.0	15.0
21	15.5	13.5	18.0	15.0	23.0	20.0	---	---	20.0	18.5	17.0	15.5
22	16.5	14.0	19.5	16.0	21.5	20.0	---	---	20.5	18.5	17.0	15.5
23	16.5	14.5	19.5	16.5	20.0	18.0	---	---	20.5	18.5	18.0	15.5
24	16.0	14.5	19.5	16.0	21.0	17.0	---	---	20.0	18.0	17.0	15.5
25	16.0	14.5	20.0	16.5	21.5	19.0	---	---	22.0	19.0	16.0	15.0
26	16.0	14.0	20.0	16.5	22.0	20.0	---	---	21.5	19.5	15.0	14.0
27	16.0	14.0	20.0	17.0	22.0	20.0	---	---	22.0	20.0	15.0	14.0
28	16.0	12.0	20.5	17.0	22.0	20.0	---	---	22.0	20.0	16.5	14.0
29	15.5	13.5	21.5	18.5	22.0	20.0	---	---	22.0	20.0	16.5	14.5
30	14.5	11.5	22.0	19.0	23.0	20.0	---	---	22.0	20.5	16.5	15.0
31	---	---	22.0	19.0	---	---	---	---	---	---	---	---
MONTH	16.5	11.0	22.0	13.5	23.0	17.0	---	---	---	---	21.0	13.5

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	15.5	11.5	11.0	10.5	10.0	---	---	8.0	7.0	9.0	8.5
2	18.0	15.0	12.0	11.0	10.5	10.0	6.0	5.5	8.0	7.0	9.0	8.5
3	18.0	15.5	12.0	11.0	10.0	10.0	6.0	5.5	8.0	7.0	8.5	8.5
4	18.0	15.5	13.5	12.0	10.5	9.0	6.0	5.5	8.0	7.0	8.5	8.0
5	18.5	16.0	13.5	12.0	9.5	9.0	5.5	5.0	8.0	7.0	8.5	8.0
6	18.5	16.5	13.0	12.0	---	---	6.0	5.0	8.0	7.0	8.5	8.0
7	18.5	16.5	12.0	11.5	---	---	5.5	5.0	8.5	7.0	8.5	7.0
8	18.0	16.5	12.0	11.0	---	---	5.5	5.0	8.5	8.0	9.0	8.0
9	16.5	16.0	12.0	11.0	---	---	6.0	5.0	8.5	8.0	9.0	8.0
10	16.0	15.5	12.0	11.5	---	---	6.0	6.0	8.5	8.0	9.0	8.5
11	16.0	15.5	12.0	11.0	---	---	6.5	6.0	8.5	8.0	9.5	8.5
12	16.0	15.0	12.0	11.5	---	---	7.0	6.5	8.0	7.0	9.5	8.5
13	16.5	15.0	11.5	11.5	---	---	8.0	8.0	8.0	7.0	10.0	8.5
14	16.0	15.5	11.5	11.5	---	---	8.0	7.0	8.0	7.0	10.0	8.5
15	16.0	15.0	11.5	11.5	---	---	8.0	7.0	8.5	8.0	10.5	9.0
16	15.5	15.0	12.0	11.0	---	---	8.5	7.0	8.5	8.0	10.5	9.5
17	16.0	14.5	11.5	11.0	---	---	7.0	6.5	8.5	8.0	11.0	9.5
18	16.0	15.0	11.5	11.0	---	---	7.0	6.5	9.0	8.0	11.5	10.0
19	15.5	14.5	11.5	11.0	---	---	7.0	6.5	9.0	8.0	11.0	10.0
20	15.5	14.5	12.0	11.5	---	---	7.0	6.5	9.0	8.0	10.0	9.5
21	15.0	14.0	11.5	11.0	---	---	7.0	6.5	9.0	8.0	10.0	9.5
22	15.0	14.0	11.5	11.0	---	---	7.0	6.5	9.5	8.5	10.0	9.0
23	15.0	14.0	11.0	10.5	---	---	8.0	7.0	9.5	8.5	10.5	9.5
24	15.0	14.0	11.0	10.5	---	---	8.0	7.0	10.0	9.0	11.0	9.5
25	14.5	13.5	11.0	10.5	---	---	8.0	7.0	10.0	9.0	11.5	10.5
26	14.5	13.5	10.5	10.5	---	---	8.0	7.0	10.5	9.5	12.0	10.5
27	14.5	13.0	11.0	10.5	---	---	8.0	7.0	10.0	10.0	13.5	11.0
28	14.5	13.0	11.0	10.5	---	---	8.0	7.0	10.0	9.5	13.0	11.0
29	14.0	12.0	11.0	10.5	---	---	8.0	7.0	---	---	12.0	10.5
30	12.0	11.0	10.5	10.5	---	---	8.0	7.0	---	---	11.5	11.0
31	11.5	10.5	---	---	---	---	8.5	8.0	---	---	13.0	11.0
MONTH	18.5	10.5	13.5	10.5	---	---	8.5	5.0	10.5	7.0	13.5	7.0



## 11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	11.0	17.0	15.0	19.0	16.5	22.0	19.0	23.0	21.0	19.5	18.0
2	13.0	10.5	16.5	14.5	19.0	16.0	23.0	20.0	21.5	19.5	20.0	18.0
3	13.5	11.0	16.5	14.5	20.5	17.0	23.0	20.0	20.5	18.5	20.5	18.5
4	14.5	11.5	15.5	14.0	20.5	18.5	23.0	20.0	20.5	18.5	20.5	18.5
5	15.0	12.0	16.0	13.5	20.5	19.0	23.0	20.5	21.0	18.5	20.0	18.5
6	16.0	13.0	16.0	14.5	21.0	19.0	21.0	19.0	21.0	19.0	20.0	18.5
7	15.5	13.5	17.0	15.0	21.0	18.5	21.0	19.0	20.0	18.5	20.0	18.0
8	16.0	13.5	17.0	15.0	21.5	19.0	23.0	19.5	20.0	18.0	19.0	17.0
9	16.0	14.0	18.0	15.0	20.5	18.5	23.0	20.5	19.5	18.5	19.5	17.0
10	16.5	14.0	18.5	15.0	20.5	17.0	23.5	20.5	20.0	18.5	19.5	17.0
11	18.0	15.0	18.0	15.0	20.5	18.5	23.0	21.0	20.0	18.5	19.5	17.0
12	17.0	14.5	18.5	15.0	20.5	18.0	23.0	20.5	21.0	18.5	19.5	18.0
13	15.5	14.5	18.0	15.5	19.5	18.0	22.0	20.5	21.0	19.5	19.0	18.0
14	16.5	14.0	19.5	16.0	19.0	17.0	21.5	19.5	21.5	20.0	18.5	16.5
15	16.5	14.5	19.5	16.5	19.5	17.0	21.5	19.5	21.0	19.5	18.0	16.0
16	15.5	14.5	19.5	16.5	19.5	16.5	23.0	19.5	20.5	19.0	17.0	16.0
17	16.0	14.5	19.5	17.0	20.0	18.0	22.0	20.0	21.0	19.0	17.0	15.5
18	14.5	13.0	19.0	16.5	20.0	18.0	21.5	20.0	20.5	18.5	17.0	15.5
19	14.0	12.0	18.0	15.5	21.0	18.5	21.0	19.0	---	---	17.0	15.5
20	13.5	11.5	19.0	16.0	22.0	19.5	20.5	19.0	---	---	18.0	16.0
21	14.0	11.5	20.0	18.0	23.0	19.5	21.0	18.5	---	---	18.5	16.0
22	15.0	13.0	19.0	18.0	20.5	19.0	22.0	20.0	---	---	17.0	16.0
23	15.5	13.5	18.0	16.0	19.0	18.0	21.5	20.0	---	---	17.0	15.5
24	---	---	16.0	14.5	20.5	18.0	21.5	20.0	---	---	17.0	16.0
25	---	---	15.5	14.5	21.0	19.0	21.0	20.0	---	---	17.0	16.0
26	16.0	14.5	16.0	14.0	22.0	20.0	21.5	19.5	---	---	17.0	15.5
27	16.0	14.5	18.5	15.0	23.0	20.0	22.0	19.5	---	---	17.0	15.5
28	16.0	14.0	19.0	16.5	22.0	20.0	22.0	20.0	---	---	17.0	15.5
29	17.0	14.5	20.0	18.0	21.0	19.0	23.5	20.5	---	---	17.0	15.5
30	16.5	15.0	19.0	18.0	21.0	18.5	23.5	21.0	---	---	18.0	15.5
31	---	---	18.0	16.5	---	---	24.0	21.5	---	---	---	---
MONTH	18.0	10.5	20.0	13.5	23.0	16.0	24.0	18.5	---	---	20.5	15.5

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER		
DAY	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	3080	6	50	2720	3	22	2200	3	18
2	3060	6	50	2450	4	26	2190	6	35
3	3060	6	50	2250	4	24	2220	9	54
4	3060	6	50	2200	4	24	2220	8	48
5	3060	6	50	2140	4	23	2210	8	48
6	3090	5	42	2140	4	23	2320	8	50
7	3080	5	42	2180	4	24	2450	8	53
8	3040	5	41	2170	4	23	2860	6	46
9	3050	4	33	2170	4	23	2960	4	32
10	3120	4	34	2200	5	30	2960	5	40
11	3110	4	34	2210	6	36	2980	6	48
12	3100	3	25	2150	6	35	2970	5	40
13	3110	4	34	2190	6	35	2960	4	32
14	3100	4	33	2260	6	37	2960	5	40
15	3050	4	33	2270	7	43	2940	6	48
16	3030	4	33	2260	9	55	2990	5	40
17	3030	5	41	2210	11	66	3070	4	33
18	3040	6	49	2180	9	53	3060	4	33
19	3060	4	33	2180	8	47	3100	4	33
20	3120	2	17	2170	7	41	3090	4	33
21	3100	3	25	2170	8	47	3070	3	25
22	3040	4	33	2170	6	35	3050	3	25
23	3000	4	32	2170	8	47	3010	2	16
24	3030	5	41	2150	7	41	2970	6	48
25	3070	5	41	2180	6	35	2940	9	71
26	3090	4	33	2200	5	30	2970	9	72
27	3160	4	34	2180	4	24	3000	9	73
28	3140	3	25	2190	4	24	3000	10	81
29	3080	3	25	2200	5	30	2950	10	80
30	3090	3	25	2190	4	24	2950	10	80
31	3150	3	26	--	--	--	2890	10	78
TOTAL	95400	--	1114	66500	--	1027	87510	--	1453

## SACRAMENTO RIVER BASIN

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	2890	12	94	8760	8	189	17100	8	369
2	2890	13	101	8780	9	213	16900	11	502
3	3110	12	101	8720	12	283	16300	6	264
4	3970	12	129	8750	14	331	15800	6	256
5	4200	11	125	9060	13	318	15500	7	293
6	4620	10	125	9930	12	322	15500	8	335
7	6080	10	164	10100	10	273	15800	8	341
8	7290	10	197	10000	7	189	15800	7	299
9	7960	8	172	10900	6	177	15200	6	246
10	7840	8	169	11500	7	217	12100	9	294
11	7810	8	169	14700	8	318	10500	11	312
12	11700	9	284	15000	10	405	7010	12	227
13	18500	9	450	14300	9	347	4510	10	122
14	18000	9	437	12300	7	232	3540	10	96
15	17900	8	387	10900	6	177	2920	7	55
16	26800	23	2290	10800	6	175	2690	8	58
17	45300	67	8150	10700	5	144	2510	10	68
18	45200	59	7200	10600	5	143	2270	11	67
19	42800	51	5970	10700	5	144	2250	6	36
20	28100	21	1590	8880	6	144	2470	4	27
21	17300	12	561	6340	5	86	4720	5	64
22	11400	10	308	6050	6	98	9500	8	205
23	8120	8	175	4990	6	81	8110	5	109
24	7200	7	136	4070	6	66	4860	6	79
25	7100	6	115	3110	5	42	3980	7	75
26	6970	5	94	3360	6	54	3420	8	74
27	6790	5	92	11600	9	282	2610	7	49
28	6610	6	107	17400	16	752	2460	10	66
29	6840	6	111	--	--	--	2280	10	62
30	7680	5	104	--	--	--	2120	10	57
31	8020	7	152	--	--	--	1960	10	53
TOTAL	406990	--	30259	272300	--	6202	242690	--	5160

DAY	APRIL			MAY			JUNE		
	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	1900	10	51	2990	17	137	3040	14	115
2	1890	11	56	2980	15	121	2880	14	109
3	1840	10	50	2990	12	97	2820	14	107
4	1740	8	38	3000	12	97	2820	14	107
5	1660	10	45	2960	13	104	2840	14	107
6	1490	11	44	2960	14	112	2840	15	115
7	1350	11	40	2960	12	96	2830	16	122
8	1320	12	43	2970	10	80	2850	18	139
9	1310	12	42	2960	9	72	2820	20	152
10	1310	12	42	2940	8	64	2770	15	112
11	1310	11	39	2940	8	64	2820	9	69
12	1320	10	36	2900	7	55	2850	9	69
13	1330	16	57	2530	7	48	2820	9	69
14	1800	20	97	2500	6	41	2620	10	71
15	2630	22	156	2490	6	40	2370	10	64
16	3010	23	187	2470	6	40	2310	10	62
17	3000	24	194	2480	6	40	2280	10	62
18	3400	24	220	2910	6	47	2280	10	62
19	3950	24	256	3450	6	56	2300	11	68
20	3950	24	256	3440	6	56	2310	11	69
21	3920	20	212	3730	7	70	2320	11	69
22	3900	14	147	6200	9	151	2430	12	79
23	3940	15	160	6800	12	220	2750	13	97
24	3910	16	169	5560	10	150	2720	13	95
25	3920	17	180	4650	9	113	2760	14	104
26	3960	18	192	3880	8	84	2760	12	89
27	3940	19	202	3800	10	103	2740	9	67
28	3920	20	212	3810	11	113	2730	8	59
29	3130	20	169	3810	11	113	2740	7	52
30	2980	19	153	3830	11	114	2760	8	60
31	--	--	--	3660	13	128	--	--	--
TOTAL	79030	--	3745	107550	--	2826	80180	--	2621

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JULY			AUGUST			SEPTEMBER		
	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	2680	8	58	4680	11	139	2800	5	38
2	2680	7	51	5390	12	175	2770	5	37
3	2710	5	37	5200	13	183	3170	5	43
4	2690	7	51	4750	14	180	3280	6	53
5	2680	10	72	4770	9	116	3330	6	54
6	2680	10	72	4790	7	91	3350	5	45
7	2660	10	72	4770	6	77	3330	5	45
8	2590	10	70	4350	6	70	3270	6	53
9	2640	11	78	4300	6	70	3270	7	62
10	2640	11	78	4300	6	70	3320	8	72
11	2700	11	80	4300	7	81	3350	8	72
12	2750	11	82	4300	8	93	3380	8	73
13	2800	11	83	4230	9	103	3380	9	82
14	2790	12	90	3750	9	91	3400	7	64
15	2820	13	99	3760	9	91	3380	5	46
16	3040	13	107	3800	5	51	3370	4	36
17	3380	14	128	3780	4	41	3430	4	37
18	3420	15	139	3750	4	41	3450	6	56
19	3440	16	149	3740	4	40	3430	7	65
20	3460	12	112	3680	4	40	3440	6	56
21	3470	8	75	3200	4	35	3390	5	46
22	3430	9	83	2870	4	31	3400	5	46
23	3450	10	93	2870	4	31	3370	4	36
24	3480	11	103	2780	4	30	3380	4	37
25	3530	12	114	2740	4	30	3380	4	37
26	3500	12	113	2740	4	30	3420	5	46
27	3500	12	113	2770	5	37	3160	6	51
28	3500	10	95	2800	5	38	2900	6	47
29	3500	8	76	2850	5	38	2850	5	38
30	3500	9	85	2820	5	38	2820	5	38
31	3510	10	95	2850	5	38	--	--	--
TOTAL	95620	--	2753	117680	--	2219	97970	--	1511
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									1749420
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)									60890

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV.										
22...	0930	10.5	2170	6	35	86	100	--	--	--
JAN.										
08...	1045	6.5	7140	13	251	46	55	69	89	100
19...	1320	--	44200	47	5610	32	34	50	81	100
JUNE										
16...	1445	20.0	2320	9	56	100	--	--	--	--

LOCATION.--Lat 39°08'20", long 121°36'17", in New Helvetia Grant (revised) T.15 N., R.3 E., Yuba County, at gaging station on left bank, at 5th Street railroad bridge in Yuba City, 0.7 mile upstream from confluence with Yuba River, and at mile 28.0 upstream from mouth.

PERIOD OF RECORD.--Water temperatures: July 1964 to September 1973.  
Sediment records: October 1964 to September 1973.

Sediment concentrations: Maximum daily, 560 mg/l Jan. 12, Feb. 28; minimum daily, 8 mg/l Nov. 3, 4.  
Sediment discharge: Maximum daily, 54,100 tons Jan. 13; minimum daily, 45 tons Nov. 4.

Water temperatures (1964-67): Maximum, 32.0°C July 29, 1964; minimum (1964-65), 3.0°C on several days in 1965.  
Sediment concentrations: Maximum daily, 786 mg/l Dec. 24, 1964; minimum daily, 6 mg/l Jan. 9, 10, 1969.  
Sediment discharge: Maximum daily, 334,000 tons Dec. 24, 1964; minimum daily, 12 tons Oct. 27, 1966.

[illegible]

## SACRAMENTO RIVER BASIN

387

11407700 FEATHER RIVER AT YUBA CITY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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	3050	19	156	2800	17	129	2210	14	84
2	3030	19	155	2380	13	84	2220	12	72
3	3070	22	182	2210	8	48	2220	12	72
4	3090	22	184	2070	8	45	2190	15	89
5	3120	19	160	2050	9	50	2250	13	79
6	3120	18	152	2050	9	50	2410	14	91
7	3120	20	168	2060	9	50	2440	10	66
8	3100	23	193	2110	13	74	2710	13	95
9	3080	25	208	2120	16	92	2940	16	127
10	3200	22	190	2180	15	88	2970	18	144
11	3230	20	174	2260	20	122	2950	16	127
12	3230	20	174	2430	20	131	3210	16	139
13	3230	24	209	2290	13	80	3000	20	162
14	3220	24	209	2230	25	151	2950	21	167
15	3170	21	180	3270	59	521	2970	16	128
16	3150	20	170	3160	45	384	3040	22	181
17	3150	20	170	3360	45	408	4390	60	711
18	3080	22	183	2790	28	211	5640	135	2060
19	3110	23	193	2490	18	121	6200	120	2010
20	3130	20	169	2460	13	86	4960	105	1410
21	3100	18	151	2360	12	76	4090	40	442
22	3020	16	130	2250	11	67	3830	30	310
23	2960	17	136	2220	11	66	3410	29	267
24	2910	17	134	2170	11	64	3180	24	206
25	2970	16	128	2180	12	71	3090	20	167
26	2960	16	128	2150	12	70	2940	20	159
27	3010	18	146	2170	14	82	2870	24	186
28	3000	17	138	2180	13	77	2840	24	184
29	2930	16	127	2180	15	88	2800	23	174
30	2920	19	150	2180	16	94	2690	21	153
31	2980	22	177	--	--	--	2530	19	130
TOTAL	95440	--	5124	70810	--	3680	98140	--	10392

DAY	JANUARY			FEBRUARY			MARCH		
	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	2450	17	112	9080	125	3060	22500	235	14300
2	2390	16	103	8650	125	2920	19000	70	3590
3	2360	19	121	8430	120	2730	17500	40	1890
4	2910	33	259	8520	110	2530	17400	140	6580
5	3450	53	494	9190	115	2850	16800	162	7350
6	3580	70	677	9680	135	3530	16100	160	6960
7	4450	125	1500	11300	160	4880	17600	210	9980
8	5840	260	4100	11500	175	5430	16900	189	8620
9	7250	350	6850	10900	140	4120	16300	130	5720
10	10600	450	12900	12700	240	8230	13800	80	2980
11	9080	290	7110	18000	235	11400	11700	52	1640
12	16100	560	24300	18000	185	8990	8370	37	836
13	41200	486	54100	16300	155	6820	5490	44	652
14	33000	243	21700	14100	135	5140	3710	38	381
15	20500	171	9460	14100	125	4760	3580	34	329
16	17500	252	11900	12300	99	3290	2050	26	144
17	49200	182	24200	11400	83	2550	2280	22	135
18	46000	182	22600	10800	83	2420	2030	19	104
19	54600	140	20600	10600	87	2490	1870	18	91
20	48400	158	20600	10200	92	2530	1850	24	120
21	27300	232	17100	6670	62	1120	2660	60	431
22	16200	243	10600	6030	20	326	7770	180	3780
23	10300	200	5560	5130	46	637	9060	130	3180
24	8230	125	2780	4280	60	693	5570	90	1350
25	7500	110	2230	3890	53	557	3900	60	632
26	7560	160	3270	2890	40	312	3520	30	285
27	7440	120	2410	6400	170	2940	2580	22	153
28	6860	90	1670	21400	560	32400	2240	20	121
29	6590	90	1600	--	--	--	2110	40	228
30	5900	150	2390	--	--	--	1910	28	144
31	9740	115	3020	--	--	--	1750	50	236
TOTAL	494480	--	296316	292440	--	129655	259900	--	82942

## SACRAMENTO RIVER BASIN

11407700 FEATHER RIVER AT YUBA CITY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	1970	110	585	3000	38	308	3580	37	358
2	1590	92	395	3080	33	274	3150	35	298
3	1620	80	350	3160	30	256	3020	35	285
4	1510	44	179	3250	30	263	2980	34	274
5	1440	58	226	3210	34	295	2950	34	271
6	1320	52	185	3150	45	383	2940	34	270
7	1110	50	150	3260	64	563	2880	32	249
8	1040	49	138	3200	54	467	2830	30	229
9	1290	48	167	3120	47	396	2830	30	229
10	1290	42	146	3100	43	360	2780	32	240
11	1260	38	129	3130	40	338	2790	32	241
12	1250	28	95	3150	38	323	2810	30	228
13	1270	30	103	2990	36	291	2750	29	215
14	1420	41	157	2800	35	265	2750	25	186
15	2180	62	365	2810	32	243	2440	23	152
16	2840	110	843	2760	30	224	2370	22	141
17	2950	83	661	2690	30	218	2370	23	147
18	2960	72	575	2750	33	245	2360	24	153
19	3760	140	1420	3550	60	575	2310	24	150
20	3910	110	1160	3670	94	931	2340	24	152
21	3890	86	903	3730	62	624	2340	24	152
22	3820	70	722	4840	58	758	2360	25	159
23	3850	60	624	7180	120	2330	2710	27	198
24	3870	64	669	6310	110	1870	2860	50	386
25	3870	56	585	5380	84	1220	2860	39	301
26	3920	52	550	4440	64	767	2870	34	263
27	3930	47	499	4100	52	576	2870	32	248
28	3900	44	463	4110	47	522	2850	31	239
29	3580	42	406	3990	43	463	2870	30	232
30	3020	39	318	4000	41	443	2930	28	222
31	--	--	--	4000	39	421	--	--	--
TOTAL	75630	--	13768	113910	--	17212	82750	--	6868

## SACRAMENTO RIVER BASIN

389

11407700 FEATHER RIVER AT YUBA CITY, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SED- IMENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.											
12...	1110	16.0	3230	17	148	69	73	80	100	--	--
NOV.											
22...	1130	10.5	2250	11	67	85	100	--	--	--	--
JAN.											
10...	1220	8.0	10600	531	15200	18	36	72	91	98	100
17...	0715	9.5	49200	281	37300	39	46	70	96	100	--
19...	1710	--	54600	113	16700	49	60	76	93	97	100
FEB.											
16...	1010	8.0	12300	103	3420	17	26	48	72	100	--
28...	1215	12.0	21400	759	43900	24	33	52	80	99	100
MAR.											
02...	0835	9.0	19000	63	3230	45	52	75	100	--	--
12...	0835	9.5	8370	38	859	50	63	100	--	--	--
APR.											
02...	1035	13.0	1590	80	343	99	100	--	--	--	--
JUNE											
16...	1120	20.0	2370	10	64	100	--	--	--	--	--

## SACRAMENTO RIVER BASIN

11409400 OREGON CREEK BELOW LOG CABIN DAM, NEAR CAMPTONVILLE, CALIF.

LOCATION.--Lat 39°26'22", long 121°03'29", in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.11, T.18 N., R.8 E., Yuba County, Tahoe National Forest, temperature recorder at gaging station on right bank 500 ft downstream from Log Cabin Dam, 670 ft upstream from High Point Ravine, and 1.1 miles southwest of Camptonville. Prior to July 24, 1973, at site 470 ft downstream.

DRAINAGE AREA.--29.1 sq mi.

PERIOD OF RECORD.--Water temperatures: August 1971 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Minimum, 0.5°C Dec. 11-14.

Period of record:

Water temperatures: Maximum (1971-72), 25.0°C July 16-18, 1972; minimum, 0.5°C Dec. 11-14, 1972.

REMARKS.--No record July 23 to Sept. 30.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.5	8.5	7.5	4.5	4.0	3.0	2.5	5.0	4.5	7.5	7.0
2	17.0	16.0	9.5	8.5	4.5	4.0	3.5	2.5	5.5	4.5	7.0	5.5
3	17.5	16.5	10.0	9.0	5.0	4.0	3.5	2.5	5.5	5.0	7.0	5.5
4	17.0	16.5	10.5	10.0	5.0	4.0	2.5	1.5	5.5	4.5	6.5	5.0
5	17.5	16.5	10.0	9.0	4.0	2.0	1.5	1.0	7.0	5.5	6.5	5.5
6	17.0	16.5	9.0	8.5	2.0	1.5	1.5	1.0	7.0	6.5	6.5	6.0
7	16.5	16.0	8.5	8.5	2.0	1.5	1.5	1.0	7.5	7.0	7.0	5.5
8	16.5	16.0	8.5	8.0	1.5	1.0	1.5	1.0	7.5	6.5	7.5	6.0
9	16.0	16.0	8.0	8.0	1.5	1.0	3.5	1.5	7.5	7.0	8.0	6.5
10	16.0	15.0	8.5	8.0	1.5	1.0	5.0	3.5	7.5	5.5	8.0	7.0
11	15.0	14.0	8.0	8.0	1.5	0.5	6.0	5.0	7.0	5.5	7.0	6.0
12	14.0	13.5	8.0	7.5	1.5	0.5	6.5	6.0	7.0	6.5	6.5	5.5
13	14.0	13.0	8.0	7.5	1.5	0.5	7.0	6.0	7.0	6.5	6.5	5.5
14	14.0	13.5	8.0	8.0	1.5	0.5	6.5	5.5	7.0	6.0	6.5	5.0
15	13.5	13.0	8.5	8.0	1.5	1.0	7.0	6.0	6.5	5.5	7.0	5.0
16	13.0	13.0	8.5	8.0	1.5	1.0	7.0	7.0	6.5	5.5	7.5	6.0
17	13.0	13.0	8.0	7.0	5.0	1.0	7.0	6.0	7.0	5.5	7.5	6.5
18	13.0	13.0	7.5	7.0	6.5	5.0	6.5	6.5	6.5	5.5	7.0	5.5
19	13.0	12.5	7.5	7.0	7.0	6.5	6.5	5.5	6.5	5.5	7.0	6.0
20	13.0	12.5	7.0	6.5	7.0	6.5	6.0	5.0	7.0	6.0	6.5	6.0
21	13.5	13.0	7.0	6.5	7.5	6.5	6.0	5.5	7.0	6.0	6.5	5.5
22	13.0	12.5	7.0	6.0	8.0	7.0	5.5	5.0	7.0	6.5	7.5	5.5
23	12.5	12.0	6.0	5.5	7.0	6.0	5.0	4.5	7.0	6.5	8.5	6.5
24	12.5	11.5	6.0	5.5	7.0	6.0	6.0	5.0	7.5	7.0	8.5	7.0
25	12.0	11.5	6.0	5.5	6.0	5.5	5.5	4.5	7.5	7.0	9.0	8.0
26	11.5	10.5	6.0	5.5	6.0	5.5	4.5	3.5	7.5	7.0	9.0	8.0
27	11.0	10.5	6.0	5.5	6.0	5.5	4.0	3.5	7.5	6.5	9.5	8.5
28	10.5	9.5	5.5	5.0	6.0	4.0	4.0	3.5	7.5	6.0	8.5	7.0
29	9.5	8.5	5.5	5.0	4.0	3.0	4.5	3.5	---	---	7.5	6.0
30	8.5	7.0	5.0	4.5	3.5	3.0	4.5	3.5	---	---	7.0	7.0
31	7.5	7.0	---	---	3.5	2.5	5.0	4.5	---	---	8.0	7.0
MONTH	17.5	7.0	10.5	4.5	8.0	0.5	7.0	1.0	7.5	4.5	9.5	5.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	6.5	11.5	9.0	16.0	13.5	21.5	20.0	---	---	---	---
2	8.0	6.0	12.0	10.0	16.0	14.0	21.5	20.0	---	---	---	---
3	8.5	6.5	12.0	10.0	16.5	14.0	21.5	20.0	---	---	---	---
4	9.5	7.0	12.0	9.0	17.0	14.0	22.0	20.5	---	---	---	---
5	10.0	8.0	10.0	8.0	18.0	15.0	23.0	20.5	---	---	---	---
6	10.5	8.5	12.0	9.0	18.0	15.5	23.0	21.0	---	---	---	---
7	10.5	8.5	13.0	11.0	19.0	16.0	22.5	21.0	---	---	---	---
8	10.0	7.0	13.0	11.0	20.0	18.0	23.0	21.0	---	---	---	---
9	10.5	9.0	13.0	11.0	20.0	18.0	23.0	21.5	---	---	---	---
10	10.5	8.5	13.5	11.5	20.0	18.0	23.0	21.5	---	---	---	---
11	11.0	8.5	14.0	12.0	19.5	17.5	23.5	21.5	---	---	---	---
12	10.5	9.0	14.0	12.0	19.5	18.0	23.0	21.5	---	---	---	---
13	10.5	8.0	14.0	12.0	19.5	18.0	23.0	21.0	---	---	---	---
14	10.0	7.5	13.5	11.5	18.0	16.0	23.5	21.5	---	---	---	---
15	10.0	8.5	14.0	11.5	17.0	15.5	24.5	22.0	---	---	---	---
16	9.5	8.0	14.5	12.0	17.0	15.0	23.5	22.5	---	---	---	---
17	10.0	9.0	15.0	12.5	17.0	15.0	23.5	22.5	---	---	---	---
18	9.5	7.0	15.0	13.0	17.5	15.0	23.5	22.5	---	---	---	---
19	9.5	7.5	14.5	13.0	18.5	16.0	23.5	22.0	---	---	---	---
20	9.5	7.5	14.0	12.0	19.5	17.5	22.5	21.5	---	---	---	---
21	9.5	7.5	14.5	12.0	20.0	18.5	22.5	21.0	---	---	---	---
22	11.5	9.0	15.0	13.0	20.0	19.0	22.0	21.0	---	---	---	---
23	12.5	10.0	15.5	13.5	19.0	18.0	---	---	---	---	---	---
24	12.5	10.0	15.0	13.0	19.0	17.0	---	---	---	---	---	---
25	13.0	10.0	14.0	12.5	20.5	18.5	---	---	---	---	---	---
26	13.0	10.5	14.0	11.5	22.0	20.0	---	---	---	---	---	---
27	13.0	10.5	15.0	12.0	22.5	21.5	---	---	---	---	---	---
28	12.5	10.0	16.0	13.5	23.5	22.0	---	---	---	---	---	---
29	12.0	10.0	17.0	15.0	23.5	21.5	---	---	---	---	---	---
30	11.0	9.0	17.0	15.5	22.5	21.0	---	---	---	---	---	---
31	---	---	16.5	14.0	---	---	---	---	---	---	---	---
MONTH	13.0	6.0	17.0	8.0	23.5	13.5	---	---	---	---	---	---



## SACRAMENTO RIVER BASIN

391

11413520 NORTH YUBA RIVER BELOW NEW BULLARDS BAR DAM, NEAR NORTH SAN JUAN, CALIF.

LOCATION.--Lat 39°22'48", long 121°08'19", in SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.36, T.18 N., R.7 E., Yuba County, Plumas National Forest, temperature recorder at gaging station on right bank, 1.1 miles downstream from New Bullards Bar Dam, and 2 miles northwest of North San Juan.

DRAINAGE AREA.--490 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1969, July 1971 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 20.0°C July 31, Aug. 1, 2; minimum, 3.0°C Dec. 11, 13, 14.

Period of record:

Water temperatures: Maximum (1966-69, 1971-73), 25.0°C July 7, 9, 21, 1968; minimum, 2.0°C on many days in 1967 and 1968.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	11.0	9.5	8.5	8.0	6.5	7.0	6.0	8.0	6.5	9.0	8.5
2	14.5	11.0	10.0	8.0	8.0	6.5	7.0	5.5	8.0	6.5	11.0	8.0
3	14.5	11.5	9.5	8.5	7.5	7.0	7.5	6.0	7.5	7.0	8.5	8.0
4	14.0	11.5	10.0	9.5	7.5	6.0	6.5	5.0	8.0	7.0	9.0	8.0
5	14.5	11.5	10.0	9.0	7.0	5.5	6.5	5.0	9.0	7.5	10.5	7.5
6	14.5	11.5	10.0	9.0	6.0	4.5	6.5	5.0	8.0	8.0	8.0	7.5
7	13.5	12.0	9.5	9.0	6.0	4.5	6.0	4.5	9.0	8.0	9.0	7.5
8	14.0	12.0	9.5	9.0	6.0	4.5	5.0	4.5	9.5	8.0	10.0	7.5
9	12.5	12.0	10.0	8.5	5.0	3.5	5.5	5.0	9.0	8.0	10.0	7.5
10	12.5	11.5	9.0	9.0	5.0	3.5	6.0	5.5	8.5	8.0	8.5	7.5
11	12.0	11.0	9.0	8.5	5.0	3.0	8.0	6.0	9.5	8.5	10.5	7.5
12	12.0	11.0	9.5	8.0	4.5	3.5	5.0	8.0	9.0	8.5	10.5	7.5
13	12.5	10.5	8.5	8.5	4.5	3.0	5.5	8.5	9.5	8.5	10.0	7.5
14	11.5	10.5	9.0	8.5	4.5	3.0	9.5	8.0	8.5	8.5	10.5	7.0
15	11.0	10.5	9.0	8.5	4.5	4.0	9.0	8.5	10.0	8.0	10.5	7.0
16	11.0	10.5	9.5	8.5	4.5	4.5	9.5	9.0	10.0	8.0	9.5	7.5
17	12.5	10.5	9.0	8.0	5.5	4.5	9.5	9.0	10.0	7.5	10.0	7.5
18	12.5	10.5	9.0	8.5	7.0	5.5	9.5	9.0	10.0	7.5	10.5	7.0
19	12.0	10.0	9.0	8.5	7.0	6.5	9.5	8.0	10.0	7.5	8.5	7.5
20	12.5	10.5	9.0	8.0	7.5	7.0	9.0	8.0	10.0	7.5	8.0	7.5
21	12.5	10.5	9.0	8.0	8.0	7.0	9.0	7.5	10.0	7.5	7.5	7.0
22	12.5	10.5	8.5	7.5	8.5	8.0	8.5	7.0	10.0	7.5	10.5	7.0
23	12.5	10.5	8.5	7.0	8.5	7.5	8.5	6.5	9.0	7.5	10.5	6.5
24	12.5	10.0	8.5	7.5	8.5	7.5	7.5	6.5	8.5	8.0	10.5	7.0
25	12.0	10.0	8.0	7.5	8.0	7.5	7.5	6.5	9.0	8.0	10.5	7.5
26	11.5	10.0	8.0	7.5	8.5	7.0	8.0	6.5	8.5	8.0	10.5	8.0
27	12.0	9.5	8.0	7.0	8.0	7.5	7.5	6.0	9.0	8.0	11.0	8.0
28	10.5	9.5	8.0	7.0	8.0	6.5	8.0	6.0	9.5	8.5	10.0	8.0
29	10.5	8.5	8.0	7.0	7.5	6.5	6.5	6.0	---	---	10.0	7.5
30	10.0	8.0	8.0	7.0	7.5	6.5	7.5	6.0	---	---	9.5	8.0
31	10.0	8.0	---	---	7.0	6.0	7.5	6.5	---	---	10.0	8.0
MONTH	14.5	8.0	10.0	7.0	8.5	3.0	9.5	4.5	10.0	6.5	11.0	6.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	7.5	15.0	10.5	17.0	13.0	19.0	14.0	20.0	15.0	17.5	13.0
2	11.0	7.5	15.0	10.0	17.5	13.0	19.0	14.0	20.0	15.0	17.5	13.0
3	11.5	7.5	14.5	10.5	18.0	13.0	19.5	14.0	19.5	14.5	17.5	13.0
4	12.0	7.5	11.0	10.0	18.0	13.0	19.0	13.5	19.0	14.5	17.5	12.5
5	12.0	6.5	13.0	10.0	18.0	13.0	18.5	14.0	19.0	14.5	17.0	12.5
6	12.5	7.0	14.0	10.0	18.0	13.0	18.5	13.5	19.0	14.5	17.0	12.5
7	11.5	6.0	15.0	10.0	18.0	13.0	18.5	14.0	19.0	14.5	17.0	12.5
8	12.0	6.0	14.5	10.0	18.5	13.5	19.0	14.0	19.0	14.0	17.0	12.5
9	12.5	9.5	15.5	10.5	18.5	13.5	19.0	14.0	19.0	14.0	17.0	13.0
10	13.5	9.5	16.0	10.5	17.5	13.5	19.0	14.5	19.0	14.0	17.0	12.5
11	12.5	9.0	16.0	11.0	18.5	13.5	19.0	14.5	19.0	14.0	17.0	12.5
12	12.5	9.0	16.5	11.5	18.0	13.5	19.0	14.5	19.0	14.0	17.0	12.5
13	11.0	9.5	16.5	12.0	17.5	13.5	19.5	14.5	19.0	14.0	17.0	13.0
14	13.0	9.5	16.5	12.5	15.5	13.0	19.5	15.0	19.0	14.0	17.0	12.5
15	11.5	9.5	17.0	12.5	17.0	13.0	19.5	15.0	19.0	14.0	16.5	12.5
16	11.5	9.5	18.0	13.0	16.5	13.0	19.5	15.0	19.0	13.5	16.5	12.5
17	11.5	8.5	18.0	13.0	16.5	12.5	19.5	15.0	18.5	13.5	16.0	12.0
18	13.0	7.5	18.5	13.5	17.0	12.0	19.5	15.5	18.5	13.5	16.0	12.0
19	13.0	8.5	18.5	13.5	17.5	12.0	19.5	15.0	18.0	13.5	15.5	12.0
20	13.0	8.5	18.0	13.5	17.5	12.5	19.0	15.0	18.0	13.0	16.0	12.5
21	13.5	8.5	18.0	13.5	17.5	12.5	19.0	14.5	17.5	13.0	16.0	12.0
22	13.0	8.5	18.0	13.5	15.5	13.0	19.0	14.5	17.5	12.5	13.0	12.0
23	14.0	9.0	18.0	13.0	14.5	13.0	19.0	14.5	17.0	12.5	14.5	12.0
24	14.0	9.0	14.0	13.0	17.5	13.0	19.0	14.0	16.0	12.0	13.0	12.0
25	14.5	9.5	16.0	12.5	18.0	13.0	19.0	14.0	17.0	12.5	15.0	11.0
26	15.0	10.0	16.5	12.0	18.5	13.0	19.0	14.5	17.0	12.5	15.0	11.0
27	14.5	10.5	17.0	12.0	18.0	12.5	19.0	14.5	16.5	12.5	15.0	11.0
28	15.5	10.5	17.5	12.0	19.0	14.0	19.0	14.5	17.5	12.5	15.0	11.0
29	15.0	10.5	17.5	12.5	19.0	14.5	19.5	15.0	17.5	12.5	15.0	11.5
30	15.0	10.5	17.5	13.0	19.0	14.5	19.5	15.0	17.5	13.0	15.0	11.0
31	---	---	15.0	13.0	---	---	20.0	15.0	17.5	13.0	---	---
MONTH	15.5	6.0	16.5	10.0	19.0	12.0	20.0	13.5	20.0	12.0	17.5	11.0

## SACRAMENTO RIVER BASIN

11417500 SOUTH YUBA RIVER AT JONES BAR, NEAR GRASS VALLEY, CALIF.

LOCATION.--Lat 39°17'32", long 121°06'13", in NW¼ sec. 32, T.17 N., R.8 E., Nevada County, at gaging station on left bank at Jones Bar, 100 ft upstream from Rush Creek, 0.9 mile downstream from bridge on State Highway 49, and 5 miles northwest of Grass Valley.

DRAINAGE AREA.--308 sq mi.

PERIOD OF RECORD.--Water temperatures: February 1965 to September 1973.

Sediment records: Water years 1967-73 (partial-record station).

EXTREMES, 1972-73:

Water temperatures: Maximum, 27.0°C July 15-18; minimum, freezing point on several days during December and January.

Period of record:

Water temperatures: Maximum, 27.5°C July 15-17, 1972; minimum, freezing point on several days in most years.

REMARKS.--Clock stopped Feb. 26 to Mar. 12; range in temperature, -6.5°C to 9.5°C. Chart not rotating May 13 to June 2; range in temperature, 13.5°C to 20.0°C.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.0	8.0	6.5	4.5	3.5	3.0	2.0	6.0	5.0	---	---
2	18.0	15.5	9.0	7.5	4.0	3.5	3.0	2.0	6.5	5.5	---	---
3	18.0	16.0	9.5	8.5	5.5	4.0	4.0	2.0	7.0	6.5	---	---
4	18.0	16.5	10.5	9.5	5.5	4.0	2.0	1.0	7.0	6.0	---	---
5	18.0		10.5	9.5	4.0	2.0	1.0	0.5	8.0	7.0	---	---
6	17.5	15.5	9.5	8.5	2.0	1.5	1.0	0.0	8.5	8.0	---	---
7	17.0	15.5	9.0	9.0	2.0	1.0	0.5	0.0	8.5	8.0	---	---
8	16.5	15.0	9.0	8.0	1.0	0.0	1.0	0.5	8.5	8.0	---	---
9	16.0	15.5	8.5	7.5	0.5	0.0	4.5	1.0	8.5	8.0	---	---
10	15.5	15.0	8.5	8.0	0.5	0.0	5.5	4.5	8.5	7.0	---	---
11	15.0	13.5	8.5	7.5	0.5	0.0	7.0	5.5	7.5	7.0	---	---
12	13.5	12.5	7.5	6.0	0.5	0.0	7.0	6.5	8.0	7.5	---	---
13	14.0	12.5	7.5	7.0	0.5	0.0	7.5	7.0	8.0	7.5	8.0	7.0
14	14.0	13.0	7.5	7.5	0.5	0.0	7.0	6.0	8.0	7.5	7.5	6.0
15	13.5	13.0	8.5	7.5	0.5	0.0	8.0	6.5	8.0	7.0	8.0	6.0
16	13.0	12.5	8.0	7.5	0.5	0.0	8.0	7.5	8.0	6.5	9.0	7.5
17	14.0	12.0	7.5	6.5	5.0	0.5	7.5	7.0	8.0	6.5	9.5	9.0
18	13.0	12.0	7.5	6.5	7.0	5.0	7.5	7.0	8.0	6.5	9.0	7.0
19	13.0	11.5	8.0	7.0	7.0	6.5	7.0	6.0	8.0	6.5	8.5	7.5
20	13.5	12.0	7.0	6.0	7.5	7.0	6.0	5.0	8.5	7.0	8.0	7.5
21	14.0	12.5	6.5	5.5	8.0	7.0	6.5	6.0	8.5	7.0	7.5	7.0
22	13.5	12.0	6.5	6.0	8.5	7.5	6.0	5.0	9.0	7.5	8.5	6.0
23	13.5	12.0	6.0	4.5	7.5	7.0	5.5	5.0	8.5	7.5	9.5	7.0
24	12.5	11.5	4.5	4.0	7.5	6.5	6.0	5.0	9.0	8.5	10.0	8.0
25	12.0	10.5	4.5	4.0	6.5	5.5	6.0	5.5	9.5	8.5	11.0	9.0
26	11.5	10.5	5.0	4.5	6.0	5.0	5.5	4.5	---	---	11.0	9.5
27	11.0	9.5	5.0	4.5	6.0	5.5	5.0	4.0	---	---	11.5	10.5
28	10.0	9.0	5.0	4.5	6.0	4.0	5.0	4.0	---	---	10.5	8.5
29	9.5	7.0	5.0	4.0	4.0	3.0	5.5	4.5	---	---	9.0	7.0
30	7.0	6.0	5.0	3.5	3.0	2.5	6.0	5.0	---	---	8.0	7.5
31	7.0	5.5	---	---	3.0	2.5	6.5	6.0	---	---	9.0	8.0
MONTH	18.0	5.5	10.5	3.5	8.5	0.0	8.0	0.0	9.5	5.0	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	7.5	13.5	10.0	---	---	23.5	20.0	26.0	22.5	21.5	18.5
2	9.0	7.0	14.0	11.0	---	---	23.5	20.0	25.5	22.0	21.0	17.5
3	9.0	7.0	14.0	12.0	17.0	15.5	24.0	20.5	25.5	21.5	21.5	18.0
4	11.0	8.0	12.5	9.5	17.0	15.5	24.5	20.5	25.0	21.5	21.5	18.0
5	12.0	9.0	11.0	9.0	19.0	16.0	25.0	21.5	25.0	21.5	21.5	18.5
6	13.0	10.0	13.0	9.5	22.0	17.0	24.5	21.5	25.0	22.0	21.5	18.5
7	12.5	10.5	15.5	12.0	23.0	18.5	24.5	21.0	25.0	21.5	21.5	18.5
8	12.0	9.0	16.0	13.0	22.0	19.5	25.0	21.0	24.5	21.5	21.0	17.5
9	12.5	10.5	16.0	13.0	21.5	19.0	26.0	22.0	24.0	20.5	21.5	18.0
10	12.5	10.5	16.5	13.0	21.5	19.0	26.5	23.0	24.5	20.5	21.5	18.5
11	13.5	10.5	17.0	14.0	21.5	18.0	26.5	23.0	24.5	21.0	21.5	18.5
12	12.5	11.0	17.5	14.0	22.0	18.5	26.0	22.0	25.0	21.5	22.0	18.5
13	11.5	9.5	---	---	21.0	18.0	26.0	22.5	24.5	21.0	22.0	19.0
14	11.0	9.0	---	---	19.5	16.5	26.5	23.5	24.5	21.0	20.5	18.0
15	11.0	9.5	---	---	19.5	16.0	27.0	24.0	24.5	21.5	20.0	17.0
16	10.5	9.0	---	---	19.0	16.5	27.0	24.0	24.0	20.5	19.5	16.5
17	11.5	9.5	---	---	19.5	16.5	27.0	24.0	23.0	19.5	19.0	16.5
18	10.5	8.5	---	---	20.0	16.5	27.0	24.0	23.0	19.0	18.5	16.5
19	11.5	8.5	---	---	21.5	17.5	26.0	23.0	22.5	19.0	19.5	16.5
20	11.0	8.5	---	---	23.0	19.0	25.0	22.5	22.5	19.0	19.5	18.0
21	12.0	8.5	---	---	23.5	20.0	25.0	22.0	22.5	19.0	18.0	16.0
22	13.0	9.5	---	---	22.0	19.0	24.5	21.0	22.0	18.5	16.5	15.0
23	14.0	11.0	---	---	20.0	18.5	24.0	20.5	20.5	17.5	16.5	15.0
24	14.5	11.5	---	---	22.0	18.0	24.0	20.0	19.5	17.0	15.5	15.0
25	14.5	11.5	---	---	23.5	19.5	25.0	21.0	20.5	17.5	16.0	13.5
26	15.5	12.5	---	---	25.5	21.5	26.0	22.0	21.0	18.0	16.0	13.5
27	15.0	12.5	---	---	26.0	23.0	26.0	23.0	21.5	18.5	16.5	14.0
28	14.0	12.0	---	---	26.5	23.5	26.0	22.5	22.0	18.5	17.0	14.5
29	14.0	11.5	---	---	25.5	23.0	26.0	23.0	22.5	19.5	17.5	15.0
30	13.0	11.0	---	---	24.5	21.0	26.0	23.0	22.5	19.5	17.0	15.0
31	---	---	---	---	---	---	26.0	22.5	22.0	19.5	---	---
MONTH	15.5	7.0	---	---	26.5	15.5	27.0	20.0	26.0	17.0	22.0	13.5

## SACRAMENTO RIVER BASIN

393

11417500 SOUTH YUBA RIVER AT JONES BAR, NEAR GRASS VALLEY, CALIF.--Continued  
 SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 24...	1300	11.5	85	2	.46
NOV. 30...	1145	4.5	114	2	.62
JAN. 11...	1430	5.5	1640	553	2450
FEB. 07...	1530	8.0	1140	51	157
MAR. 07...	1230	7.0	905	44	108
APR. 02...	1525	8.5	460	16	20
JUNE 05...	1750	19.0	614	9	15
JULY 12...	0830	22.0	56	3	.45
AUG. 02...	1145	23.0	41	1	.11
SEP. 06...	0900	18.5	37	1	.10

## SACRAMENTO RIVER BASIN

11418000 YUBA RIVER BELOW ENGLEBRIGHT DAM, NEAR SMARTVILLE, CALIF.

LOCATION.--Lat 39°14'07", long 121°16'23", in NW¼ sec.23, T.16 N., R.6 E., Yuba County, temperature recorder at gaging station on right bank, 2,000 ft downstream from Englebright Dam, 0.5 mile upstream from Deer Creek, and 2.3 miles northeast of Smartville.

DRAINAGE AREA.--1,108 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1972 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Minimum, 3.0°C Dec. 19, 20.

REMARKS.--Recorder installed Oct. 18. Clock stopped. Nov. 1-3, June 28 to Aug. 12.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	7.5	7.0	6.5	6.5	6.0	5.5	7.0	6.5
2	---	---	---	---	7.0	7.0	6.5	6.0	6.0	6.0	7.5	7.0
3	---	---	8.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	7.5	7.5
4	---	---	7.0	6.0	7.5	6.5	6.0	6.0	6.0	5.5	7.5	7.0
5	---	---	8.0	6.5	7.5	7.5	6.0	6.0	6.0	5.5	7.0	7.0
6	---	---	8.0	8.0	7.5	7.0	6.0	6.0	6.0	5.5	7.0	6.5
7	---	---	8.0	7.0	7.5	6.5	6.0	6.0	6.5	5.5	7.0	7.0
8	---	---	8.0	6.5	7.5	7.0	6.0	6.0	6.5	6.5	7.0	6.5
9	---	---	8.0	7.5	7.5	7.0	6.0	5.0	7.0	6.5	7.0	7.0
10	---	---	7.5	6.5	7.0	7.0	5.0	5.0	6.5	6.0	7.0	6.5
11	---	---	6.5	5.5	7.0	7.0	5.0	4.0	6.5	6.0	7.5	7.0
12	---	---	6.5	6.0	7.0	7.0	4.0	3.5	7.0	6.5	7.5	7.0
13	---	---	7.0	6.5	7.0	7.0	5.0	4.0	7.5	7.0	7.5	7.0
14	---	---	6.5	5.5	7.0	6.5	6.5	5.0	7.5	7.0	7.0	7.0
15	---	---	5.5	4.0	6.5	6.5	6.5	6.0	7.5	7.0	7.0	7.0
16	---	---	7.5	5.0	6.5	6.0	6.5	5.5	7.5	7.0	7.0	6.5
17	---	---	8.0	7.0	6.0	4.5	7.0	6.0	7.5	7.0	6.5	6.5
18	8.0	8.0	7.5	6.0	4.5	3.5	7.0	7.0	7.0	7.0	7.0	6.5
19	8.5	8.0	7.0	5.5	4.0	3.0	8.0	7.0	7.0	7.0	7.0	7.0
20	8.0	8.0	8.0	7.0	6.0	3.0	8.0	7.5	7.0	7.0	7.0	6.5
21	8.5	8.0	7.5	7.0	6.5	5.5	8.0	7.5	7.0	6.5	6.5	6.5
22	8.5	8.0	8.0	7.0	7.0	5.5	7.5	7.5	7.0	6.5	7.0	6.5
23	8.5	8.0	7.5	7.5	7.5	7.0	7.5	7.0	7.0	6.5	7.0	6.5
24	9.0	8.0	7.5	7.0	7.5	6.5	7.0	7.0	7.0	6.5	7.0	6.5
25	9.5	8.5	7.5	7.0	7.5	7.5	7.0	6.5	6.5	6.5	7.0	7.0
26	8.5	8.0	7.5	7.0	7.5	7.0	6.5	6.0	6.5	6.5	7.0	7.0
27	8.5	8.0	7.5	7.0	7.0	6.5	6.0	6.0	6.5	6.5	7.0	7.0
28	8.5	8.0	7.5	7.5	7.0	6.5	6.0	6.0	7.0	6.5	8.0	7.0
29	9.0	8.0	7.5	7.5	7.0	6.5	6.0	6.0	---	---	7.5	7.0
30	8.5	8.0	7.5	7.0	6.5	6.5	6.0	5.5	---	---	7.0	6.5
31	8.0	8.0	---	---	6.5	6.5	6.0	5.5	---	---	7.0	6.5
MONTH	---	---	8.0	4.0	7.5	3.0	8.0	3.5	7.5	5.5	8.0	6.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	6.5	12.0	11.5	17.0	16.5	---	---	---	---	18.5	18.0
2	8.0	7.5	12.5	12.0	17.0	16.5	---	---	---	---	18.0	17.5
3	7.5	7.5	12.5	12.0	17.5	17.0	---	---	---	---	17.5	16.5
4	8.0	7.5	12.5	12.0	17.5	17.0	---	---	---	---	16.0	15.5
5	7.5	7.5	13.0	12.0	17.5	17.0	---	---	---	---	15.5	15.0
6	8.0	7.5	12.5	12.5	17.5	16.5	---	---	---	---	15.0	14.5
7	8.5	7.5	13.0	12.5	17.0	16.0	---	---	---	---	14.5	14.0
8	8.0	8.0	13.0	12.5	17.0	16.5	---	---	---	---	15.0	14.0
9	8.5	8.0	13.5	12.5	17.0	16.0	---	---	---	---	14.5	14.0
10	8.5	8.0	13.5	12.5	17.0	16.0	---	---	---	---	14.5	14.0
11	9.0	8.0	13.5	13.0	17.0	16.0	---	---	---	---	14.5	14.0
12	9.0	8.0	13.5	13.0	17.0	16.5	---	---	---	---	14.5	14.0
13	9.0	8.0	14.0	13.0	17.5	16.5	---	---	18.0	17.0	14.5	14.0
14	9.0	8.5	14.0	13.5	17.5	16.5	---	---	19.0	18.0	14.0	13.5
15	9.0	9.0	14.5	13.5	17.5	16.5	---	---	19.0	18.0	14.0	13.5
16	9.5	8.5	14.0	14.0	17.5	17.0	---	---	19.0	18.0	14.0	13.5
17	9.0	8.5	14.5	14.0	18.0	17.0	---	---	19.0	18.0	14.5	13.5
18	9.5	9.0	14.5	14.0	18.0	17.0	---	---	18.5	18.0	14.0	13.5
19	9.5	8.5	15.0	14.0	18.0	17.5	---	---	18.5	18.0	14.0	13.5
20	10.5	9.0	15.0	14.5	18.0	17.5	---	---	19.0	18.0	14.0	13.5
21	10.0	9.0	15.0	14.5	18.0	17.5	---	---	19.0	18.0	14.0	13.5
22	10.5	9.5	15.5	15.0	18.0	17.5	---	---	18.5	18.0	14.0	13.5
23	10.5	9.5	16.0	15.0	18.0	17.5	---	---	18.5	18.0	14.0	13.5
24	11.0	10.0	16.0	15.5	18.5	17.5	---	---	18.5	18.0	13.5	13.0
25	11.0	10.5	16.5	15.5	19.0	17.5	---	---	18.5	18.0	13.5	13.0
26	11.5	10.5	17.0	16.0	18.5	17.5	---	---	18.5	18.0	13.0	12.5
27	11.5	10.5	17.0	16.0	18.0	17.5	---	---	18.5	18.0	12.5	11.5
28	11.5	11.0	17.0	16.0	---	---	---	---	18.5	18.0	12.0	11.0
29	11.5	11.5	17.0	16.5	---	---	---	---	18.5	18.0	11.5	11.0
30	12.0	11.5	17.0	16.5	---	---	---	---	18.5	18.0	11.5	11.0
31	---	---	17.0	16.5	---	---	---	---	18.5	18.0	---	---
MONTH	12.0	6.5	17.0	11.5	19.0	16.0	---	---	---	---	18.5	11.0

## SACRAMENTO RIVER BASIN

395

11421000 YUBA RIVER NEAR MARYSVILLE, CALIF.

LOCATION.--Lat 39°10'33", long 121°31'26", in New Helvetia Grant, Yuba County, temperature recorder at gaging station on left bank, 4.2 miles northeast of Marysville, and 5 miles downstream from Dry Creek.

DRAINAGE AREA.--1,339 sq mi.

PERIOD OF RECORD.--Water temperatures: November 1972 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Maximum, 26.0°C July 29; minimum, 5.5°C Jan. 4-8.

REMARKS.--No record Apr. 24 to May 1, 7-10, when probe was out of water.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	8.0	7.5	8.0	6.0	8.0	6.0	9.0	8.0
2	---	---	---	---	8.0	7.5	7.5	6.0	7.5	6.5	10.0	7.5
3	---	---	---	---	8.0	7.5	7.5	6.0	7.0	6.5	8.5	8.0
4	---	---	---	---	8.5	7.0	7.5	5.5	8.0	7.0	9.0	8.0
5	---	---	---	---	8.0	6.5	7.5	5.5	8.0	7.0	9.5	7.5
6	---	---	---	---	7.5	6.5	7.5	5.5	7.5	7.0	8.5	7.5
7	---	---	---	---	7.5	6.5	7.0	5.5	8.5	7.5	9.0	7.5
8	---	---	---	---	7.5	6.0	6.0	5.5	9.0	7.5	10.0	7.5
9	---	---	---	---	7.5	6.0	7.0	6.0	8.5	7.5	10.0	7.5
10	---	---	---	---	7.5	6.0	7.0	6.5	8.5	8.0	9.0	8.0
11	---	---	---	---	7.5	6.0	8.0	7.0	9.0	8.0	9.5	7.5
12	---	---	---	---	7.0	6.0	8.5	8.0	8.5	7.5	9.5	7.5
13	---	---	---	---	7.5	6.0	8.5	7.5	9.0	8.0	10.0	7.5
14	---	---	9.5	9.0	6.5	6.0	8.5	7.5	9.0	8.0	10.0	7.5
15	---	---	9.0	8.5	6.5	6.5	8.5	7.5	9.5	8.0	11.5	7.5
16	---	---	10.0	8.5	7.0	6.5	10.0	8.0	9.5	7.5	9.5	7.5
17	---	---	10.0	8.0	7.0	6.5	8.5	8.0	9.5	7.5	9.5	7.5
18	---	---	9.0	8.5	8.0	7.0	8.5	8.0	9.5	7.5	10.0	7.5
19	---	---	9.5	8.0	8.5	7.5	8.5	7.5	9.5	7.5	8.5	7.5
20	---	---	9.5	8.0	8.5	7.5	8.5	7.0	9.5	7.5	8.5	7.5
21	---	---	8.5	8.0	8.5	7.5	8.5	7.5	9.5	7.0	8.0	7.5
22	---	---	9.5	7.5	8.5	7.0	8.5	7.0	9.5	7.5	10.0	7.5
23	---	---	9.0	7.5	8.5	7.0	8.0	7.0	9.0	7.5	10.5	7.5
24	---	---	9.0	7.5	9.0	7.5	7.5	6.5	8.5	7.5	10.5	7.5
25	---	---	8.5	7.5	9.0	7.0	8.0	6.5	8.5	7.5	10.5	8.5
26	---	---	8.5	8.0	8.5	7.0	8.0	6.5	8.0	7.5	10.5	8.5
27	---	---	9.5	7.5	7.5	7.5	7.5	6.0	9.5	8.0	11.0	8.5
28	---	---	8.0	7.5	8.0	6.5	7.5	6.0	9.5	8.5	11.5	8.5
29	---	---	8.5	7.5	8.0	6.5	7.5	6.5	---	---	11.0	8.5
30	---	---	8.0	7.5	8.0	6.5	8.0	7.0	---	---	9.0	8.5
31	---	---	---	---	8.0	6.0	7.5	6.5	---	---	11.0	8.5
MONTH	---	---	---	---	9.0	6.0	10.0	5.5	9.5	6.0	11.5	7.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	7.5	---	---	22.0	16.5	24.5	18.5	25.5	20.5	21.5	17.5
2	11.5	8.0	17.0	12.0	22.5	17.0	24.5	19.0	25.5	20.5	21.5	17.0
3	11.5	8.5	17.0	12.0	22.5	17.0	25.0	19.0	25.0	20.0	21.5	17.0
4	12.0	8.5	15.0	12.0	23.0	17.0	25.0	19.5	24.5	20.0	21.0	16.5
5	12.0	8.5	17.0	12.5	23.5	17.5	25.5	20.0	24.0	19.5	20.0	16.0
6	12.5	9.0	17.5	12.5	23.5	18.0	24.5	19.0	24.0	19.0	20.5	16.0
7	12.5	9.0	---	---	23.5	18.0	25.0	19.0	23.5	18.5	20.0	16.0
8	12.5	9.0	---	---	24.0	18.0	25.5	19.5	23.5	18.5	20.0	15.0
9	11.5	9.0	---	---	24.0	18.5	25.5	20.0	23.0	18.0	20.0	15.5
10	14.0	9.5	---	---	23.0	18.0	25.5	20.0	23.5	18.5	20.0	15.5
11	14.0	9.5	20.0	14.0	22.5	17.5	25.5	20.0	23.5	18.5	19.5	15.5
12	13.5	10.0	20.5	14.5	23.0	17.0	25.5	20.0	23.0	18.0	19.5	15.5
13	12.0	10.0	20.5	15.5	21.0	17.5	25.5	20.5	23.0	18.0	19.0	15.5
14	14.0	10.0	20.5	15.5	21.5	16.5	25.5	20.0	23.0	18.0	19.0	15.0
15	14.0	10.0	21.0	15.5	22.5	17.0	25.0	20.0	23.0	18.0	19.0	15.0
16	13.0	10.0	21.5	16.0	21.5	17.0	25.0	20.0	23.0	18.0	19.0	14.5
17	13.5	10.0	22.0	16.5	22.0	16.5	24.5	20.0	23.0	18.0	18.5	14.5
18	13.5	9.0	22.0	17.0	22.5	17.0	24.5	20.0	23.0	18.0	18.5	15.0
19	13.5	9.5	21.0	16.0	24.0	18.0	24.5	19.5	23.0	18.0	18.5	15.0
20	14.0	9.5	20.5	15.0	24.0	18.0	24.0	19.0	22.5	17.5	18.0	15.5
21	14.5	10.0	21.0	15.5	24.0	18.5	24.5	19.5	22.0	17.5	18.5	14.5
22	15.5	10.5	21.0	15.0	22.5	18.0	25.0	20.0	22.0	17.0	16.0	14.5
23	16.0	10.5	21.0	15.5	20.5	18.0	24.5	19.5	21.5	17.0	18.0	15.0
24	---	---	18.0	16.0	24.0	18.0	25.0	20.0	21.5	17.5	17.5	15.0
25	---	---	20.0	15.5	24.5	18.5	25.5	20.5	22.0	17.5	17.5	14.0
26	---	---	21.0	14.5	25.0	19.5	25.5	20.5	21.5	17.5	17.5	14.0
27	---	---	21.5	15.5	25.0	20.0	25.0	20.5	21.5	17.5	17.5	13.5
28	---	---	22.5	16.5	25.0	20.0	25.5	20.0	22.0	17.5	17.5	13.5
29	---	---	23.0	17.5	24.5	19.0	26.0	20.5	22.5	18.0	17.0	13.0
30	---	---	21.5	18.0	24.0	19.0	25.0	20.0	22.0	17.5	16.5	12.5
31	---	---	19.5	17.0	---	---	25.5	20.5	21.5	17.5	---	---
MONTH	---	---	23.0	12.0	25.0	16.5	26.0	18.5	25.5	17.0	21.5	12.5

## SACRAMENTO RIVER BASIN

## 11425100 FEATHER RIVER NEAR NICOLAUS, CALIF.

LOCATION.--Lat 38°51'39", long 121°37'22", in SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.27, T.12 N., R.3 E., Sutter County, temperature recorder on left bank, 3.8 miles downstream from gaging station at Nicolaus, 3.9 miles southwest of Nicolaus, 6.6 miles northeast of Knights Landing, and at mile 5.6.

DRAINAGE AREA.--5,920 sq mi (at gaging station).

PERIOD OF RECORD.--Chemical analyses: March 1951 to June 1966. Published as sta 11425000 Feather River at Nicolaus, Calif.

Water temperatures: March 1951 to September 1958, November 1959 to September 1973.

## EXTREMES.--1972-73:

Water temperatures: Maximum, 27.5°C July 26, Aug. 1; minimum, 4.5°C Dec. 16 and probably sometime during period Dec. 8-15.

## Period of record:

Water temperatures: Maximum (1951-58, 1959-73): Maximum, 34.5°C July 21, 1961; minimum (1951-58, 1959-66, 1967-73), freezing point Jan. 3-6, 1961.

REMARKS.--Prior to 1964 water year, thermograph located at gaging station at Nicolaus (sta 11425000), 3.8 miles upstream and 2.9 miles downstream from Bear River. Clock stopped Oct. 1-5; range in temperature, 15.0°C to 17.0°C. No record Dec. 8-15. Recorder malfunction June 20 to July 18; range in temperature, 18.0°C to 27.0°C.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	11.5	10.5	8.5	8.5	7.5	6.5	8.5	8.0	11.0	10.5
2	---	---	12.0	10.5	8.5	8.0	7.5	6.5	8.5	8.5	10.5	10.0
3	---	---	12.0	11.0	8.5	8.0	7.5	6.5	8.5	8.5	10.0	9.5
4	---	---	13.0	11.5	9.0	8.0	7.0	6.0	9.0	8.0	9.5	9.0
5	---	---	13.5	11.5	8.0	7.0	7.0	6.0	9.0	8.5	10.0	9.5
6	17.0	15.5	12.5	11.0	7.0	6.0	6.5	5.5	9.0	9.0	10.0	9.5
7	17.0	15.5	12.5	11.5	7.0	6.0	6.0	5.5	9.5	9.0	9.5	9.0
8	17.0	15.5	12.0	10.5	---	---	5.5	5.5	10.0	9.5	10.0	9.5
9	16.5	15.0	11.5	10.5	---	---	6.5	5.5	10.0	9.5	10.5	10.0
10	15.5	14.5	11.0	10.5	---	---	7.0	6.5	9.5	9.5	10.5	10.0
11	15.0	14.0	11.5	10.5	---	---	7.5	7.0	10.0	9.5	10.0	9.5
12	14.0	13.5	11.0	10.0	---	---	9.0	7.5	10.0	9.5	10.0	9.5
13	15.0	13.5	10.5	10.5	---	---	9.0	8.5	9.5	9.0	10.0	9.5
14	15.0	14.0	10.5	10.0	---	---	9.0	9.0	9.5	9.0	10.0	9.5
15	15.0	14.0	11.0	10.0	---	---	9.0	8.5	10.0	9.0	10.5	10.0
16	14.5	13.5	11.0	10.5	5.0	4.5	9.5	8.5	9.5	9.5	12.0	10.5
17	15.0	13.5	11.5	11.0	6.0	5.0	9.5	9.0	9.5	9.0	11.0	10.0
18	15.5	14.0	11.0	10.5	7.0	6.0	9.0	8.5	9.5	9.0	11.0	10.0
19	15.0	14.0	11.5	10.5	8.5	7.0	8.5	8.0	9.5	9.0	10.5	9.5
20	15.0	13.5	11.0	10.0	9.5	8.5	8.0	7.5	10.0	9.5	10.0	9.5
21	15.0	13.5	10.5	9.5	10.0	9.5	8.0	8.0	10.0	9.5	9.5	9.0
22	14.5	13.0	10.5	9.5	10.5	10.0	8.5	8.0	10.5	10.0	10.0	8.5
23	15.0	13.5	9.5	9.0	10.0	9.5	8.0	7.5	10.5	10.0	10.5	9.5
24	15.0	13.5	9.5	8.5	10.5	9.5	8.0	7.5	10.5	10.0	11.0	10.0
25	14.5	13.0	9.5	9.0	10.0	9.5	8.0	7.5	10.5	9.5	11.5	10.5
26	14.5	13.0	9.5	9.0	9.5	8.5	8.0	7.5	10.5	10.5	12.0	11.0
27	14.0	12.5	10.0	9.0	9.0	8.5	7.5	7.5	10.5	10.5	12.0	11.0
28	13.5	12.0	9.5	9.0	8.5	8.0	7.5	7.0	11.5	10.5	11.5	10.5
29	12.5	11.0	10.0	8.5	8.0	7.5	7.5	7.5	---	---	11.0	10.5
30	11.5	10.0	9.0	8.5	8.0	7.0	8.0	7.5	---	---	10.5	10.0
31	11.5	10.0	---	---	7.5	6.5	8.5	8.0	---	---	11.5	10.0
MONTH	17.0	10.0	13.5	8.5	---	---	9.5	5.5	11.5	8.0	12.0	8.5

## SACRAMENTO RIVER BASIN

397

11425100 FEATHER RIVER NEAR NICOLAUS, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.5	19.5	16.0	22.0	19.0	---	---	27.5	24.0	23.0	20.5
2	11.5	10.0	19.0	16.0	23.5	19.5	---	---	26.5	23.5	23.0	20.0
3	12.5	10.5	19.0	16.0	24.0	20.5	---	---	26.0	23.0	24.0	20.0
4	13.0	11.0	17.5	15.5	25.0	21.0	---	---	25.0	22.0	23.5	21.0
5	14.0	12.0	18.0	15.0	26.5	22.0	---	---	24.5	21.5	22.5	19.5
6	14.5	12.5	19.0	15.5	27.0	23.0	---	---	24.0	21.5	22.5	19.5
7	14.5	13.0	20.0	16.0	27.0	23.5	---	---	24.0	21.0	22.5	20.0
8	14.0	12.0	20.5	16.5	27.5	24.0	---	---	24.0	21.5	21.5	19.0
9	14.0	12.5	21.0	18.0	27.5	24.0	---	---	23.5	20.5	22.0	19.0
10	16.0	12.5	21.5	18.0	25.5	23.0	---	---	24.5	21.0	22.0	19.5
11	17.0	14.0	22.0	18.5	24.0	21.0	---	---	24.5	21.5	22.0	19.0
12	16.5	14.0	22.5	19.0	24.0	20.0	---	---	24.0	21.0	22.0	19.5
13	15.5	13.5	23.0	20.0	22.0	20.5	---	---	24.5	21.0	21.5	19.5
14	15.5	12.5	23.5	20.5	22.5	19.0	---	---	25.5	22.0	21.5	18.5
15	16.0	13.0	23.5	20.0	23.0	19.0	---	---	25.5	22.0	21.0	18.5
16	15.5	13.5	24.5	20.5	23.0	19.0	---	---	25.0	22.0	20.5	18.0
17	15.5	14.0	25.5	21.5	23.0	19.0	---	---	25.0	21.5	20.5	18.0
18	15.0	12.5	26.0	22.0	23.5	19.5	---	---	24.5	20.5	20.5	17.5
19	15.0	13.0	23.0	20.5	26.0	21.0	25.0	21.5	24.0	21.0	20.5	18.5
20	15.5	12.5	21.5	18.5	---	---	24.5	21.0	24.0	20.5	21.0	19.0
21	15.5	12.5	22.0	18.5	---	---	24.5	21.0	23.5	20.5	20.5	18.5
22	16.5	13.5	22.0	18.5	---	---	25.5	22.0	23.5	20.0	18.5	17.5
23	17.5	14.5	21.5	19.0	---	---	26.0	22.0	23.0	19.5	19.0	17.0
24	18.0	15.5	19.5	18.5	---	---	26.5	22.5	23.5	20.0	19.5	17.5
25	19.0	16.0	19.0	17.0	---	---	27.0	23.0	24.0	20.5	19.0	17.0
26	19.5	16.5	19.5	16.0	---	---	27.5	24.0	24.0	21.0	19.5	17.0
27	19.5	17.0	20.5	17.0	---	---	26.5	23.5	23.5	20.0	20.0	17.0
28	18.5	16.0	22.5	18.5	---	---	26.0	23.0	24.5	20.5	20.0	17.5
29	18.5	15.5	24.0	20.5	---	---	26.5	22.5	25.0	21.5	20.0	17.5
30	19.0	15.5	24.0	22.0	---	---	26.5	23.0	24.5	21.5	19.5	17.0
31	---	---	22.5	20.5	---	---	27.5	23.5	23.5	20.5	---	---
MONTH	19.5	10.0	26.0	15.0	---	---	---	---	27.5	19.5	24.0	17.0

## SACRAMENTO RIVER BASIN

11427000 NORTH FORK AMERICAN RIVER AT NORTH FORK DAM, CALIF.

LOCATION.--Lat 38°56'10", long 121°01'22", in SW $\frac{1}{4}$ NW $\frac{1}{4}$  sec.31, T.13 N., R.9 E., Placer County, temperature recorder at gaging station on left bank, 50 ft upstream from spillway of North Fork Dam, 2 miles upstream from Middle Fork, and 4 miles northeast of Auburn.

DRAINAGE AREA.--342 sq mi.

PERIOD OF RECORD.--Water temperatures: November 1959 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 26.5°C Aug. 11-13; minimum, 6.0°C Dec. 18, 19.

Period of record:

Water temperatures: Maximum, 27.5°C Aug. 14-16, 1971; minimum, 4.5°C Jan. 21, 1967.

REMARKS.--No record Mar. 9-27.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	20.0	16.5	15.5	8.5	8.5	7.5	7.5	9.0	9.0	10.5	10.5
2	20.0	20.0	15.5	15.5	8.5	8.5	8.0	7.5	9.0	9.0	10.5	10.5
3	20.0	20.0	15.5	15.5	8.5	8.5	8.0	8.0	9.0	9.0	10.5	10.5
4	20.0	20.0	15.5	15.0	8.5	8.5	8.0	7.5	9.0	9.0	10.5	10.5
5	20.0	20.0	15.0	14.5	8.5	8.5	7.5	7.5	10.0	9.0	10.5	10.5
6	20.0	20.0	14.5	14.0	8.5	8.0	8.0	7.5	10.0	10.0	10.5	10.5
7	20.0	20.0	14.0	14.0	8.0	8.0	8.0	8.0	10.5	10.0	10.5	10.5
8	20.0	20.0	14.0	13.0	8.0	8.0	8.0	7.5	10.5	9.0	10.5	10.5
9	20.0	20.0	13.0	13.0	8.0	7.5	7.5	7.5	10.5	10.5	---	---
10	20.0	20.0	13.0	12.5	7.5	7.5	7.5	7.5	10.5	10.5	---	---
11	20.0	20.0	12.5	12.0	7.5	7.5	8.0	7.5	10.5	10.5	---	---
12	20.0	19.5	12.5	11.5	7.5	7.5	9.0	8.0	10.5	10.5	---	---
13	19.5	19.5	11.5	11.0	7.5	7.0	9.5	8.0	10.5	10.5	---	---
14	19.5	19.5	11.0	11.0	7.0	7.0	10.0	9.5	10.5	10.5	---	---
15	19.5	19.0	11.0	11.0	7.0	6.5	10.0	10.0	10.5	10.5	---	---
16	19.0	18.5	11.0	10.5	6.5	6.5	11.0	10.0	10.5	10.5	---	---
17	18.5	18.0	10.5	10.5	6.5	6.5	11.0	11.0	10.5	10.5	---	---
18	18.0	18.0	10.5	10.0	6.5	6.0	11.0	10.5	10.5	10.5	---	---
19	18.0	18.0	10.0	9.5	6.5	6.0	10.5	10.5	10.5	10.5	---	---
20	18.0	18.0	9.5	9.5	7.0	6.5	10.5	10.5	10.5	10.5	---	---
21	18.0	18.0	9.5	9.5	7.5	7.0	10.5	9.5	10.5	10.5	---	---
22	18.0	18.0	9.5	9.0	7.5	7.5	9.5	9.5	10.5	10.5	---	---
23	18.0	17.5	9.0	9.0	8.0	7.5	9.5	9.0	10.5	10.5	---	---
24	17.5	17.5	9.0	9.0	8.0	8.0	9.0	9.0	10.5	10.5	---	---
25	17.5	17.5	9.0	9.0	8.0	8.0	9.0	9.0	10.5	10.5	---	---
26	17.5	17.5	9.0	9.0	8.0	8.0	9.0	9.0	10.5	10.5	---	---
27	17.5	17.5	9.0	9.0	8.0	8.0	9.0	9.0	10.5	10.5	---	---
28	17.5	17.0	9.0	9.0	8.0	7.5	9.0	9.0	10.5	10.5	12.0	12.0
29	17.0	16.5	9.0	9.0	8.0	7.5	9.0	9.0	---	---	12.0	12.0
30	16.5	16.5	9.0	8.5	8.0	8.0	9.0	9.0	---	---	12.0	12.0
31	16.5	16.5	---	---	8.0	7.5	9.0	9.0	---	---	12.0	11.0
MONTH	20.0	16.5	16.5	8.5	8.5	6.0	11.0	7.5	10.5	9.0	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	11.0	12.5	12.0	17.5	16.0	25.0	24.5	26.0	26.0	24.0	24.0
2	11.0	10.5	12.5	12.0	16.5	16.0	24.5	24.5	26.0	26.0	24.0	24.0
3	11.0	10.5	12.5	12.0	16.5	16.0	24.5	24.5	26.0	26.0	24.0	24.0
4	11.0	11.0	12.5	12.0	17.5	16.5	25.0	24.5	26.0	26.0	24.0	23.5
5	11.5	11.0	12.5	11.5	18.0	17.5	25.0	25.0	26.0	26.0	23.5	23.5
6	11.5	11.5	12.0	11.5	18.5	17.5	25.0	25.0	26.0	26.0	23.5	23.5
7	12.0	11.5	12.5	11.5	19.0	18.5	25.5	25.0	26.0	26.0	23.5	23.5
8	11.5	11.5	12.5	12.5	19.5	19.0	25.0	25.0	26.0	26.0	23.5	23.5
9	11.5	11.5	13.0	12.5	20.5	19.5	25.0	25.0	26.0	26.0	23.5	23.5
10	11.5	11.5	13.0	12.5	21.0	20.0	25.5	25.0	26.0	26.0	23.5	23.5
11	11.5	11.5	13.5	13.0	21.0	20.5	25.5	25.0	26.5	26.0	23.5	23.5
12	11.5	11.5	13.5	13.5	21.0	20.5	25.5	25.5	26.5	26.5	23.5	23.5
13	11.5	11.0	13.5	13.5	21.0	20.5	25.5	25.5	26.5	26.0	23.5	23.5
14	11.0	10.5	13.5	13.5	21.0	20.5	26.0	25.5	26.0	26.0	23.5	23.5
15	10.5	10.5	13.5	13.0	20.5	20.5	26.0	26.0	26.0	26.0	23.5	23.5
16	10.5	10.5	13.5	13.0	20.5	20.0	26.0	25.5	26.0	26.0	23.5	23.5
17	10.5	10.5	13.5	13.5	20.0	20.0	25.5	25.5	26.0	26.0	23.5	23.5
18	10.5	10.5	14.0	13.5	20.0	20.0	25.5	25.5	26.0	26.0	23.0	23.0
19	11.5	10.5	14.5	13.5	20.5	20.0	25.5	25.5	26.0	26.0	23.0	23.0
20	11.5	11.5	14.5	14.0	21.5	20.5	25.5	25.5	26.0	25.5	23.0	23.0
21	11.5	11.5	14.0	13.5	22.5	21.5	25.5	25.0	25.5	25.5	23.0	23.0
22	12.0	11.5	14.0	13.5	23.0	22.5	25.0	25.0	25.5	25.0	23.0	22.5
23	12.5	12.0	14.5	14.0	23.0	23.0	25.0	24.5	25.0	24.5	22.5	22.5
24	12.5	12.5	15.0	14.0	23.0	22.5	24.5	24.5	24.5	24.5	22.5	22.0
25	12.5	12.5	14.5	14.0	23.0	22.5	25.0	24.5	24.5	24.5	22.0	22.0
26	12.5	12.0	14.0	14.0	24.0	23.0	25.0	24.5	24.5	24.0	22.0	21.5
27	12.5	12.5	14.5	14.0	25.0	24.0	25.0	25.0	24.0	24.0	21.5	21.5
28	12.5	12.5	15.0	14.0	25.5	24.5	25.5	25.0	24.0	24.0	21.5	21.5
29	12.5	12.0	16.0	15.0	25.5	25.0	26.0	25.5	24.0	24.0	21.5	21.5
30	12.5	12.0	17.0	16.0	25.5	25.0	26.0	26.0	24.0	24.0	21.5	21.5
31	---	---	17.5	17.0	---	---	26.0	26.0	24.0	24.0	---	---
MONTH	12.5	10.5	17.5	11.5	25.5	16.0	26.0	24.5	26.5	24.0	24.0	21.5



## 399

LOCATION.--Lat 38°56'03", long 120°52'21", in SW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec.33, T.13 N., R.10 E., El Dorado County, Eldorado National Forest, temperature recorder at gaging station on right bank, 0.7 mile downstream from West Canyon, and 2.6 miles northwest of Georgetown.

PERIOD OF RECORD.--Water temperatures: July 1966 to September 1973.

Water temperatures: Minimum, 1.5°C Dec. 14, Jan. 7.

Water temperatures: Maximum (1966-72), 23.5°C July 22, 1966; minimum, 1.0°C Dec. 17, 18, 1967, Jan. 30 to Feb. 2, 1972.

REMARKS.--No record May 11 to June 15, July 14 to Sept. 30.

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	12.5	9.0	7.5	6.0	5.0	4.0	3.0	7.0	5.5	9.5	9.0
2	14.0	12.5	9.5	8.0	5.5	4.5	4.0	3.0	7.5	6.5	9.0	8.0
3	14.0	12.5	10.5	8.5	7.0	5.5	4.5	3.5	8.0	7.0	8.0	7.5
4	14.0	13.0	11.0	9.5	7.0	6.0	3.5	2.5	8.5	8.0	8.5	8.0
5	14.0	12.0	10.5	9.5	6.0	4.5	3.0	2.5	8.5	7.5	8.5	7.5
6	14.0	12.5	10.0	8.5	4.5	2.5	3.0	2.0	9.0	8.5	8.5	8.0
7	14.0	12.0	10.0	9.0	4.0	3.5	2.5	1.5	9.0	8.5	8.5	7.5
8	14.0	12.0	10.0	9.0	3.5	2.5	3.5	2.5	9.0	8.5	9.5	8.5
9	14.0	13.0	9.5	8.0	2.5	2.5	5.5	3.5	9.5	8.5	10.0	8.0
10	13.5	13.0	9.5	9.5	3.0	2.5	6.5	5.5	9.0	8.5	9.5	9.0
11	13.5	13.0	9.5	9.0	2.5	2.0	7.5	6.5	9.0	8.5	9.5	8.0
12	13.0	11.5	9.0	8.0	3.0	2.0	8.5	7.5	9.0	8.5	9.5	7.5
13	13.0	12.0	9.0	8.5	2.5	2.0	8.0	7.5	9.0	8.0	9.0	8.0
14	13.0	11.0	9.5	8.5	2.0	1.5	7.5	7.0	8.5	8.0	9.0	7.0
15	12.5	11.5	9.5	9.0	3.0	2.0	8.0	7.0	8.5	7.0	8.5	6.5
16	12.0	11.5	9.5	9.5	3.0	3.0	8.5	8.0	9.0	7.5	9.0	7.0
17	12.5	12.0	9.5	8.5	5.0	2.0	8.5	8.0	9.0	7.5	9.0	8.0
18	12.0	11.0	9.0	8.0	6.0	5.0	8.0	7.5	9.0	7.5	9.0	7.0
19	12.0	10.5	9.5	9.0	7.0	6.0	7.5	6.5	9.0	7.5	8.5	7.0
20	12.0	11.0	9.0	7.5	7.0	6.5	6.5	6.0	9.0	7.5	8.0	7.5
21	12.5	12.0	8.5	7.5	7.5	6.5	7.0	6.0	9.0	7.5	7.5	7.0
22	12.0	11.0	8.5	7.5	8.5	7.5	6.0	5.5	9.0	8.0	9.0	7.0
23	12.0	10.5	7.5	6.5	7.5	7.0	6.0	5.0	9.0	7.5	9.0	7.0
24	11.0	10.0	7.0	6.0	7.5	6.5	6.0	5.5	9.5	9.0	9.5	7.5
25	11.0	9.5	7.0	6.0	6.5	6.0	6.5	6.0	10.0	9.0	10.0	8.0
26	11.0	9.5	7.0	6.5	6.0	5.5	6.0	5.5	9.5	8.5	10.0	9.0
27	11.0	9.0	7.0	6.0	6.5	6.0	5.5	5.0	9.5	9.0	10.0	9.0
28	10.0	8.5	6.5	6.0	6.5	4.5	5.5	4.5	9.5	9.0	9.0	7.0
29	10.0	7.5	6.5	5.5	4.5	4.0	6.0	5.0	---	---	8.5	6.5
30	8.5	7.0	6.0	5.0	4.0	3.5	6.5	5.5	---	---	8.5	7.5
31	8.5	6.5	---	---	3.5	3.0	7.0	6.5	---	---	9.5	8.0
MONTH	14.0	6.5	11.0	5.0	8.5	1.5	8.5	1.5	10.0	5.5	10.0	6.5
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	7.5	13.0	10.0	---	---	19.5	14.0	---	---	---	---
2	9.5	6.5	13.5	11.0	---	---	19.5	14.0	---	---	---	---
3	9.5	7.0	13.5	11.5	---	---	19.5	14.0	---	---	---	---
4	10.0	7.0	13.0	11.0	---	---	2					

## SACRAMENTO RIVER BASIN

11439500 SOUTH FORK AMERICAN RIVER NEAR KYBURZ, CALIF.

LOCATION.--Lat 38°45'49", long 120°19'39", in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.29, T.11 N., R.15 E., El Dorado County, Eldorado National Forest, temperature recorder at gaging station on right bank beside U.S. Highway 50, 0.8 mile downstream from Silver Fork of South Fork, and 1.9 miles southwest of Kyburz.

DRAINAGE AREA.--193 sq mi.

PERIOD OF RECORD.--Water temperatures: August 1966 to September 1973.

## EXTREMES, 1972-73:

Water temperatures: Maximum, 23.0°C on several days during July; minimum, freezing point on many days during December to March.

## Period of record:

Water temperatures: Maximum (1967-69, 1970-73), 25.0°C July 16-18, 1972; minimum, freezing point on many days in most years.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	12.0	7.5	5.0	2.0	1.5	0.5	0.0	2.0	0.5	4.5	2.5
2	14.0	11.0	7.5	6.0	2.0	1.0	0.5	0.0	2.5	1.0	4.5	2.5
3	14.5	11.0	7.5	5.5	3.5	1.5	0.5	0.0	2.0	1.0	2.5	1.5
4	14.0	11.5	7.5	6.0	3.5	1.5	0.0	0.0	2.5	1.5	3.5	1.5
5	13.5	11.0	6.0	5.0	1.5	0.5	0.0	0.0	2.5	1.0	3.0	1.0
6	13.0	11.0	5.0	4.0	1.0	1.0	0.0	0.0	2.5	2.0	2.5	2.0
7	12.5	10.5	5.5	5.0	1.0	0.5	0.0	0.0	3.5	2.0	3.0	1.5
8	12.5	10.0	5.0	4.5	0.5	0.5	0.0	0.0	3.0	1.5	4.0	2.0
9	11.5	11.0	6.5	3.5	0.5	0.5	0.0	0.0	3.0	1.5	4.5	1.5
10	11.0	10.0	6.0	4.0	0.5	0.0	0.5	0.0	2.5	0.5	4.0	2.5
11	12.0	10.0	4.5	3.5	0.0	0.0	0.5	0.0	1.0	0.0	4.0	1.5
12	10.0	8.5	4.0	3.0	0.0	0.0	1.0	0.0	2.0	0.0	4.0	1.0
13	10.5	8.0	4.0	3.0	0.0	0.0	1.5	1.0	2.5	1.0	3.0	2.0
14	10.0	8.5	4.0	3.5	0.0	0.0	2.0	1.0	2.5	1.5	4.0	1.0
15	9.5	8.0	4.0	2.5	0.0	0.0	2.5	1.5	3.0	1.0	5.0	1.0
16	9.0	8.0	4.5	3.0	0.5	0.0	2.5	2.0	3.0	1.0	5.0	2.0
17	8.5	7.5	4.5	3.5	0.5	0.0	2.5	1.5	3.5	1.0	4.0	2.5
18	8.5	7.0	4.5	3.5	2.5	0.5	2.0	0.0	3.0	1.0	4.5	1.0
19	8.0	6.5	4.5	4.0	3.0	2.5	1.0	0.0	3.0	0.5	3.5	2.0
20	10.0	7.5	4.0	2.5	3.0	2.5	1.0	0.0	3.0	0.5	3.0	1.5
21	9.5	7.5	3.5	2.0	4.0	2.5	1.0	0.0	3.5	1.5	2.0	1.0
22	9.5	7.0	3.0	2.5	4.0	2.5	0.5	0.0	3.5	1.5	3.5	0.0
23	10.0	7.5	2.0	1.5	2.5	2.0	0.5	0.0	3.5	1.5	5.5	1.0
24	9.0	7.5	2.5	1.0	2.5	2.0	1.5	0.0	3.5	2.5	6.0	2.0
25	8.5	6.5	3.0	1.5	2.5	2.0	1.5	0.5	4.5	2.5	5.5	3.0
26	8.0	6.5	3.5	2.5	2.0	1.5	1.0	0.0	3.0	1.5	6.0	4.0
27	8.0	6.0	3.5	2.5	2.5	1.5	0.5	0.0	3.5	1.5	5.5	3.5
28	7.5	6.0	3.0	2.5	1.5	0.0	1.5	0.0	3.5	1.5	4.5	2.5
29	7.0	5.0	3.0	2.0	0.5	0.0	1.0	0.5	---	---	4.0	1.5
30	4.5	3.5	2.5	1.5	0.5	0.0	1.0	0.0	---	---	3.5	2.5
31	5.5	3.0	---	---	0.5	0.0	2.5	1.0	---	---	5.5	2.5
MONTH	14.5	3.0	7.5	1.0	4.0	0.0	2.5	0.0	4.5	0.0	6.0	0.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	2.5	6.5	6.0	10.0	7.0	16.0	11.5	22.5	17.0	17.5	13.0
2	5.5	1.5	6.5	6.5	11.0	6.5	17.5	12.0	22.5	17.0	17.5	12.5
3	6.5	2.5	6.5	6.5	10.5	7.0	18.0	13.0	22.0	16.5	17.5	13.0
4	7.5	3.0	6.5	6.0	11.5	7.0	19.0	13.5	19.5	16.0	18.0	13.0
5	7.5	3.5	6.0	5.0	12.5	8.5	20.0	14.5	21.0	15.5	18.0	13.0
6	7.0	3.5	6.0	5.0	12.5	8.0	20.0	14.5	21.0	16.0	17.5	13.0
7	6.0	3.0	7.0	6.0	13.0	8.5	20.5	14.5	21.0	15.0	17.0	12.5
8	6.5	2.5	7.0	6.0	14.0	9.5	21.5	14.5	21.0	15.0	16.5	12.5
9	6.0	3.5	7.0	6.5	13.0	9.5	23.0	15.5	20.5	15.0	17.0	12.5
10	6.5	3.5	7.0	6.5	13.0	9.5	23.0	16.5	20.0	14.5	17.0	13.0
11	6.5	3.5	7.0	6.5	13.5	10.5	22.5	16.5	20.5	14.5	17.0	13.0
12	6.5	3.5	7.0	6.0	13.0	10.0	22.0	16.0	21.0	15.5	17.5	13.5
13	4.5	2.5	8.0	5.0	12.0	10.0	20.5	16.0	20.5	15.0	17.0	13.5
14	5.5	2.5	8.0	5.0	10.5	8.5	22.0	15.5	21.5	15.5	16.5	13.0
15	4.5	3.5	8.5	5.0	11.0	7.5	22.5	16.0	21.0	16.0	15.5	12.0
16	5.5	3.0	9.0	5.0	10.5	8.5	23.0	17.0	20.5	15.5	15.5	12.0
17	6.0	4.5	9.0	5.0	12.0	8.0	23.0	17.0	19.5	14.5	15.0	12.0
18	5.5	3.0	8.5	5.0	12.5	8.0	23.0	17.0	16.0	14.0	14.5	11.5
19	6.0	3.5	9.0	5.0	14.0	10.0	21.0	16.5	17.0	13.5	15.0	12.0
20	6.0	3.0	9.0	4.5	15.0	11.0	21.5	16.0	17.5	14.0	14.5	13.0
21	7.0	3.5	8.5	5.0	16.0	12.0	21.0	14.5	17.5	14.0	14.0	10.5
22	7.5	4.0	9.5	5.5	14.5	12.5	21.0	14.5	17.0	13.5	13.5	10.5
23	8.0	4.5	10.0	5.5	12.5	7.5	21.0	14.5	16.0	12.5	13.5	10.5
24	7.5	3.5	7.0	6.0	15.0	11.5	21.0	14.0	15.0	11.0	13.0	10.5
25	8.0	3.5	7.5	6.0	16.0	11.5	22.5	15.0	15.5	12.5	12.5	9.0
26	8.0	3.5	9.0	4.5	18.0	14.0	23.0	16.0	14.0	11.5	13.0	10.0
27	7.0	3.5	10.5	5.5	16.5	15.5	22.5	16.5	15.0	10.5	13.5	10.0
28	6.5	6.0	11.5	6.5	18.0	14.0	23.0	17.0	18.0	13.5	13.5	10.0
29	6.5	6.0	11.5	7.0	17.5	14.0	23.0	17.5	18.5	13.5	13.5	10.0
30	6.5	6.0	9.5	7.5	16.0	12.5	23.0	17.0	18.5	14.0	13.0	10.0
31	---	---	8.0	7.5	---	---	23.0	16.5	17.5	13.5	---	---
MONTH	8.0	1.5	11.5	4.5	18.0	6.5	23.0	11.5	22.5	10.5	18.0	9.0

## SACRAMENTO RIVER BASIN

401

11445500 SOUTH FORK AMERICAN RIVER NEAR LOTUS, CALIF.

LOCATION.--Lat 38°49'07", long 120°56'45", in NW¼SW¼ sec.11, T.11 N., R.9 E., El Dorado County, temperature recorder at gaging station on left bank, 0.4 mile downstream from Greenwood Creek, 2.4 miles northwest of Lotus, and 3.3 miles northwest of Coloma.

DRAINAGE AREA.--673 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1958 to September 1963, water years 1964-66 (partial-record station).

Water temperatures: December 1959 to September 1968, February 1970 to September 1973.

Sediment records: Water years 1957-62 (partial-record station).

EXTREMES, 1972-73:

Water temperatures: Maximum, 19.0°C on several days during July and August; minimum, 2.0°C Jan. 7.

Period of record:

Water temperatures: Maximum, 29.5°C July 20, 1960; minimum (1959-68, 1970-73), 1.0°C on several days in 1960 and 1962.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	12.5	11.5	10.5	7.0	7.0	4.0	3.0	5.0	4.0	7.0	6.5
2	16.0	13.0	12.0	10.0	7.0	6.5	4.0	3.0	5.5	4.0	7.5	6.0
3	16.5	13.0	11.5	10.0	7.5	7.0	4.5	4.0	5.0	4.5	6.5	6.0
4	15.5	13.5	12.0	10.5	7.5	6.5	4.5	3.5	5.5	4.5	7.0	6.5
5	16.0	13.0	12.0	10.5	7.0	6.5	4.0	3.0	6.5	4.5	8.0	6.5
6	15.5	14.0	11.5	10.0	6.5	6.5	3.5	3.0	6.0	5.0	6.5	6.0
7	15.0	14.0	10.5	10.5	6.5	6.5	3.5	2.0	6.0	5.0	7.0	5.5
8	15.5	14.0	11.0	10.0	6.5	6.0	3.5	3.0	6.5	5.5	7.5	6.0
9	15.0	14.0	10.5	9.0	6.0	5.5	4.5	3.5	6.5	6.0	7.5	6.0
10	14.5	13.5	10.0	9.5	5.5	4.5	4.5	4.5	7.0	6.0	6.5	6.0
11	15.0	14.0	10.0	9.5	5.5	4.0	7.0	4.5	7.0	7.0	7.5	6.0
12	14.5	13.5	9.5	8.5	5.5	4.5	7.5	6.5	7.0	6.5	8.0	6.5
13	15.0	13.5	9.5	9.0	6.0	5.0	7.0	5.5	7.0	6.0	7.0	6.0
14	14.5	13.5	10.0	9.0	5.5	4.5	5.5	5.0	6.5	6.0	8.0	5.5
15	14.5	13.5	10.0	9.0	5.0	5.0	6.0	5.0	7.0	5.5	8.0	6.0
16	14.0	13.5	9.5	9.0	5.5	5.0	7.5	6.0	6.5	5.5	7.5	6.0
17	15.0	13.0	10.0	8.5	6.0	5.5	7.0	6.0	6.5	5.0	7.0	6.0
18	15.0	13.0	9.0	8.0	6.0	5.5	6.5	5.5	6.5	5.0	8.0	5.5
19	14.5	13.5	8.5	8.0	6.5	6.0	6.5	5.5	7.0	5.0	7.5	6.5
20	15.5	13.5	8.5	7.5	6.0	5.0	5.5	5.0	6.5	5.0	6.5	6.0
21	14.5	13.0	8.0	7.5	5.5	5.0	5.0	5.0	6.5	5.0	6.5	6.0
22	14.5	12.5	8.5	7.5	6.5	5.5	5.0	4.0	6.5	5.0	8.0	6.0
23	14.5	12.5	7.5	6.5	6.5	5.5	5.0	4.0	6.0	5.0	8.0	6.0
24	14.5	12.5	8.0	6.5	6.5	6.0	4.0	3.5	6.0	5.0	8.0	6.0
25	13.5	11.5	8.0	7.0	6.0	5.5	5.0	4.0	7.5	5.5	9.0	6.5
26	13.5	12.5	7.5	7.5	6.0	5.5	4.5	4.0	7.0	6.0	9.0	6.5
27	13.5	11.5	8.0	7.0	5.5	5.5	4.0	3.5	6.5	5.5	7.5	6.5
28	13.0	11.0	7.5	7.0	5.5	5.0	4.0	3.5	7.5	6.0	8.0	6.5
29	12.5	11.0	8.0	7.0	5.0	4.0	4.0	3.5	---	---	7.5	6.5
30	11.0	10.0	7.5	6.5	5.0	4.0	4.5	4.0	---	---	7.0	6.5
31	11.0	10.0	---	---	4.5	3.5	4.5	4.0	---	---	8.0	7.0
MONTH	16.5	10.0	12.0	6.5	7.5	3.5	7.5	2.0	7.5	4.0	9.0	5.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	7.0	10.5	8.0	12.5	10.0	16.5	12.5	19.0	15.0	15.0	12.5
2	9.5	7.0	11.0	8.0	12.0	9.5	18.0	14.0	19.0	14.5	16.0	12.5
3	8.5	6.0	10.5	8.5	13.5	10.0	18.5	13.0	18.5	14.5	17.0	14.5
4	9.0	6.0	9.0	8.0	12.5	10.5	19.0	16.5	17.0	14.5	17.0	15.0
5	9.0	6.5	10.5	8.0	13.0	10.5	17.5	15.5	18.5	14.5	17.0	14.0
6	10.0	6.5	11.5	8.0	14.0	11.0	16.5	13.0	19.0	16.0	16.0	13.0
7	9.0	7.0	12.0	9.0	15.0	11.0	16.5	13.0	18.0	15.5	16.5	13.0
8	9.5	7.0	10.5	7.5	15.0	11.5	16.5	12.5	17.0	14.5	16.5	12.5
9	10.0	7.5	11.0	8.0	15.5	11.5	18.5	14.0	17.5	14.5	17.0	13.0
10	10.0	7.5	12.0	8.5	14.5	12.0	19.0	14.0	17.5	14.0	15.5	14.0
11	10.0	7.5	12.0	9.0	15.0	12.5	18.0	14.5	18.0	14.0	16.0	13.5
12	9.5	8.0	12.5	9.5	14.5	11.5	16.5	14.0	19.0	14.0	15.5	13.5
13	8.5	7.5	12.0	9.5	14.0	12.0	16.5	14.0	17.5	16.0	16.5	13.5
14	9.0	7.5	11.5	9.5	14.5	12.0	16.0	13.0	18.5	15.0	16.0	13.0
15	9.5	7.5	11.5	9.5	15.0	12.0	16.0	13.5	18.0	14.5	16.0	12.5
16	10.0	7.0	11.5	9.5	14.5	11.5	18.5	14.0	17.0	14.0	16.0	12.5
17	8.0	7.0	11.5	9.5	14.5	11.5	16.5	14.0	16.5	14.0	15.5	13.5
18	9.0	6.5	11.5	9.5	15.0	11.0	17.0	14.0	16.5	13.5	16.0	13.0
19	9.5	7.0	11.5	10.0	15.5	11.5	16.5	14.5	17.5	13.5	15.5	12.5
20	9.5	7.0	11.0	9.5	15.5	12.5	16.5	14.0	17.0	13.5	15.5	13.5
21	9.5	7.0	11.0	10.0	15.5	13.0	16.5	13.5	17.0	14.5	15.0	13.0
22	10.0	7.0	13.0	10.0	14.5	12.5	16.5	14.0	17.0	13.5	13.5	12.5
23	11.0	7.5	12.0	10.0	13.0	12.0	18.5	13.5	16.5	13.5	15.5	13.0
24	10.0	7.5	11.0	10.0	15.0	12.0	19.0	14.0	16.5	13.0	15.0	13.0
25	10.5	7.5	11.0	9.5	18.0	12.5	18.0	13.0	17.0	13.5	14.5	12.5
26	11.0	8.0	11.0	8.5	16.0	12.5	17.5	13.5	17.0	13.5	15.0	12.0
27	11.0	8.5	11.5	9.0	16.0	12.5	19.0	14.5	17.0	15.0	15.5	12.0
28	11.0	8.0	12.5	9.0	16.5	12.5	18.0	14.0	17.0	14.0	15.0	12.0
29	11.0	8.5	12.5	10.0	16.5	13.0	17.5	14.0	16.0	13.5	15.0	12.0
30	11.0	8.5	12.5	11.0	16.0	12.5	18.5	15.0	15.5	13.0	15.0	12.0
31	---	---	11.5	10.5	---	---	19.0	15.0	15.0	13.0	---	---
MONTH	11.0	6.0	13.0	7.5	18.0	9.5	19.0	12.5	19.0	13.0	17.0	12.0

## SACRAMENTO RIVER BASIN

## 11446500 AMERICAN RIVER AT FAIR OAKS, CALIF.

LOCATION.--Lat 38°38'08", long 121°13'36", in SE¼NE¼ sec.17, T.9 N., R.7 E., Sacramento County, temperature recorder at gaging station on right bank, 2,100 ft downstream from Nimbus Dam, 2.4 miles east of Fair Oaks, 8.1 miles downstream from South Fork, and at mile 22.2.

DRAINAGE AREA.--1,888 sq mi.

PERIOD OF RECORD.--Chemical analyses: January to December 1906, March 1951 to September 1958, November 1959 to September 1962.

Water temperatures: March 1951 to September 1958, November 1959 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 19.0°C on several days during August; minimum, 7.0°C Feb. 1, 5.

Period of record:

Water temperatures (1951-58, 1959-73): Maximum (1951-58, 1959-64, 1965-69, 1970-73), 27.0°C July 27, Aug. 3, 1954; minimum, freezing point on several days in 1957 and 1958.

REMARKS.--Clock stopped Oct. 28 to Nov. 28.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	14.0	---	---	11.5	11.5	8.5	8.0	7.5	7.0	8.5	8.5
2	14.5	14.0	---	---	11.5	11.5	8.5	8.0	7.5	7.5	8.5	8.0
3	14.5	13.5	---	---	11.5	11.0	8.5	8.0	7.5	7.5	8.5	8.5
4	14.0	13.5	---	---	11.0	11.0	8.0	8.0	7.5	7.5	8.5	8.0
5	14.5	14.0	---	---	11.0	10.5	8.0	8.0	7.5	7.0	8.5	8.0
6	14.5	14.0	---	---	10.5	10.5	8.0	8.0	7.5	7.5	8.5	8.5
7	14.5	14.0	---	---	10.5	10.0	8.0	8.0	7.5	7.5	8.5	8.0
8	14.5	14.0	---	---	10.5	10.0	8.0	8.0	8.0	7.5	8.5	8.5
9	14.5	14.0	---	---	10.0	10.0	8.0	8.0	7.5	7.5	8.5	8.5
10	14.5	14.0	---	---	10.0	9.5	8.0	8.0	7.5	7.5	9.0	8.5
11	14.5	14.0	---	---	9.5	9.5	8.5	8.0	8.0	7.5	8.5	8.0
12	14.5	14.5	---	---	9.5	9.0	8.5	8.0	8.0	7.5	9.0	8.5
13	14.5	14.5	---	---	9.0	9.0	8.0	8.0	8.0	7.5	9.0	8.5
14	15.0	14.5	---	---	9.0	8.5	8.0	8.0	8.0	8.0	9.0	8.5
15	15.0	15.0	---	---	8.5	8.5	8.0	8.0	8.0	7.5	9.0	8.5
16	15.0	15.0	---	---	8.5	8.5	8.5	8.0	8.0	8.0	9.0	9.0
17	15.5	15.0	---	---	8.5	8.5	8.0	8.0	8.0	7.5	9.0	9.0
18	15.5	15.0	---	---	8.5	8.5	8.0	8.0	8.0	8.0	9.0	9.0
19	15.5	15.5	---	---	9.0	8.5	8.0	8.0	8.0	7.5	9.0	9.0
20	15.5	15.5	---	---	9.0	8.5	8.0	8.0	8.5	8.0	9.0	9.0
21	15.5	15.5	---	---	8.5	8.0	8.0	8.0	8.5	8.0	9.0	8.5
22	15.5	15.5	---	---	8.0	8.0	8.0	8.0	8.5	8.0	9.0	8.5
23	16.0	15.5	---	---	8.0	7.5	8.0	7.5	8.5	8.0	9.5	9.0
24	16.0	15.5	---	---	8.0	7.5	8.0	7.5	8.5	8.0	9.5	9.5
25	16.0	15.5	---	---	7.5	7.5	8.0	7.5	8.5	8.0	9.5	9.5
26	16.0	15.5	---	---	7.5	7.5	7.5	7.5	8.5	8.0	9.5	9.5
27	16.0	16.0	---	---	8.0	7.5	7.5	7.5	8.5	8.5	9.5	9.0
28	---	---	---	---	8.0	8.0	7.5	7.5	8.5	8.5	9.5	9.5
29	---	---	12.0	11.5	8.0	8.0	7.5	7.5	---	---	10.0	9.5
30	---	---	12.0	11.5	8.5	8.0	7.5	7.5	---	---	10.0	10.0
31	---	---	---	---	8.0	8.0	7.5	7.5	---	---	10.0	10.0
MONTH	16.0	13.5	---	---	11.5	7.5	8.5	7.5	8.5	7.0	10.0	8.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	10.0	12.5	12.5	13.5	13.0	15.5	15.5	18.0	18.0	18.5	18.5
2	10.0	10.0	13.0	12.5	13.5	13.5	15.5	15.0	18.5	18.0	18.5	18.0
3	10.5	10.0	13.0	13.0	13.5	13.5	15.5	15.5	18.5	18.0	18.5	18.0
4	11.0	10.5	13.0	13.0	13.5	13.5	15.5	15.5	18.5	18.0	18.5	18.0
5	11.0	10.5	13.0	12.5	13.5	13.5	15.5	15.5	18.5	18.0	18.0	18.0
6	11.0	11.0	13.0	12.5	13.5	13.5	15.5	15.5	18.5	18.5	18.0	18.0
7	11.0	11.0	13.0	13.0	14.0	13.5	15.5	15.5	18.5	18.5	18.0	18.0
8	11.0	11.0	13.0	13.0	14.0	13.5	16.0	15.5	18.5	18.5	18.0	17.5
9	11.0	11.0	13.0	13.0	14.0	13.5	16.0	16.0	18.5	18.5	18.0	17.5
10	11.5	11.0	13.5	13.0	14.0	13.5	16.0	16.0	18.5	18.5	17.5	17.5
11	11.5	11.0	13.5	13.0	14.0	13.5	16.0	16.0	18.5	18.5	17.5	17.5
12	11.5	11.5	13.5	13.0	14.0	13.5	16.0	16.0	18.5	18.5	18.0	17.5
13	11.5	11.5	13.5	13.0	14.0	13.5	16.5	16.0	19.0	18.5	17.5	17.5
14	11.5	11.0	13.5	13.0	14.0	13.5	16.5	16.5	19.0	18.5	17.5	17.5
15	11.5	11.0	13.5	13.0	14.0	13.5	16.5	16.5	19.0	18.5	17.5	17.5
16	11.5	11.5	13.5	13.0	14.5	14.0	16.5	16.5	19.0	18.5	17.5	17.5
17	12.0	11.5	13.5	13.5	14.5	14.5	17.0	16.5	19.0	19.0	17.5	17.5
18	11.5	11.5	13.5	13.5	14.5	14.5	17.0	16.5	19.0	18.5	17.5	17.5
19	12.0	11.5	13.5	13.5	14.5	14.5	17.0	17.0	19.0	19.0	17.5	17.5
20	12.0	11.5	13.5	13.5	14.5	14.5	17.0	17.0	19.0	19.0	17.5	17.5
21	12.0	11.5	13.5	13.5	14.5	14.5	17.0	17.0	19.0	19.0	17.5	17.5
22	12.0	12.0	13.5	13.5	14.5	14.5	17.0	17.0	19.0	19.0	17.5	17.5
23	12.0	12.0	13.5	13.5	14.5	14.5	17.0	17.0	19.0	18.5	17.5	17.0
24	12.5	12.0	13.5	13.5	14.5	14.5	18.0	17.5	18.5	18.0	17.0	17.0
25	12.5	12.0	13.5	13.5	15.0	14.5	18.0	17.5	18.5	18.0	17.0	17.0
26	12.5	12.0	13.5	13.5	15.0	15.0	18.0	17.5	18.5	18.0	17.0	17.0
27	12.0	12.0	13.5	13.5	15.0	15.0	18.0	17.5	18.5	18.0	17.0	17.0
28	12.5	12.0	13.5	13.5	15.0	15.0	18.0	18.0	18.5	18.0	17.0	17.0
29	12.5	12.5	13.5	13.5	15.5	15.0	18.0	18.0	18.5	18.5	17.0	17.0
30	12.5	12.0	13.5	13.5	15.5	15.5	18.0	18.0	18.5	18.5	17.0	17.0
31	---	---	13.5	13.5	---	---	18.0	18.0	18.5	18.5	---	---
MONTH	12.5	10.0	13.5	12.5	15.5	13.0	18.0	15.0	19.0	18.0	18.5	17.0

## SACRAMENTO RIVER BASIN

403

11447030 STRONG RANCH SLOUGH AT SACRAMENTO, CALIF.

LOCATION.--Lat 38°36'09", long 121°23'40", in NE¼SW¼ sec.29, T.9 N., R.5 E., Sacramento County, at gaging station on right bank 3.0 miles upstream from mouth and 1.2 miles east of Sacramento city limits.

DRAINAGE AREA.--5.02 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1972 to September 1973 (winter season only).

Specific conductance: December 1972 to September 1973 (winter season only).

Sediment records: August 1972 to September 1973 (winter season only).

## CHEMICAL ANALYSES, AUGUST 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
AUG., 1972												
28...	1420	--	62	100	21	11	13	4.7	94	20	110	9.0
28...	1430	--	--	--	--	--	--	--	--	--	--	--
28...	1440	--	--	--	--	--	--	--	--	--	--	--
SEP.												
07...	1600	--	--	--	--	--	--	--	80	22	102	--
07...	2100	--	--	--	--	--	--	--	122	0	100	--
08...	0700	--	--	--	--	--	--	--	130	0	107	--
08...	1100	--	--	--	--	--	--	--	130	0	107	--
25...	2355	9.6	--	--	--	--	--	--	33	0	27	--
26...	0150	66	13	620	15	5.4	10	6.4	65	0	53	19
26...	0230	155	7.3	640	13	4.4	7.2	5.4	41	0	34	17
OCT.												
11...	0750	40	--	--	--	--	--	--	22	0	18	--
11...	1025	158	--	--	--	--	--	--	23	0	19	--
11...	1210	51	--	--	--	--	--	--	29	0	24	--
NOV.												
03...	1730	2.4	--	--	--	--	--	--	23	0	19	--
03...	1910	25	--	--	--	--	--	--	27	0	22	--
03...	2130	33	--	--	--	--	--	--	21	0	17	--
15...	1805	75	--	--	--	--	--	--	--	--	--	--
16...	0110	142	--	--	--	--	--	--	--	--	--	--
16...	0415	40	--	--	--	--	--	--	--	--	--	--
JAN., 1973												
08...	1200	15	--	--	--	--	--	--	36	0	30	--
08...	1630	90	--	--	--	--	--	--	15	0	12	--
08...	2200	17	--	--	--	--	--	--	30	0	25	--

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DIS-SOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DIS-SOLVED KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHOPHOSPHORUS (P) (MG/L)
AUG., 1972												
28...	13	.3	.05	--	.11	--	--	--	--	--	.51	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
07...	--	--	.30	.17	--	.81	--	.98	--	1.3	.47	.39
07...	--	--	.08	.22	--	.57	--	.79	--	.87	.52	.41
08...	--	--	.07	.16	--	.56	--	.72	--	.79	.51	.43
08...	--	--	.05	.18	--	.55	--	.73	--	.78	.50	.42
25...	--	--	.50	--	.88	1.1	1.5	2.0	2.4	2.5	.72	.23
26...	12	.4	1.8	--	1.7	5.3	--	7.0	--	8.8	1.9	.09
26...	9.5	.5	2.1	--	1.4	2.1	--	3.5	--	5.6	.80	.14
OCT.												
11...	--	--	.42	--	.29	2.2	2.0	2.5	2.3	2.9	.63	.13
11...	--	--	.59	--	.31	.99	.79	1.3	1.1	1.9	.47	.10
11...	--	--	.59	--	.27	1.4	1.7	1.7	2.0	2.3	.48	.21
NOV.												
03...	--	--	1.8	--	1.7	2.1	2.0	3.8	3.7	5.6	.51	.26
03...	--	--	1.7	--	1.1	2.6	1.6	3.7	2.7	5.4	.57	.30
03...	--	--	.85	--	.68	1.3	1.2	2.0	1.9	2.9	.30	.21
15...	--	--	.26	--	.09	1.3	1.1	1.4	1.2	1.7	.40	.19
16...	--	--	.49	--	.13	1.6	1.5	1.7	1.6	2.2	.62	.30
16...	--	--	.75	--	.17	1.3	1.2	1.5	1.4	2.3	.71	.43
JAN., 1973												
08...	--	--	.89	.72	.72	1.5	.68	2.2	1.4	3.1	.55	.17
08...	--	--	.52	.45	.45	1.7	.32	2.1	.77	2.6	.51	.13
08...	--	--	.89	.55	.55	1.5	.55	2.0	1.1	2.9	.66	.37

## SACRAMENTO RIVER BASIN

11447030 STRONG RANCH SLOUGH AT SACRAMENTO, CALIF.--Continued

CHEMICAL ANALYSES, AUGUST 1972 TO SEPTEMBER 1973

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)
AUG., 1972												
28...	201	.31	--	98	0	21	.6	258	--	28.0	16.4	25
28...	--	--	--	--	--	--	--	--	--	28.0	--	--
28...	--	--	--	--	--	--	--	--	--	28.0	--	--
SEP.												
07...	--	--	--	--	--	--	--	240	9.0	26.0	13.4	--
07...	--	--	--	--	--	--	--	240	8.3	23.5	6.7	--
08...	--	--	--	--	--	--	--	256	7.6	19.0	2.6	--
08...	--	--	--	--	--	--	--	254	8.2	21.5	9.0	--
25...	--	--	--	--	--	--	--	100	6.7	18.5	7.1	230
26...	125	.17	22.3	60	6	24	.6	204	--	18.5	4.0	280
26...	97	.13	40.6	51	17	21	.4	155	--	19.0	4.3	210
OCT.												
11...	--	--	--	--	--	--	--	54	6.7	17.0	7.7	110
11...	--	--	--	--	--	--	--	60	6.8	16.0	7.8	57
11...	--	--	--	--	--	--	--	71	7.0	16.0	7.8	47
NOV.												
03...	--	--	--	--	--	--	--	114	5.5	17.0	--	190
03...	--	--	--	--	--	--	--	106	5.9	16.5	--	160
03...	--	--	--	--	--	--	--	69	6.1	16.0	--	70
15...	--	--	--	--	--	--	--	93	7.1	--	--	85
16...	--	--	--	--	--	--	--	83	6.4	--	--	69
16...	--	--	--	--	--	--	--	118	6.4	--	--	51
JAN., 1973												
08...	--	--	--	--	--	--	--	108	6.6	--	--	99
08...	--	--	--	--	--	--	--	43	6.7	--	--	77
08...	--	--	--	--	--	--	--	88	6.9	--	--	58

DATE	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
AUG., 1972											
28...	--	--	.0	10	70	1	0	11	7	.9	.8
28...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
25...	43	--	--	--	--	--	--	--	--	--	--
26...	82	48000	.1	80	280	7	0	3200	34	1.7	.5
26...	77	13000	--	50	310	3	0	750	52	.6	.9
OCT.											
11...	11	--	.0	--	--	--	--	--	--	--	--
11...	8.4	--	.0	--	--	--	--	--	--	--	--
11...	5.7	--	.0	--	--	--	--	--	--	--	--
NOV.											
03...	52	--	--	--	--	--	--	--	--	--	--
03...	39	--	--	--	--	--	--	--	--	--	--
03...	18	--	--	--	--	--	--	--	--	--	--
15...	14	--	--	--	--	--	--	--	--	--	--
16...	7.2	--	--	--	--	--	--	--	--	--	--
16...	6.4	--	--	--	--	--	--	--	--	--	--
JAN., 1973											
08...	20	--	--	8	--	--	--	800	--	.8	--
08...	7.0	--	--	10	--	--	--	500	--	1.4	--
08...	6.5	--	--	20	--	--	--	200	--	1.1	--

## SACRAMENTO RIVER BASIN

405

11447030 STRONG RANCH SLOUGH AT SACRAMENTO, CALIF.--Continued

## PESTICIDE ANALYSES, AUGUST 1972 TO SEPTEMBER 1973

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE- POSITS (UG/KG)
AUG., 1972											
28...	1430	--	<.2	--	250	--	24	--	<.2	--	<.2
28...	1440	.00	--	.0	--	.00	--	.00	--	.00	--
SEP.											
26...	0150	.00	--	2.3	--	.00	--	.00	--	.00	--
26...	0230	.00	--	.5	--	.00	--	.00	--	.00	--

DATE	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	LINDANE (UG/L)
AUG., 1972										
28...	--	--	21	--	<.2	--	<.2	--	<.2	--
28...	.08	.14	--	.00	--	.00	--	.00	--	.00
SEP.										
26...	.20	1.2	--	.00	--	.00	--	.00	--	.00
26...	.15	1.3	--	.00	--	.00	--	.00	--	.00

DATE	LINDANE IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	2,4-D (UG/L)	2,4-D IN BOTTOM DE- POSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE- POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE- POSITS (UG/KG)
AUG., 1972										
28...	<.2	--	--	--	--	<2	--	<0	--	<0
28...	--	.00	.00	.00	.00	--	.00	--	.02	--
SEP.										
26...	--	.00	.00	.00	.00	--	.39	--	.07	--
26...	--	.00	.00	.00	.00	--	.09	--	.04	--

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), DECEMBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	209	193	203
2	---	---	---	---	---	---	---	---	---	250	190	211
3	---	---	---	---	---	---	---	---	---	329	193	208
4	---	---	---	---	---	---	---	---	---	282	188	206
5	---	---	---	---	---	---	---	---	---	352	208	282
6	---	---	---	---	---	---	---	---	---	304	252	270
7	---	---	---	---	---	---	---	---	---	265	249	257
8	---	---	---	---	---	---	---	---	---	259	56	167
9	---	---	---	---	---	---	---	---	---	160	69	106
10	---	---	---	---	---	---	---	---	---	246	160	203
11	---	---	---	---	---	---	---	---	---	262	60	118
12	---	---	---	---	---	---	---	---	---	206	69	106
13	---	---	---	---	---	---	---	---	---	394	206	301
14	---	---	---	---	---	---	---	---	---	420	264	325
15	---	---	---	---	---	---	236	216	223	292	82	253
16	---	---	---	---	---	---	663	106	207	276	82	154
17	---	---	---	---	---	---	247	130	199	360	120	218
18	---	---	---	---	---	---	282	143	231	198	46	126
19	---	---	---	---	---	---	239	176	210	358	163	199
20	---	---	---	---	---	---	292	257	265	426	169	262
21	---	---	---	---	---	---	379	269	283	296	101	150
22	---	---	---	---	---	---	358	266	279	340	154	256
23	---	---	---	---	---	---	285	118	264	364	169	297
24	---	---	---	---	---	---	169	81	119	362	318	339
25	---	---	---	---	---	---	225	141	180	344	65	130
26	---	---	---	---	---	---	350	210	228	312	127	171
27	---	---	---	---	---	---	357	129	204	250	200	218
28	---	---	---	---	---	---	162	109	122	268	234	247
29	---	---	---	---	---	---	175	139	156	380	135	254
30	---	---	---	---	---	---	193	174	184	210	85	165
31	---	---	---	---	---	---	202	178	188	266	163	215
MONTH	---	---	---	---	---	---	---	---	---	426	46	213

## SACRAMENTO RIVER BASIN

11447030 STRONG RANCH SLOUGH AT SACRAMENTO, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), DECEMBER 1972 TO SEPTEMBER 1973

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	228	169	191	412	250	303	---	---	---	327	247	275
2	460	230	283	364	284	318	---	---	---	304	244	270
3	464	47	332	404	58	211	---	---	---	289	259	275
4	154	55	117	264	144	224	---	---	---	296	280	289
5	190	146	173	---	---	---	---	---	---	436	290	380
6	181	56	95	---	---	---	---	---	---	371	293	330
7	226	135	189	---	---	---	---	---	---	328	294	308
8	314	226	264	---	---	---	---	---	---	315	279	294
9	---	---	---	---	---	---	---	---	---	326	248	289
10	---	---	---	---	---	---	---	---	---	335	245	280
11	---	---	---	---	---	---	---	---	---	535	262	345
12	---	---	---	---	---	---	377	299	334	327	243	286
13	---	---	---	---	---	---	390	123	283	404	258	328
14	---	---	---	---	---	---	237	156	204	309	273	300
15	---	---	---	---	---	---	301	230	254	314	290	296
16	---	---	---	---	---	---	356	303	332	287	237	256
17	---	---	---	---	---	---	336	288	313	436	246	275
18	---	---	---	---	---	---	319	247	278	420	277	344
19	---	---	---	---	---	---	508	265	320	434	270	329
20	---	---	---	---	---	---	502	416	461	359	273	312
21	---	---	---	---	---	---	416	266	373	334	282	301
22	---	---	---	---	---	---	284	264	274	315	253	285
23	745	568	677	---	---	---	316	250	279	272	232	250
24	770	49	503	---	---	---	329	255	288	259	237	247
25	194	101	135	---	---	---	404	268	359	318	234	279
26	210	43	131	---	---	---	323	243	278	277	201	232
27	154	51	102	---	---	---	229	201	217	288	224	269
28	270	124	211	217	149	187	430	184	215	349	201	249
29	---	---	---	312	216	252	396	287	359	385	201	298
30	---	---	---	307	102	195	342	270	291	296	156	228
31	---	---	---	---	---	---	---	---	---	283	245	271
MONTH	---	---	---	---	---	---	---	---	---	535	156	289

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, AUGUST 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
SEPT., 1972							
25...	2355	18.5	9.6	287	7.4	--	--
OCT.							
11...	0750	17.0	40	197	21	28	45
11...	1025	16.0	158	403	172	29	41
11...	1210	16.0	51	135	19	--	--
NOV.							
03...	1730	17.0	2.4	215	1.4	26	46
03...	1910	16.5	25	188	13	36	54
03...	2130	16.0	33	70	6.2	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
SEPT., 1972						
25...	--	--	--	82	95	100
OCT.						
11...	58	77	92	96	99	100
11...	56	72	88	96	100	--
11...	--	--	--	99	100	--
NOV.						
03...	59	73	88	95	99	100
03...	69	82	91	97	99	100
03...	--	--	--	99	100	--



LOCATION.--Lat 38°35'12", long 121°30'16", Sacramento County, at gaging station 1,000 ft upstream from I Street Bridge, in city of Sacramento, and 0.5 mile downstream from American River.

PERIOD OF RECORD---Chemical analyses: January to December 1906, December 1907 to December 1908, water years 1951-52 (partial-record station), October 1952 to May 1960. Published as "above" in 1906-08. Water temperatures: May 1955 to September 1973. Sediment records: October 1956 to September 1973. Turbidity: October 1971 to September 1973.

Water temperatures: Maximum, 23.5°C June 6, July 2; minimum, 3.0°C Dec. 14.  
Sediment concentrations: Maximum daily, 445 mg/l Nov. 18; minimum daily, 14 mg/l June 29.  
Sediment loads: Maximum daily, 68,200 tons Jan. 13; minimum daily, 541 tons June 29.

Water temperatures: Maximum (1955-62, 1963-66, 1967-73), 28.0°C on several days in 1969 and 1970; minimum (1955-73), 3.0°C Dec. 14, 1973.

Sediment concentrations (1956-73): Maximum daily, 1,960 mg/l Dec. 24, 1964; minimum daily 11 mg/l Nov. 30, 1959 (estimated), and Nov. 28, 1969.  
Sediment loads (1956-73): Maximum daily, 525,000 tons Dec. 24, 1964; minimum daily, 200 tons (estimated) Dec. 14, 1959.

REMARKS--The maximum-minimum temperature record for the auxiliary station approximately 8 miles downstream, Sacramento River at Freeport, Calif. (sta 11447650), is considered as being part of this IHD station.

[illegible]

## SACRAMENTO RIVER BASIN

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	17000	31	1420	15100	18	734	24500	57	3770
2	16800	22	998	14800	15	599	24100	57	3710
3	16500	25	1110	14500	15	587	23600	59	3760
4	16100	22	956	14800	18	719	22800	55	3390
5	15800	23	981	14700	20	794	22300	47	2830
6	15300	27	1120	15000	16	648	22200	54	3240
7	14900	32	1290	15600	16	674	21600	42	2450
8	14900	40	1610	15600	21	885	21200	38	2180
9	14900	43	1730	15000	23	932	21000	36	2040
10	15000	37	1500	15700	23	975	20900	35	1980
11	15900	29	1240	16800	24	1090	20500	35	1940
12	16100	27	1170	18300	31	1530	20600	29	1610
13	16400	26	1150	21100	68	3870	20200	25	1360
14	16600	24	1080	22900	123	7610	20000	29	1570
15	16600	21	941	26000	155	10900	19500	29	1530
16	17000	22	1010	33700	196	17800	19300	23	1200
17	17300	28	1310	36500	228	22500	19900	32	1720
18	17800	36	1730	37000	445	44500	23700	50	3200
19	17700	39	1860	34200	375	34600	33600	260	23600
20	17300	39	1820	31900	200	17200	40100	430	46600
21	16900	34	1550	30700	108	8950	42200	385	43900
22	16200	29	1270	29200	92	7250	42200	280	31900
23	15800	30	1280	27800	81	6080	39700	175	18800
24	15500	33	1380	26700	75	5410	38600	127	13200
25	15300	33	1360	26200	71	5020	37600	183	18600
26	15300	27	1120	25700	69	4790	35800	137	13200
27	15500	20	837	25600	57	3940	33600	83	7530
28	15400	19	800	25200	62	4220	31400	93	7880
29	15700	21	890	25100	60	4070	30000	80	6480
30	15500	22	921	24700	51	3400	29100	78	6130
31	15200	21	862	--	--	--	28300	71	5430
TOTAL	498400	--	38296	696100	--	222277	850100	--	286730

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	28100	58	4400	62200	127	21300	72700	142	27900
2	28400	57	4370	61200	110	18200	73300	101	20000
3	28000	54	4080	59200	96	15300	72800	91	17900
4	27000	51	3720	58400	89	14000	72900	93	18300
5	26800	50	3620	58400	88	13900	72100	99	19300
6	27600	47	3500	58700	100	15800	71100	92	17700
7	28100	43	3260	62000	160	26800	70800	88	16800
8	29100	58	4560	65300	145	25600	71400	76	14700
9	31600	87	7420	67400	125	22700	70700	54	10300
10	37000	110	11000	72300	134	26200	69400	59	11100
11	45300	192	23500	75600	125	25500	67800	59	10800
12	56800	345	52900	75700	100	20400	66100	65	11600
13	82800	305	68200	77200	90	18800	63300	120	20500
14	90200	128	31200	78300	81	17100	59300	143	22900
15	89300	113	27200	77900	79	16600	54200	150	22000
16	82800	190	42500	73500	79	15700	46100	148	18400
17	83900	195	44200	71400	78	15000	40700	108	11900
18	89000	132	31700	70400	70	13300	37200	106	10600
19	92700	125	31300	69300	65	12200	34400	106	9850
20	88800	111	26600	68100	72	13200	32800	87	7700
21	83300	118	26500	66100	71	12700	33100	82	7330
22	77300	170	35500	63000	77	13100	38300	162	16800
23	73600	150	29800	59400	87	14000	43800	268	31700
24	71500	153	29500	54900	125	18500	45000	248	30100
25	70800	142	27100	51500	145	20200	41100	125	13900
26	70600	123	23400	50600	125	17100	36900	93	9270
27	68300	121	22300	53400	141	20300	33600	99	8980
28	66100	123	22000	65800	155	27500	30300	98	8020
29	64100	127	22000	--	--	--	27600	84	6260
30	62600	127	21500	--	--	--	26200	74	5230
31	62600	127	21500	--	--	--	25900	87	6080
TOTAL	1864100	--	710330	1827200	--	511000	1600900	--	463920

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

[illegible]

## SACRAMENTO RIVER BASIN

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE MENT (MG/L)	SUS- PENDE MENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
OCT.										
31...	1130	12.5	15200	--	20	821	--	--	--	--
NOV.										
16...	1930	10.0	33700	--	437	39800	--	--	--	--
27...	1125	11.0	25600	--	54	3730	--	--	--	--
DEC.										
12...	1430	4.5	20600	--	20	1110	--	--	--	--
20...	0940	7.0	--	40600	630	68200	20	28	37	45
20...	1350	7.0	--	40000	391	42200	32	42	57	67
21...	1050	9.0	--	42400	372	42600	29	40	54	69
21...	1400	9.0	--	42400	328	37500	31	44	58	74
22...	1130	9.0	--	42600	216	24800	32	44	57	70
26...	1300	--	35800	--	126	12200	33	50	65	80
JAN.										
03...	1115	6.5	28000	--	47	3550	19	29	37	49
12...	1020	8.0	--	54600	285	43700	20	26	36	47
13...	0910	8.5	--	81500	312	68700	16	22	29	36
15...	1000	--	--	89200	94	22600	35	41	44	47
17...	0920	9.0	--	83900	161	36500	32	42	51	58
19...	0940	8.0	--	93000	99	24900	28	35	43	45
20...	1350	9.5	--	88500	78	18600	26	29	39	43
22...	1435	9.0	--	76700	145	30000	34	44	52	57
23...	1530	8.0	--	73400	92	18200	45	54	63	67
25...	1440	8.0	--	70700	143	27300	27	34	39	42
27...	1330	8.0	--	67900	156	28600	18	23	27	32
30...	1540	8.0	--	62200	142	23800	17	23	32	41
FEB.										
02...	1435	9.5	--	61900	90	15000	21	29	37	46
08...	1145	9.5	--	65300	152	26800	28	36	46	54
09...	2300	10.0	--	69100	136	25400	--	--	--	--
11...	1330	10.5	--	75600	183	37400	25	33	38	41
14...	1525	9.0	--	77900	105	22100	30	37	45	47
20...	1520	9.5	--	68100	90	16500	19	27	35	42
27...	1010	10.5	--	51400	208	28900	24	34	44	57
28...	1400	--	--	66600	117	21000	--	--	--	--
MAR.										
01...	1355	11.0	--	73000	150	29600	27	34	39	45
03...	1330	10.0	--	72600	96	18800	33	41	47	47
13...	2300	--	--	62000	101	16900	--	--	--	--
23...	2300	10.0	--	45300	149	18200	--	--	--	--
APR.										
12...	1030	16.0	20000	--	61	3290	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT.									
31...	--	--	73	--	89	--	100	--	--
NOV.									
16...	--	87	--	98	--	100	--	--	--
27...	--	--	90	--	96	--	100	--	--
DEC.									
12...	--	--	82	--	90	--	100	--	--
20...	52	58	--	66	--	72	--	99	100
20...	76	84	--	95	--	99	--	100	--
21...	78	87	--	97	--	100	--	--	--
21...	83	92	--	98	--	100	--	--	--
22...	80	86	--	95	--	99	--	100	--
26...	93	--	98	--	100	--	--	--	--
JAN.									
03...	62	72	--	84	--	96	--	100	--
12...	59	67	--	83	--	97	--	100	--
13...	44	51	--	72	--	94	--	100	--
15...	54	56	--	65	--	94	--	100	--
17...	65	70	--	77	--	93	--	100	--
19...	51	57	--	72	--	93	--	100	--
20...	50	55	--	75	--	97	--	100	--
22...	61	66	--	77	--	90	--	100	--
23...	72	78	--	83	--	90	--	100	--
25...	46	48	--	67	--	96	--	100	--
27...	36	39	--	56	--	89	--	100	--
30...	49	56	--	69	--	98	--	100	--
FEB.									
02...	56	61	--	74	--	98	--	100	--
08...	62	67	--	78	--	97	--	100	--
09...	--	--	94	--	96	--	100	--	--
11...	44	47	--	53	--	74	--	100	--
14...	50	55	--	62	--	96	--	100	--
20...	50	55	--	64	--	96	--	100	--
27...	70	79	--	86	--	99	--	100	--
28...	--	--	88	--	92	--	100	--	--
MAR.									
01...	52	57	--	71	--	97	--	100	--
03...	49	51	--	63	--	99	--	100	--
13...	--	--	87	--	91	--	100	--	--
23...	--	--	97	--	100	--	--	--	--
APR.									
12...	--	--	94	--	100	--	--	--	--

## SACRAMENTO RIVER BASIN

411

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	RED MAT. SIEVE DIAM. % FINER THAN .062 MM	RED MAT. SIEVE DIAM. % FINER THAN .125 MM	RED 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
FEB.										
02...	1445	9.5	5	61800	1	3	8	67	98	100
27...	1030	10.5	4	51400	--	--	2	25	88	100

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	SUS- PENDE SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)	DATE	TIME	TEMPER- ATURE (DEG C)	SUS- PENDE SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
OCT.					DEC.				
01...	1530	19.0	28	10	16...	1500	--	22	7
02...	1530	18.0	20	8	17...	2030	--	38	15
03...	1530	--	22	9	18...	1330	--	44	15
03...	1600	17.0	28	10	19...	2230	--	480	110
04...	2345	16.0	22	10	20...	0900	--	496	110
05...	1530	--	23	9	20...	1700	--	334	100
09...	1530	--	44	15	20...	2230	--	326	100
11...	1530	16.0	29	10	21...	1300	--	436	120
14...	1530	15.0	24	10	21...	1730	--	422	120
15...	2100	16.0	20	8	21...	2400	--	399	110
17...	1500	17.0	29	15	22...	1030	--	255	95
23...	1700	--	38	15	22...	1430	--	236	85
23...	2130	15.0	25	10	23...	1130	9.5	178	65
24...	2200	15.0	34	25	23...	2330	9.5	148	50
27...	2200	13.0	18	8	24...	2000	9.5	125	40
30...	2200	--	22	9	25...	1700	--	201	65
31...	1155	12.5	24	8	26...	1300	--	126	45
31...	2200	--	17	8	27...	1300	7.5	84	30
NOV.					28...	2200	--	92	30
02...	2225	12.0	14	7	29...	1500	7.5	75	25
03...	2320	14.0	15	8	30...	2000	--	78	20
04...	1830	14.5	21	9	31...	2330	7.0	64	20
05...	2010	--	18	10	JAN.				
06...	1630	14.5	15	9	01...	2300	8.0	54	15
08...	1710	13.0	22	20	02...	2345	7.5	60	15
09...	2330	11.0	24	20	03...	2230	7.0	50	15
13...	2215	10.5	108	25	04...	2230	--	51	15
14...	2230	10.5	127	40	06...	1730	7.0	46	10
15...	1530	11.0	164	65	07...	2000	7.5	43	10
16...	1930	10.0	437	120	09...	2310	8.0	100	30
17...	2000	10.5	248	80	10...	1730	8.5	113	30
18...	1530	11.0	532	130	11...	2100	--	254	55
19...	1530	12.0	342	120	12...	0950	8.0	324	70
20...	2330	11.0	137	45	12...	1050	8.0	394	65
21...	1700	10.0	98	30	12...	1300	--	286	70
22...	1530	11.5	90	25	12...	2010	--	412	80
23...	1530	--	78	20	13...	0845	8.5	336	65
24...	1830	--	74	20	13...	0935	8.5	366	65
25...	1600	--	70	20	13...	1315	9.0	317	55
26...	2130	--	68	20	13...	2000	--	190	45
27...	1125	11.0	54	15	13...	2350	--	164	45
28...	2200	--	69	15	14...	1110	9.5	140	35
29...	1510	10.0	56	15	14...	1600	--	100	35
30...	1530	9.0	52	15	15...	0930	--	152	45
DEC.					15...	1045	--	108	40
01...	2330	8.5	58	15	15...	1720	9.5	126	50
02...	2345	8.5	56	15	15...	2345	9.5	142	55
03...	1900	--	61	15	16...	1745	9.5	217	75
04...	2200	7.0	51	15	16...	2215	9.5	214	75
05...	2315	6.5	47	15	17...	0845	9.0	150	75
06...	1300	--	58	15	17...	0950	9.0	212	75
07...	1900	4.5	40	15	17...	1210	10.0	212	65
09...	2240	4.5	36	10	17...	1900	10.0	178	60
11...	2300	4.5	34	10	17...	2300	10.0	130	50
12...	1430	4.5	20	10	18...	1210	10.0	133	40
12...	1450	4.5	26	9	18...	1900	9.0	149	45
12...	1500	4.0	27	10	18...	2345	9.0	156	45
13...	2200	3.5	26	9	19...	0910	8.0	126	45
14...	2230	3.0	30	10	19...	1015	8.0	106	45
15...	1800	3.5	28	10	19...	1310	--	118	35

## SACRAMENTO RIVER BASIN

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	SUS- PENDED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)	DATE	TIME	TEMPER- ATURE (DEG C)	SUS- PENDED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
JAN.					MAR.				
19...	2330	--	108	40	25...	2200	--	89	30
20...	1320	9.5	112	35	26...	1545	11.0	94	25
20...	1330	--	116	30	28...	2300	12.0	94	25
20...	1420	9.5	138	35	29...	1800	13.0	78	25
20...	2330	--	100	35	30...	2300	13.0	78	25
21...	1445	--	120	50	APR.				
22...	1425	9.0	168	70	02...	2200	13.0	112	20
22...	1530	9.0	174	80	04...	2345	14.0	86	20
22...	2345	--	156	70	05...	2330	13.5	62	20
23...	1510	8.0	200	75	06...	2030	12.5	60	20
23...	2230	7.5	138	60	08...	1330	--	55	20
24...	1300	7.5	158	60	10...	1745	15.5	48	15
25...	1415	8.0	127	60	11...	1245	--	40	15
25...	1515	8.0	184	45	12...	1030	16.0	61	20
25...	2345	--	128	50	12...	1245	16.5	43	15
27...	1305	8.0	118	50	13...	2200	--	51	15
27...	1355	8.0	121	45	14...	2010	15.0	59	20
28...	2330	8.0	126	40	16...	2230	--	55	20
30...	1510	8.0	122	35	18...	1210	16.0	56	15
30...	1610	8.0	127	40	19...	1215	16.5	60	20
30...	2345	8.5	126	35	20...	1215	--	60	20
31...	2330	--	128	35	22...	1610	--	62	20
FEB.					24...	1215	18.5	42	15
01...	2300	--	126	40	25...	1215	18.5	52	15
02...	1410	9.5	106	30	26...	1215	19.0	44	15
02...	1530	9.5	101	30	27...	1215	18.5	38	10
03...	2300	--	94	30	28...	1730	17.5	40	15
04...	2300	10.0	88	30	30...	1215	--	40	15
06...	2330	10.0	115	30	MAY				
07...	1930	10.0	194	70	01...	1215	19.0	34	10
08...	0920	9.5	166	60	02...	1215	17.5	38	15
08...	1035	9.5	148	60	03...	1215	17.5	36	10
08...	2345	10.0	111	40	04...	1215	17.0	28	10
09...	2300	10.0	136	70	06...	1415	17.5	38	15
10...	2300	10.0	130	60	07...	1210	--	30	15
11...	1205	10.5	119	70	08...	1815	19.0	29	15
11...	1250	10.5	122	65	09...	1215	19.5	23	15
11...	2300	10.0	126	55	10...	1215	20.0	30	15
12...	1300	--	92	50	11...	1215	--	33	15
13...	1300	--	92	40	12...	2030	--	36	15
14...	1450	9.0	93	45	15...	0915	20.5	35	15
14...	1500	--	65	40	15...	1745	--	36	15
14...	1605	9.0	82	40	16...	1810	--	36	15
17...	2300	--	76	35	17...	1810	--	41	15
18...	2345	9.5	64	35	20...	1815	21.0	60	60
20...	1455	9.5	73	25	21...	1245	20.5	45	20
20...	1555	9.5	76	25	23...	1245	20.0	56	20
20...	2345	--	75	25	24...	1810	19.0	60	20
21...	2200	10.5	68	25	26...	1730	19.0	62	20
22...	2130	11.0	84	25	27...	1720	19.5	58	20
23...	2200	11.0	84	25	29...	1745	--	67	20
24...	2400	11.0	165	45	31...	1815	21.0	44	20
25...	2345	--	126	35	JUNE				
26...	2200	10.5	130	30	01...	1810	--	39	15
27...	0930	10.5	215	65	02...	2010	21.5	40	15
27...	1020	--	217	65	03...	2115	22.0	41	15
28...	1400	--	117	70	04...	1810	23.0	35	15
MAR.					05...	1810	23.0	--	10
01...	1320	11.0	148	50	06...	1750	23.5	40	15
01...	1410	11.0	148	55	07...	1750	--	55	20
01...	1830	--	118	40	08...	1810	--	32	10
03...	1305	10.0	84	35	10...	1530	21.5	24	9
03...	1350	10.0	102	35	11...	1330	--	44	5
03...	1600	10.0	87	35	12...	1745	21.0	26	8
05...	1900	11.0	100	35	13...	1810	20.0	27	8
06...	2200	10.0	86	30	14...	1800	19.5	36	15
07...	2330	11.0	86	30	15...	1830	20.0	38	10
08...	2200	10.0	64	25	17...	2215	19.5	23	10
10...	2145	--	62	30	20...	1810	--	49	10
11...	2200	10.0	59	30	22...	1240	21.5	18	10
12...	2330	10.0	93	25	24...	1510	22.5	30	10
13...	2300	--	101	50	25...	1805	--	31	15
16...	2300	12.0	135	30	26...	1310	22.5	38	15
17...	1345	11.0	100	25	26...	1445	22.0	40	15
18...	2200	12.0	108	25	27...	1810	--	26	15
20...	1900	12.0	81	30	28...	1805	--	17	10
21...	2200	--	90	25	JULY				
22...	2130	10.0	231	55	02...	1805	23.5	26	15
23...	2300	10.0	149	55	03...	1310	23.0	28	10
24...	1630	--	240	55	04...	2315	--	25	10

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	SUS- PENDE SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)	DATE	TIME	TEMPER- ATURE (DEG C)	SUS- PENDE SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
JULY					AUG.				
05...	1810	--	36	15	19...	2310	21.0	36	15
08...	1715	23.0	26	15	21...	1830	22.0	52	15
09...	1810	--	19	10	22...	1805	--	51	15
11...	1805	--	31	15	25...	1840	22.0	48	15
12...	1230	22.5	36	15	27...	1810	21.5	65	15
13...	1800	--	32	15	28...	1810	21.5	62	15
16...	1245	21.0	32	15	29...	1740	22.0	54	15
17...	1810	22.0	37	15	30...	1315	--	50	15
18...	2215	22.0	30	10	31...	1830	20.5	56	15
21...	1915	21.5	52	15	SEP.				
23...	2130	22.0	50	10	03...	1330	22.0	48	15
24...	1830	--	56	6	04...	1800	20.5	34	15
25...	1645	--	52	10	05...	1800	20.5	36	15
26...	2100	--	40	10	11...	1815	--	42	20
27...	2015	--	33	10	12...	2110	21.0	38	20
28...	2015	--	36	10	13...	2210	21.0	42	15
29...	1930	--	36	15	14...	2100	19.5	40	20
31...	1930	--	42	15	15...	2345	19.5	34	15
AUG.					16...	2130	18.5	32	15
01...	1900	--	40	15	18...	2210	19.0	42	20
02...	1730	--	46	15	19...	1800	19.0	40	15
03...	1500	--	39	15	22...	1530	18.0	38	15
04...	1630	--	44	15	23...	2100	17.5	38	15
05...	2230	22.0	34	15	24...	2330	17.5	34	15
06...	2330	--	29	15	25...	2010	18.0	36	15
07...	1835	22.0	38	15	26...	2030	19.0	35	15
09...	1930	--	50	20	27...	1040	18.0	42	15
10...	2315	20.0	40	15	27...	2045	--	31	15
12...	1905	20.5	44	15	28...	1145	18.0	40	10
13...	1405	--	48	15	28...	2200	17.5	27	10
16...	1620	--	44	15	29...	2200	17.5	20	10
17...	0810	20.5	40	15	30...	1900	17.5	28	10
17...	1255	--	39	15					

## WEIGHT-PERCENT-ORGANIC-MATTER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	WEIGHT- PERCENT ORGANIC MATTER	DATE	TIME	WEIGHT- PERCENT ORGANIC MATTER
DEC.					
20...	0940	0.44	JAN.		
21...	1400	1.38	03...	1115	2.02
22...	1130	1.40	12...	1020	.97
26...	1300	1.22	13...	0910	1.36
JAN.					
03...	1115	2.02	15...	1000	1.50
12...	1020	.97	17...	0920	1.05
13...	0910	1.36	19...	0940	1.36
15...	1000	1.50	20...	1350	.94
17...	0920	1.05	22...	1435	.49
19...	0940	1.36	23...	1530	2.10
20...	1350	.94	FEB.		
22...	1435	.49	02...	1435	.42
23...	1530	2.10	08...	0950	1.67
FEB.					
02...	1435	.42	11...	1230	.67
08...	0950	1.67	14...	1525	.32
11...	1230	.67	20...	1520	1.22
14...	1525	.32	27...	1010	2.10
20...	1520	1.22	MAR.		
27...	1010	2.10	01...	1355	3.30
MAR.					
01...	1355	3.30	03...	1330	.30
03...	1330	.30			

## SACRAMENTO RIVER BASIN

11447650 SACRAMENTO RIVER AT FREEPORT, CALIF.  
(National stream-quality accounting network and radiochemical station)

LOCATION.--Lat 38°27'20", long 121°30'07", in SE $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 14, T.7 N., R.4 E., Sacramento County, at drawbridge at Freeport, approximately 11 miles south of Sacramento.

PERIOD OF RECORD.--Chemical analyses: Water year 1959 (partial-record station), June 1960 to June 1971, water years 1972-73 (partial-record station).  
Water temperatures: June 1960 to September 1973.

## EXTREMES, 1972-73:

Water temperatures: Maximum, 23.0°C on several days during June to August; minimum, 4.5°C Dec. 12-15.

## Period of record:

Water temperatures: Maximum, 24.0°C June 16, 17, 1961, July 14-16, 1972; minimum, 4.5°C Dec. 12-15, 1972.

REMARKS.--Temperature recorder located on right bank 1.9 miles northwest of Freeport, and 7.5 miles southwest of State Capitol building in Sacramento. Data collected at this site are considered as being part of the International Hydrological Decade Station, Sacramento River at Sacramento (sta 11447500).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)
FEB.												
01...	0930	62200	20	1300	20	110	0	12	5.9	7.7	1.4	70
MAR.												
13...	1015	63300	18	--	--	--	--	12	6.1	6.7	1.0	71
APR.												
24...	1000	17800	18	--	--	--	--	14	6.5	8.8	1.3	73
MAY												
22...	1030	18200	19	1300	40	50	0	12	6.7	10	1.1	73
JUNE												
28...	1115	14200	18	--	--	--	--	11	6.4	10	1.1	76
JULY												
24...	1100	15900	19	--	--	--	--	12	6.3	8.9	1.0	74
AUG.												
22...	1030	15900	20	1400	20	80	70	13	6.9	12	1.2	85
SEP.												
18...	1030	18200	--	--	--	--	--	--	--	--	--	--

DATE	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)
FEB.												
01...	0	57	10	6.0	.1	.31	.41	.72	.14	106	98	.14
MAR.												
13...	0	58	10	4.3	.1	.20	.17	.37	.12	112	93	.15
APR.												
24...	0	60	12	6.3	.0	.13	.27	.40	.12	112	103	.15
MAY												
22...	0	60	12	6.6	.1	.05	.39	.44	.09	91	104	.12
JUNE												
28...	0	62	9.9	7.9	.1	.14	.55	.69	.16	100	102	.14
JULY												
24...	0	61	9.8	6.9	.1	.06	.25	.31	.12	119	100	.16
AUG.												
22...	0	70	12	7.8	.1	.09	.23	.32	.15	122	115	.17
SEP.												
18...	--	--	--	--	--	.13	.58	.71	.13	--	--	--



## SACRAMENTO RIVER BASIN

415

11447650 SACRAMENTO RIVER AT FREEPORT, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
FEB. 01...	54	0	23	.5	143	--	8.0	40	8600	270	220	4.0
MAR. 13...	55	0	21	.4	139	7.6	10.5	30	400	812	88	--
APR. 24...	62	2	23	.5	151	7.6	15.5	20	2300	820	88	--
MAY 22...	58	0	27	.6	160	7.5	20.0	20	5600	60	820	3.5
JUNE 28...	54	0	28	.6	146	7.8	22.5	10	5000	65	86	--
JULY 24...	56	0	25	.5	149	7.9	21.5	20	4000	50	820	--
AUG. 22...	61	0	30	.7	174	8.0	20.5	20	--	--	--	--
SEP. 18...	--	--	--	--	177	7.5	19.0	--	275	3	42	--

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
FEB. 01...	0930	4	2	20	0	30	0	40	2	40
MAY 22...	1030	2	1	0	0	0	0	<25	1	120
AUG. 22...	1030	6	1	<10	0	0	0	<25	0	<10

DATE	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
FEB. 01...	10	200	3	.1	.1	3	0	50	10
MAY 22...	10	<100	2	.0	.0	0	0	60	10
AUG. 22...	7	<50	1	.3	.0	6	6	50	60

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)
FEB. 01...	0930	<1.0	<.8	2.3	2.1	1.9	1.8	.02	.06
AUG. 02...	1030	<1.2	.4	1.8	.5	1.4	.4	.03	.13

## SACRAMENTO RIVER BASIN

11447650 SACRAMENTO RIVER AT FREEPORT, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

## PHYTOPLANKTON

DATE	PHYLUM .Class ..Order ...Family ....Genus .....Species	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
FEB. 01	CHLOROPHYTA .Chlorophyceae ...Chlorella ...Ulothrix	Green algae	3300 4700	36 51
	TOTAL PHYTOPLANKTON		9200	
MAR. 13...	CHRYSOPHYTA .Bacillariophyceae ...Melosira	Diatoms	290	60
	TOTAL PHYTOPLANKTON		480	
APR. 24...	CHRYSOPHYTA .Bacillariophyceae ...Asterionella ...Formosa ...Cyclotella ...Melosira	Diatoms	29 29 57	22 22 44
	TOTAL PHYTOPLANKTON		130	
MAY 22...	CHLOROPHYTA .Chlorophyceae ...Micractinium	Green algae	200	18
	CHRYSOPHYTA .Bacillariophyceae ...Pinnularia	Diatoms	240	22
	CYANOPHYTA .Myxophyceae ...Anabaena	Blue-green algae	320	29
	TOTAL PHYTOPLANKTON		1100	
JUNE 28...	CHLOROPHYTA .Chlorophyceae ...Scenedesmus	Green algae	1000	21
	CHRYSOPHYTA .Bacillariophyceae ...Melosira	Diatoms	1200	25
	TOTAL PHYTOPLANKTON		4800	
JULY 24...	CHLOROPHYTA .Chlorophyceae ...Scenedesmus	Green algae	2200	25
	TOTAL PHYTOPLANKTON		4600	
AUG. 22...	CHLOROPHYTA .Chlorophyceae ...Microspora ...Scenedesmus	Green algae	1000 1000	20 20
	CHRYSOPHYTA .Bacillariophyceae ...Fragilaria	Diatoms	800	16
	TOTAL PHYTOPLANKTON		5000	
SEP. 18...	CHRYSOPHYTA .Bacillariophyceae ...Cyclotella ...Fragilaria	Diatoms	490 970	18 36
	TOTAL PHYTOPLANKTON		2700	

## SACRAMENTO RIVER BASIN

417

11447650 SACRAMENTO RIVER AT FREEPORT, CALIF.--Continued  
 BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

PERIPHYTON 1/

DATE	PHYLUM .Class ..Order ...Family ....Genus .....Species	COMMON NAME	BIOMASS (G/M <sup>2</sup> )	
			DRY WEIGHT	ASH WEIGHT
MAR. 13...	CHRYSTOPHYTA ..Bacillariophyceae ....Navicula ....Synedra	Diatoms		
	TOTAL PERIPHYTON		6.9	5.4
MAY 22...	CHLOROPHYTA ..Chlorophyceae ....Stigeoclonium	Green algae		
	CHRYSTOPHYTA ..Bacillariophyceae ....Melosira	Diatoms		
	TOTAL PERIPHYTON		7.7	6.1
AUG. 22...	CHLOROPHYTA ..Chlorophyceae ....Stigeoclonium	Green algae		
	CHRYSTOPHYTA ..Bacillariophyceae ....Synedra	Diatoms		
	TOTAL PERIPHYTON		5.4	3.8

1/ Collected from polyethylene strip artificial substrate.

BENTHIC INVERTEBRATES 1/

DATE	PHYLUM .Class ..Order ...Family ....Genus .....Species	COMMON NAME	ORGANISM COUNT	BIOMASS (G/M <sup>2</sup> ) WET WEIGHT
MAR. 13...	ARTHROPODA ..Crustacea ..Amphipoda	Scuds	8	
	..Insecta ..Ephemeroptera ..Trichoptera	Mayflies Caddisflies	1 2	
	TOTAL		11	.3
MAY 22...	ARTHROPODA ..Crustacea ..Amphipoda	Scuds	74	
	..Insecta ..Diptera ...Chironomidae ..Ephemeroptera	Two-winged flies Mayflies	1 4	
	TOTAL		79	3.8

1/ Collected from multiplate artificial substrate.

## SACRAMENTO RIVER BASIN

11447650 SACRAMENTO RIVER AT FREEPORT, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	17.0	12.0	12.0	10.0	10.0	7.0	7.0	8.5	8.0	11.5	11.0
2	17.5	17.0	12.0	11.5	10.0	9.5	7.0	7.0	8.5	8.0	11.5	11.0
3	17.5	17.0	12.5	12.0	9.5	9.5	7.0	7.0	9.0	8.5	11.0	10.5
4	17.5	17.0	13.0	12.5	9.5	9.0	7.0	7.0	9.0	9.0	10.5	10.5
5	17.5	17.0	13.0	13.0	9.0	8.5	7.0	6.5	9.0	9.0	10.5	10.5
6	17.5	17.0	13.0	13.0	8.5	8.0	6.5	6.5	9.5	9.0	10.5	10.5
7	17.5	17.0	13.0	13.0	8.0	7.5	6.5	6.5	9.5	9.5	10.5	10.0
8	17.5	17.0	13.0	12.5	7.5	7.0	6.5	6.5	10.0	9.5	10.5	10.0
9	17.5	17.0	12.5	12.0	6.5	6.0	6.5	6.0	10.5	10.0	10.5	10.5
10	17.0	16.5	12.0	12.0	6.0	5.5	6.5	6.5	10.5	10.5	11.0	10.5
11	16.5	16.5	12.0	11.5	5.5	5.0	7.0	6.5	10.5	10.5	11.0	11.0
12	16.0	15.5	11.5	11.5	5.0	4.5	7.0	6.5	10.5	10.0	11.0	10.5
13	15.5	15.5	11.0	11.0	4.5	4.5	8.5	7.5	10.0	10.0	10.5	10.5
14	15.5	15.0	11.0	11.0	4.5	4.5	8.5	8.5	10.0	10.0	10.5	10.0
15	15.5	15.0	11.0	10.5	5.0	4.5	8.5	8.5	10.0	10.0	10.5	10.0
16	15.0	15.0	11.0	10.5	5.0	5.0	9.0	8.5	10.0	10.0	11.0	10.5
17	15.0	15.0	11.0	11.0	5.5	5.0	9.5	9.0	10.0	10.0	11.0	11.0
18	15.5	15.0	11.0	11.0	6.0	5.5	9.5	8.5	10.0	10.0	11.5	11.0
19	15.5	15.0	11.0	11.0	7.0	6.0	9.0	8.5	10.0	10.0	11.5	11.0
20	15.5	15.0	11.0	11.0	7.0	6.5	8.5	8.0	10.0	10.0	11.0	11.0
21	15.0	15.0	11.0	10.5	7.5	6.5	8.0	8.0	10.5	10.0	11.0	10.5
22	15.0	15.0	10.5	10.5	8.0	7.5	8.0	8.0	10.5	10.5	10.5	10.0
23	15.0	15.0	10.5	10.5	8.5	8.5	8.0	7.5	10.5	10.5	10.5	10.0
24	15.5	15.0	10.5	10.0	9.0	8.5	8.0	7.5	10.5	10.5	10.5	10.0
25	15.0	15.0	10.0	10.0	9.0	9.0	8.0	7.5	10.5	10.5	11.5	10.5
26	15.0	14.5	10.0	10.0	9.0	9.0	8.0	7.5	10.5	10.5	12.0	11.5
27	15.0	14.5	10.0	10.0	9.0	8.5	8.0	7.5	11.0	10.5	12.5	12.0
28	14.5	14.0	10.0	10.0	8.5	8.0	8.0	7.5	11.0	11.0	13.0	12.5
29	14.0	13.5	10.0	10.0	8.0	7.5	8.0	7.5	---	---	13.0	12.5
30	13.5	12.5	10.0	10.0	7.5	7.5	8.0	7.5	---	---	12.5	12.5
31	12.5	12.0	---	---	7.5	7.0	8.0	8.0	---	---	12.5	12.0
MONTH	17.5	12.0	13.0	10.0	10.0	4.5	9.5	6.0	11.0	8.0	13.0	10.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	12.0	18.5	18.0	---	---	23.0	22.5	23.0	22.5	20.5	20.0
2	12.5	12.0	18.0	18.0	---	---	22.5	22.5	23.0	23.0	20.0	20.0
3	12.5	12.0	18.0	18.0	---	---	22.5	22.0	23.0	22.5	20.0	20.0
4	12.5	12.0	18.0	17.5	---	---	22.5	22.0	23.0	22.5	20.0	20.0
5	13.5	12.5	17.5	17.5	---	---	23.0	22.0	23.0	22.5	20.0	20.0
6	14.0	13.0	---	---	22.0	21.0	22.5	22.5	22.5	22.5	20.0	19.5
7	14.5	14.0	---	---	22.0	21.5	22.5	22.0	22.5	22.0	20.0	20.0
8	15.0	14.0	---	---	22.0	21.5	22.0	21.5	22.5	22.0	20.0	20.0
9	15.0	14.5	18.0	17.5	22.5	22.0	22.0	21.5	22.0	21.5	20.0	19.5
10	15.5	14.5	18.5	18.0	22.0	22.0	22.5	22.0	22.0	21.5	20.0	19.5
11	15.5	14.5	19.0	18.5	22.0	21.5	22.5	22.0	22.0	21.5	20.0	19.5
12	16.0	15.0	19.5	19.0	21.0	20.5	22.5	22.0	22.0	21.5	20.0	19.5
13	16.0	15.0	19.5	19.5	20.5	20.0	22.5	22.0	22.0	21.5	20.0	20.0
14	16.0	15.5	20.0	19.5	20.0	19.5	22.0	22.0	22.0	21.5	20.0	19.5
15	16.0	15.5	20.0	20.0	20.0	19.5	22.0	21.5	22.5	22.0	20.0	19.5
16	16.0	15.5	20.5	20.0	19.5	19.5	22.0	21.5	22.5	22.0	19.5	19.5
17	16.0	15.5	21.0	20.5	19.5	19.5	21.5	21.5	22.5	21.5	19.5	19.0
18	16.0	15.5	21.5	20.5	19.5	19.5	21.5	21.0	22.0	21.5	19.5	19.0
19	16.0	15.5	21.5	21.0	20.0	19.5	21.5	20.5	22.0	21.5	19.5	19.0
20	15.5	15.5	21.0	20.5	20.5	20.0	21.5	21.0	21.5	21.5	19.5	19.0
21	15.5	15.0	20.5	20.0	21.5	20.5	21.0	21.0	21.5	21.0	19.5	19.5
22	16.0	15.5	20.5	20.0	21.5	21.5	21.0	21.0	21.5	21.0	19.5	19.0
23	16.5	16.0	20.0	19.5	21.5	21.0	21.5	21.0	20.5	20.5	19.0	18.5
24	17.0	16.5	20.0	19.5	21.5	21.0	21.5	21.0	20.5	20.0	18.5	18.0
25	17.5	17.0	20.0	19.5	21.5	21.0	22.0	21.5	20.5	20.0	18.5	18.0
26	18.5	17.5	19.5	19.0	22.5	21.5	22.5	22.0	20.5	20.0	18.0	17.5
27	18.5	18.0	19.0	19.0	23.0	22.5	23.0	22.0	20.0	20.0	17.5	17.5
28	18.5	18.5	19.5	19.0	23.0	23.0	23.0	22.5	20.0	20.0	18.0	17.5
29	18.5	18.0	20.0	19.5	23.0	23.0	23.0	22.0	20.5	20.0	18.0	17.5
30	18.0	18.0	20.5	20.0	23.0	22.5	22.5	22.5	20.5	20.5	18.0	17.5
31	---	---	21.0	20.5	---	---	23.0	22.5	20.5	20.0	---	---
MONTH	18.5	12.0	21.5	17.5	23.0	19.5	23.0	20.5	23.0	20.0	20.5	17.5

## SACRAMENTO RIVER BASIN

419

11447810 SACRAMENTO RIVER AT GREEN'S LANDING, NEAR COURTLAND, CALIF.

LOCATION.--Lat 38°20'45", long 121°32'42", in NE¼ sec.28, T.6 N., R.4 E., Sacramento County, on left bank, 2.2 miles upstream from Sutter Slough, and 1.6 miles northeast of Courtland.

PERIOD OF RECORD.--Chemical analyses: October 1952 to September 1958, June 1971 to September 1973. Published as "at Snodgrass Slough, near Courtland" in 1953-58.

REMARKS.--Chemical-quality samples collected and selected analyses furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV.											
08...	1220	--	--	10	4.7	6.2	1.0	59	0	48	5.6
15...	1030	19	40	14	6.6	13	1.7	74	0	61	18
DEC.											
20...	1305	17	50	9.4	4.8	6.5	1.5	53	0	43	7.4
JAN.											
17...	1230	13	50	9.5	3.9	4.9	1.5	47	0	39	5.7
FEB.											
07...	1225	7.3	--	11	6.4	7.3	1.1	62	0	51	7.1
21...	1205	19	50	12	5.8	7.0	1.3	70	0	57	8.5
MAR.											
21...	1235	19	50	15	7.4	8.9	1.1	81	0	66	12
APR.											
18...	1355	18	30	13	6.5	8.0	1.2	73	0	60	10
MAY											
09...	1245	--	--	12	6.1	10	1.0	66	0	54	7.7
16...	0735	21	9	14	7.0	12	1.3	79	0	65	15
JUNE											
20...	1030	18	30	12	6.5	11	1.2	73	0	60	12
JULY											
18...	0830	18	--	10	6.0	9.7	1.1	69	0	57	8.0
AUG.											
08...	1300	--	--	11	7.7	10	.8	75	0	62	8.2
15...	1330	18	40	13	7.1	12	1.2	82	0	67	10
SEP.											
19...	1215	18	50	12	7.2	13	1.3	89	0	73	9.9

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
NOV.										
08...	4.2	--	.34	--	--	84	--	.11	45	0
15...	10	.2	--	.37	.21	--	121	.16	62	1
DEC.										
20...	4.9	.1	--	.28	.42	--	79	.11	43	0
JAN.										
17...	4.1	.2	--	.29	.18	--	67	.09	40	1
FEB.										
07...	7.0	--	.36	--	--	86	79	.12	54	3
21...	4.6	.3	--	.20	.14	--	94	.13	54	0
MAR.										
21...	7.0	.1	--	.22	.16	--	112	.15	68	2
APR.										
18...	6.0	.0	--	.18	.12	--	100	.14	59	0
MAY										
09...	7.7	--	.43	--	--	91	--	.12	54	1
16...	9.7	.1	--	.10	.11	--	120	.16	64	0
JUNE										
20...	7.7	.1	--	.11	.14	--	105	.14	57	0
JULY										
18...	7.3	.1	--	.11	.13	--	95	.13	50	0
AUG.										
08...	7.1	--	.27	--	--	104	--	.14	59	0
15...	8.0	.0	--	.08	.16	--	110	.15	62	0
SEP.										
19...	9.7	.2	--	.11	.14	--	116	.16	60	0

## SACRAMENTO RIVER BASIN

11447810 SACRAMENTO RIVER AT GREEN'S LANDING, NEAR COURTLAND, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)
NOV.										
08...	23	.4	126	--	13.5	--	--	0	--	--
15...	31	.7	170	7.3	11.0	40	9.5	60	0	130
DEC.										
20...	24	.4	129	7.3	7.5	100	10.9	50	0	120
JAN.										
17...	20	.3	100	7.2	10.0	70	10.0	40	0	50
FEB.										
07...	22	.4	143	--	10.0	--	--	0	--	--
21...	22	.4	139	7.3	10.0	30	9.8	40	0	90
MAR.										
21...	22	.5	150	7.3	11.0	30	9.9	20	0	110
APR.										
18...	22	.5	155	7.3	15.0	20	9.5	50	0	110
MAY										
09...	28	.6	160	--	19.0	--	--	0	--	--
16...	29	.7	180	7.3	21.0	7	9.0	60	0	120
JUNE										
20...	29	.6	135	7.3	21.0	8	8.2	40	0	100
JULY										
18...	29	.6	125	--	21.0	10	7.9	60	--	--
AUG.										
08...	27	.6	159	--	21.0	--	--	100	--	--
15...	29	.7	160	7.4	23.0	10	7.5	60	0	80
SEP.										
19...	32	.7	150	7.5	20.5	10	8.8	60	0	100

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	PHENOLS (UG/L)
OCT.									
18...	0	0	10	30	0	0	0	10	0
NOV.									
15...	0	0	10	50	0	0	10	10	0
DEC.									
20...	0	0	20	130	0	10	0	10	1
JAN.									
17...	0	0	0	80	10	0	0	0	0
FEB.									
21...	0	0	10	150	0	0	0	10	0
MAR.									
21...	0	0	10	120	10	0	10	10	0
APR.									
18...	0	0	10	60	0	0	10	10	0
MAY									
16...	0	0	10	20	0	0	10	10	--
JUNE									
20...	0	0	10	30	0	0	0	10	--
JULY									
18...	0	0	10	20	0	0	10	10	--
AUG.									
15...	0	0	0	40	0	20	0	0	--
SEP.									
19...	0	0	0	50	0	0	10	0	--

## 421

LOCATION.--Lat 38°56'54", long 122°54'03", in NE $\frac{1}{4}$  sec.30, T.13 N., R.9 W., Lake County, at outlet of Highland Creek Dam, 500 ft upstream from gaging station, and 4.0 miles southwest of Kelseyville.

PERIOD OF RECORD.--Chemical analyses: Water years 1968-73 (partial-record station). Published as sta 11448900 "above Highland Creek Dam" in 1968.  
Water temperatures: November 1966 to September 1973.  
Sediment records: December 1965 to September 1973.

Sediment concentrations: Maximum daily, 300 mg/l Jan. 18; minimum daily, no flow for many days.  
Sediment discharge: Maximum daily, 390 tons Jan. 18; minimum daily, 0 tons on many days.

Sediment concentrations: Maximum daily, 300 mg/l Jan. 18, 1973; minimum daily, no flow for many days in 1966-73.  
Sediment discharge: Maximum daily, 390 tons Jan. 18, 1973; minimum daily, 0 tons on many days in 1966-73.

REMARKS.--No flow Oct. 4 to Nov. 12, May 9 to Sept. 15. Bed at sampling point is concrete outlet from dam with no material over concrete.

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS-	DIS-	DIS-	BICAR- BONATE (HCO3)	CAR- BONATE (CO3)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	
			SOLVED CAL- CIUM (CA) (MG/L)	SOLVED MAG- NE- SIUM (MG) (MG/L)	SOLVED SODIUM (NA) (MG/L)					SOLVED TAS- SIUM (K) (MG/L)
NOV. 17...	1400	19	27	20	10	1.0	205	0	168	7.5
DEC. 08...	0955	5.8	27	19	9.9	1.3	192	0	157	12
JAN. 12...	0900	459	10	6.7	3.2	.8	61	0	50	6.2
MAR. 15...	1055	27	20	12	5.2	.7	120	0	98	6.1

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON-CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP- TION RATIO	SPE-CIFIC CON-DUCT- ANCE (MICRO-MHOS)	PH  (UNITS)	TEMPER- ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
NOV. 17...	5.1	150	0	13	.4	323	7.0	10.0	33
DEC. 08...	4.4	150	0	13	.4	307	7.2	7.0	19
JAN. 12...	2.0	53	3	12	.2	97	7.6	7.0	2.5
MAR. 15...	2.6	99	1	10	.2	195	7.6	10.5	4.8

[illegible]

11449010 HIGHLAND CREEK BELOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	.05	13	0	0	0	0	1.6	9	.04
2	.05	13	0	0	0	0	1.6	9	.04
3	.01	10	0	0	0	0	1.8	10	.05
4	0	0	0	0	0	0	2.2	11	.07
5	0	0	0	0	0	0	2.4	10	.06
6	0	0	0	0	0	0	9.4	8	.20
7	0	0	0	0	0	0	9.4	8	.20
8	0	0	0	0	0	0	6.3	6	.10
9	0	0	0	0	0	0	4.2	6	.07
10	0	0	0	0	0	0	3.5	7	.07
11	0	0	0	0	0	0	2.8	7	.05
12	0	0	0	0	0	0	2.5	5	.03
13	0	0	0	46	2	.25	2.3	4	.02
14	0	0	0	126	19	5.2	2.2	4	.02
15	0	0	0	64	12	2.1	2.4	4	.03
16	0	0	0	72	32	5.4	20	4	.22
17	0	0	0	24	15	.97	220	10	5.9
18	0	0	0	12	10	.32	120	41	13
19	0	0	0	9.4	12	.30	66	33	5.9
20	0	0	0	7.3	15	.30	35	22	2.1
21	0	0	0	5.0	14	.19	19	15	.77
22	0	0	0	4.2	12	.14	32	12	1.0
23	0	0	0	3.2	12	.10	23	10	.62
24	0	0	0	2.4	11	.07	26	8	.56
25	0	0	0	2.4	11	.07	22	8	.48
26	0	0	0	2.2	11	.07	18	8	.39
27	0	0	0	2.2	10	.06	14	8	.30
28	0	0	0	2.2	9	.05	14	8	.30
29	0	0	0	2.2	8	.05	12	8	.26
30	0	0	0	2.0	8	.04	8.6	8	.19
31	0	0	0	--	--	--	7.3	9	.18
TOTAL	.11	--	0	384.7	--	15.68	711.5	--	33.22

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	6.3	9	.15	50	36	4.9	90	20	4.9
2	5.4	9	.13	41	25	2.8	57	19	2.9
3	5.4	9	.13	37	15	1.5	69	19	3.5
4	5.0	9	.12	256	21	18	58	18	2.8
5	5.0	9	.12	274	102	81	49	12	1.6
6	4.6	9	.11	171	70	32	96	9	2.3
7	4.2	8	.09	339	79	72	58	13	2.0
8	9.0	8	.19	135	54	20	58	9	1.4
9	321	16	14	124	30	10	47	9	1.1
10	286	92	79	212	47	27	45	9	1.1
11	265	50	36	165	63	28	44	9	1.1
12	426	106	121	119	47	15	34	9	.83
13	173	52	24	87	42	9.9	31	8	.67
14	74	47	4.4	99	34	9.1	28	7	.53
15	83	42	9.4	72	31	6.0	26	6	.42
16	470	218	288	57	26	4.0	24	6	.39
17	472	296	377	47	21	2.7	22	6	.36
18	482	300	390	40	15	1.6	20	6	.32
19	435	266	312	33	14	1.2	38	6	.62
20	119	158	51	29	13	1.0	95	9	2.3
21	81	87	19	26	12	.84	95	7	1.8
22	57	83	13	22	12	.71	66	7	1.2
23	46	78	9.7	20	11	.59	52	7	.98
24	40	56	6.0	272	13	9.9	41	8	.89
25	40	49	5.3	364	50	49	36	8	.78
26	32	43	3.7	205	54	30	31	8	.67
27	26	43	3.0	186	33	17	26	8	.56
28	22	44	2.6	115	22	6.8	22	9	.53
29	85	44	10	--	--	--	20	8	.43
30	98	59	16	--	--	--	20	11	.59
31	65	49	8.6	--	--	--	20	13	.70
TOTAL	4242.9	--	1808.74	3597	--	462.54	1418	--	40.27



11449010 HIGHLAND CREEK BELOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	18	12	.58	4.6	22	.27			
2	14	11	.42	3.8	23	.24			
3	12	10	.32	3.5	23	.22			
4	12	9	.29	3.5	23	.22			
5	12	8	.26	3.5	23	.22			
6	10	6	.16	3.2	22	.19			
7	8.6	6	.14	3.0	21	.17			
8	8.6	6	.14	1.1	20	.06			
9	8.6	6	.14	0	0	0			
10	8.6	6	.14	0	0	0			
11	8.6	6	.14	0	0	0			
12	9.4	6	.15	0	0	0			
13	9.4	7	.18	0	0	0			
14	10	7	.19	0	0	0			
15	8.6	8	.19	0	0	0			
16	8.6	8	.19	0	0	0			
17	8.6	9	.21	0	0	0			
18	8.6	9	.21	0	0	0			
19	8.6	9	.21	0	0	0			
20	8.6	9	.21	0	0	0			
21	8.6	9	.21	0	0	0			
22	8.6	9	.21	0	0	0			
23	7.9	11	.23	0	0	0			
24	8.6	9	.21	0	0	0			
25	8.6	9	.21	0	0	0			
26	7.9	11	.23	0	0	0			
27	6.8	13	.24	0	0	0			
28	6.3	16	.27	0	0	0			
29	5.8	18	.28	0	0	0			
30	5.4	20	.29	0	0	0			
31	--	--	--	0	0	0			
TOTAL	275.9	--	6.85	26.2	--	1.59	0	--	0

DAY	JULY			AUGUST			SEPTEMBER		
	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							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							0	0	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							.01	7	0
17							.01	7	0
18							.01	7	0
19							.03	8	0
20							.03	8	0
21							.03	8	0
22							.05	9	0
23							.05	9	0
24							.05	9	0
25							.05	10	0
26							.05	10	0
27							.05	10	0
28							.05	10	0
29							.05	10	0
30							.05	10	0
31							--	--	--
TOTAL	0	--	0	0	--	0	.57	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

10660.88

2368.89

## SACRAMENTO RIVER BASIN

11449010 HIGHLAND CREEK BELOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM
NOV.												
17...	1315	10.0	21	10	.57	--	--	--	--	--	97	100
17...	1345	10.0	20	13	.70	--	--	--	--	--	99	100
JAN.												
12...	1200	7.0	455	114	140	63	81	90	96	99	100	--
FEB.												
04...	1100	8.0	254	15	10	--	--	--	--	--	99	100
07...	1230	8.5	361	63	61	--	--	--	--	--	99	100
25...	0930	9.0	392	54	57	--	--	--	--	--	98	100

## SACRAMENTO RIVER BASIN

425

11453500 PUTAH CREEK NEAR GUENOC, CALIF.

LOCATION.--Lat 38°46'44", long 122°30'59", in Guenoc Grant, Lake County, at gaging station on right bank, just upstream from Coyote Valley damsite, 2.8 miles upstream from Soda Creek, and 3.2 miles downstream from highway bridge at Guenoc.

DRAINAGE AREA.--113 sq mi.

PERIOD OF RECORD.--Water temperatures: March 1960 to September 1973 (discontinued).

Sediment records: Water years 1962-64 (partial-record station), December 1964 to March 1965, water years 1965-73 (partial-record station; discontinued).

EXTREMES.--1972-73:

Water temperatures: Maximum, 29.5°C July 28; minimum, 3.0°C Jan. 9.

Period of record:

Water temperatures: Maximum, 30.5°C July 14, 1972; minimum (1960-65, 1966-73), 3.0°C Jan. 9, 1973.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	19.0	14.5	13.0	11.5	10.0	10.0	7.0	10.0	8.5	12.0	10.5
2	23.0	19.5	16.0	14.0	11.0	10.5	10.0	8.0	10.0	8.5	13.0	9.0
3	23.5	20.0	15.5	14.5	11.0	10.0	9.0	7.0	9.5	9.0	10.5	9.5
4	21.5	20.0	16.5	14.5	10.0	9.0	9.0	6.5	9.5	9.0	11.0	8.5
5	21.5	19.0	15.5	14.0	9.5	7.0	8.5	6.5	10.5	9.5	11.5	8.5
6	20.5	19.0	14.0	12.0	9.0	8.0	8.5	6.5	10.5	9.5	11.5	9.5
7	20.0	18.5	14.0	13.0	8.5	7.0	8.0	6.0	10.5	9.5	10.5	8.5
8	19.5	18.0	13.0	10.5	7.0	6.0	8.0	4.0	11.0	10.5	13.5	9.5
9	19.5	18.0	13.0	11.5	6.5	5.0	6.0	3.0	11.0	10.0	13.5	9.5
10	18.0	18.0	12.0	11.5	6.5	5.0	7.0	6.0	10.0	9.5	12.0	10.0
11	18.0	17.0	12.0	10.0	6.5	5.0	9.0	6.5	11.5	10.0	13.0	9.0
12	18.5	17.0	13.0	10.0	6.5	5.5	10.0	8.0	10.0	9.5	11.5	8.5
13	18.5	18.0	12.0	10.0	7.0	5.0	11.0	10.0	10.0	9.5	13.0	8.5
14	18.0	16.5	11.0	10.0	7.0	5.0	11.0	10.0	11.0	10.0	12.0	8.5
15	18.5	16.5	11.0	10.5	8.0	6.5	11.0	10.5	11.5	8.5	13.5	9.0
16	18.0	16.5	11.5	10.5	8.0	7.0	11.0	10.0	11.5	9.0	12.0	10.0
17	18.5	17.0	12.0	10.0	8.0	6.0	10.5	10.0	13.0	9.5	11.0	9.5
18	19.5	16.5	11.5	11.0	9.5	8.0	10.5	10.0	11.5	9.0	13.0	8.5
19	19.5	16.5	12.0	10.5	10.5	9.5	10.0	9.0	11.5	8.5	11.5	9.5
20	19.0	16.0	11.5	10.0	11.5	10.0	10.0	8.5	12.0	9.0	10.0	8.5
21	19.0	16.0	11.5	10.5	11.0	10.5	10.5	9.0	11.5	9.0	10.0	8.5
22	18.5	16.5	12.0	10.5	11.0	10.5	9.5	8.0	11.5	9.5	12.0	7.0
23	19.5	16.5	11.5	9.5	10.5	9.0	9.0	7.0	11.0	9.5	13.5	9.0
24	18.0	15.5	11.5	9.5	10.5	9.0	9.0	8.0	11.0	10.0	13.5	9.5
25	17.0	15.0	12.0	9.5	10.5	8.5	10.0	9.0	11.5	10.0	13.5	10.0
26	16.5	14.5	13.0	10.0	10.0	8.0	9.5	7.0	11.0	10.5	15.0	10.0
27	16.0	14.5	13.0	10.5	10.0	9.0	9.0	7.0	11.0	10.5	15.0	11.0
28	15.5	14.0	12.0	10.0	10.0	8.0	9.5	7.0	13.5	10.5	14.0	9.5
29	14.5	13.0	12.0	10.0	9.5	8.0	9.0	8.5	---	---	13.0	9.5
30	13.0	10.5	12.0	9.5	10.0	8.0	10.0	9.0	---	---	14.0	11.0
31	14.0	11.5	---	---	9.5	8.0	11.0	9.0	---	---	14.0	10.0
MONTH	23.5	10.5	16.5	9.5	11.5	5.0	11.0	3.0	13.5	8.5	15.0	7.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	10.0	21.5	15.0	26.5	21.0	26.5	20.5	28.5	22.0	26.0	21.0
2	14.5	9.5	21.5	15.0	26.5	20.5	27.0	21.0	28.5	22.0	25.0	20.5
3	15.0	10.0	22.0	15.5	27.0	21.0	27.0	21.0	28.0	22.0	25.0	20.5
4	16.5	11.0	20.0	15.0	26.5	21.0	28.5	22.0	27.0	22.0	26.0	21.0
5	17.0	12.0	21.5	14.0	27.0	21.0	28.5	22.0	27.0	22.0	25.0	20.5
6	18.5	13.0	22.0	15.0	27.0	21.0	28.0	21.5	27.0	22.0	25.0	20.0
7	18.0	13.5	21.5	15.0	28.0	21.5	27.0	21.0	27.0	22.0	25.5	21.0
8	18.0	12.0	23.0	15.0	29.0	23.0	27.0	21.0	28.0	22.0	25.5	20.5
9	16.0	13.0	23.5	15.5	29.0	23.0	27.0	21.5	28.5	23.0	25.5	20.5
10	19.5	13.5	24.0	16.0	27.0	22.0	28.0	21.5	28.5	23.0	25.0	21.0
11	19.5	14.0	24.5	16.5	28.0	22.0	28.0	21.5	29.0	23.5	25.0	21.0
12	18.5	14.0	24.5	17.0	28.0	22.0	27.0	21.5	28.5	23.5	27.0	21.5
13	16.0	13.5	24.5	18.0	25.5	22.0	28.0	22.0	29.0	23.5	25.0	21.0
14	18.5	12.0	25.5	19.0	28.0	19.5	28.0	22.0	29.0	24.0	24.5	20.0
15	16.5	14.0	25.5	19.0	26.0	20.0	28.0	22.0	28.5	23.5	24.5	20.0
16	16.5	13.0	25.5	19.0	26.0	20.5	28.0	22.0	27.0	23.0	24.5	20.5
17	18.0	13.0	26.5	20.0	25.0	19.0	28.0	23.0	28.0	23.0	24.0	20.0
18	16.5	11.5	26.5	20.5	25.5	19.5	28.0	21.5	28.0	22.0	24.5	20.0
19	17.0	11.5	25.5	20.0	27.0	21.0	28.0	21.5	28.0	23.0	23.0	20.0
20	17.0	11.5	25.0	19.0	28.5	21.5	27.0	21.0	28.0	23.0	23.0	20.0
21	18.5	11.5	25.0	19.5	26.5	22.0	27.0	21.5	27.0	22.0	23.0	19.5
22	19.5	13.0	25.0	19.5	26.0	22.0	27.0	21.5	27.0	22.0	20.5	19.5
23	20.5	14.0	25.0	19.5	23.0	21.0	26.5	21.0	26.5	21.0	22.0	18.5
24	20.5	14.5	22.0	20.5	26.0	20.0	27.0	21.0	26.5	21.5	22.0	19.5
25	22.0	14.5	24.5	19.0	27.0	21.5	28.0	22.0	25.0	22.0	23.0	18.5
26	22.0	15.0	24.5	18.0	29.0	23.0	28.5	23.0	25.5	20.5	23.5	19.0
27	21.5	15.5	25.5	18.5	28.0	24.0	29.0	23.5	25.5	20.5	23.0	19.0
28	21.5	15.5	26.5	20.0	29.0	23.0	29.5	23.5	26.0	21.0	23.0	19.0
29	21.5	15.5	26.5	20.0	28.5	23.0	29.0	24.0	26.0	21.5	23.0	19.0
30	---	---	27.0	21.5	27.0	21.0	28.5	23.0	25.5	21.0	22.0	19.0
31	---	---	26.5	20.5	---	---	28.5	23.5	26.0	21.5	---	---
MONTH	22.0	9.5	27.0	14.0	29.0	19.0	29.5	20.5	29.0	20.5	27.0	18.5

## SACRAMENTO RIVER BASIN

11453500 PUTAH CREEK NEAR GUENOC, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DIS-CHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DIS-CHARGE (T/DAY)
OCT. 02...	1130	20.0	56	2	.00
NOV. 06...	1210	12.5	3.7	1	.01
DEC. 05...	1500	9.0	50	1	.13
JAN. 12...	1605	9.0	2990	238	1920
22...	1345	8.0	612	17	28
FEB. 01...	1500	10.0	410	5	5.5
MAR. 13...	1140	9.0	326	3	2.6
APR. 10...	1425	18.5	122	12	4.0
MAY 17...	1045	20.0	28	6	.45
JULY 09...	0835	21.5	3.9	20	.21
AUG. 14...	1150	25.0	1.5	5	.02

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS- SED. FALL DIAM. % FINE R THAN .002 MM	SUS- SED. FALL DIAM. % FINE R THAN .004 MM
JAN. 12...	1605	9.0	2990	238	1920	25	35
		SUS. SED. FALL DIAM. % FINE R THAN .008 MM	SUS. SED. FALL DIAM. % FINE R THAN .016 MM	SUS. SED. FALL DIAM. % FINE R THAN .031 MM	SUS. SED. FALL DIAM. % FINE R THAN .062 MM	SUS. SED. FALL DIAM. % FINE R THAN .125 MM	SUS. SED. FALL DIAM. % FINE R THAN .250 MM
JAN. 12...	44	53	61	67	77	91	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	RED MAT. SIEVE	RED MAT. SIEVE	RED MAT. SIEVE	RED MAT. SIEVE
					DIAM. % FINER THAN .062 MM	DIAM. % FINER THAN .125 MM	DIAM. % FINER THAN .250 MM	DIAM. % FINER THAN .500 MM
OCT.								
02...	1135	20.0	1	.56	--	1	2	8
02...	1140	20.0	1	.56	--	--	1	3
02...	1145	20.0	1	.56	--	--	--	1
02...	1150	20.0	1	.56	--	--	1	2
02...	1155	20.0	1	.56	8	22	62	93
02...	1200	20.0	1	.56	6	25	78	98
					RED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	RED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	RED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	RED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
OCT.								
02...	13	18	26	38	58	79	100	
02...	8	24	49	77	93	100	--	
02...	4	16	34	54	66	87	100	
02...	3	7	13	22	36	72	100	
02...	98	100	--	--	--	--	--	
02...	100	--	--	--	--	--	--	

## SACRAMENTO RIVER BASIN

427

11453550 HUNTING CREEK NEAR KNOXVILLE, CALIF.

LOCATION.--Lat 38°46'18", long 122°24'26", in NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec.28, T.11 N., R.5 W., Lake County, at gaging station 2,400 ft upstream from mouth, 5.3 miles southwest of Knoxville, and 11.2 miles east of Middletown.

DRAINAGE AREA.--37.8 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973 (discontinued).

Water temperatures: November 1972 to September 1973.

Sediment records: October 1970 to September 1973.

EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 680 mg/l Jan. 16; minimum daily, no flow for several days.

Sediment discharge: Maximum daily, 3,050 tons Jan. 16; minimum daily, 0 tons on several days.

Period of record:

Sediment concentrations: Maximum daily, 680 mg/l Jan. 16, 1973; minimum daily, no flow for many days in 1972.

Sediment discharge: Maximum daily, 3,050 tons Jan. 16, 1973; minimum daily, 0 tons on many days each year.

REMARKS.--No flow Oct. 1-10.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

				INSTAN- TANEOUS DIS- CHARGE (CFS)	ALKA- LITY AS CACO3 (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION			
DATE		TIME											
NOV. 17...		1250		29	247	450	8.4	9.5	--	--			
DEC. 05...		1035		4.6	--	770	--	4.0	--	--			
18...		1230		48	--	400	--	7.5	--	--			
JAN. 10...		1530		141	--	295	--	5.5	--	--			
22...		1700		82	--	520	--	9.0	--	--			
FEB. 01...		1140		62	--	400	--	6.0	--	--			
26...		1425		730	152	280	7.6	11.0	10.5	95			
APR. 10...		1200		31	--	760	--	17.0	--	--			
MAY 17...		1300		12	--	810	--	27.0	--	--			
JULY 09...		0545		1.7	--	1010	--	22.0	--	--			
AUG. 30...		1530		.91	--	710	--	27.5	--	--			
DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	
NOV. 17...	1250	29	28	50	--	0	16	54	14	.8	314	0	
FEB. 26...	1425	730	26	50	10	--	10	33	4.7	.7	199	0	
DATE	TIME	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
NOV. 17...	16	13	.2	--	.52	--	.10	.21	.18	.31	.28	.81	
FEB. 26...	9.1	3.5	.2	.05	.04	.04	.07	.78	.44	.82	.51	.87	
DATE	TIME	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CARBON DIOXIDE (CO2) (MG/L)
NOV. 17...	.05	.04	299	.41	23.4	260	5	10	.4	9.5	5	2.0	
FEB. 26...	.22	.01	186	.25	367	160	0	6	.2	11.0	100	8.0	



## SACRAMENTO RIVER BASIN

429

11453550 HUNTING CREEK NEAR KNOXVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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	0	0	0	.57	5	.01	3.9	2	.02
2	0	0	0	.57	5	.01	3.7	3	.03
3	0	0	0	.63	4	.01	4.4	2	.02
4	0	0	0	.78	4	.01	5.5	2	.03
5	0	0	0	.86	3	.01	4.7	1	.01
6	0	0	0	.86	6	.01	9.3	20	.56
7	0	0	0	1.5	5	.02	7.6	15	.31
8	0	0	0	2.4	4	.03	6.1	12	.20
9	0	0	0	1.6	1	0	4.2	10	.11
10	0	0	0	9.7	5	.13	4.2	8	.09
11	.70	8	.02	63	50	12	3.9	7	.07
12	1.5	17	.07	11	15	.45	3.7	6	.06
13	.94	7	.02	178	182	335	3.9	5	.05
14	1.0	4	.01	504	604	1530	3.9	5	.05
15	6.1	8	.13	208	251	238	4.2	5	.06
16	7.0	13	.25	108	65	19	6.7	10	.18
17	3.0	9	.07	31	14	1.2	163	138	85
18	1.9	5	.03	22	10	.59	60	23	4.1
19	1.3	5	.02	22	5	.30	67	27	5.7
20	1.0	4	.01	15	3	.12	31	14	1.2
21	.86	4	.01	12	1	.03	21	12	.68
22	.86	5	.01	10	2	.05	27	15	1.1
23	.86	6	.01	8.5	3	.07	21	10	.57
24	.70	6	.01	7.5	3	.06	17	9	.41
25	.63	7	.01	6.4	3	.05	13	8	.28
26	.57	7	.01	5.6	3	.05	11	7	.21
27	.57	5	.01	5.0	4	.05	11	6	.18
28	.57	3	0	4.6	2	.02	11	6	.18
29	.57	5	.01	4.3	3	.03	9.7	5	.13
30	.57	4	.01	4.1	2	.02	8.6	5	.12
31	.57	4	.01	--	--	--	8.3	5	.11
TOTAL	31.77	--	.73	1249.47	--	2137.33	559.5	--	101.82

DAY	JANUARY			FEBRUARY			MARCH		
	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	7.6	5	.10	62	5	.84	135	25	9.1
2	7.0	5	.09	55	5	.74	112	16	4.8
3	7.0	5	.09	71	19	5.1	148	21	9.3
4	6.7	5	.09	143	52	26	130	12	4.2
5	6.1	5	.08	92	24	6.8	104	10	2.8
6	6.1	5	.08	353	204	584	158	79	46
7	5.8	5	.08	435	390	645	114	9	2.8
8	9.7	10	.26	160	100	43	104	12	3.4
9	636	401	1210	235	158	260	89	16	3.8
10	208	71	45	460	221	307	83	17	3.8
11	624	362	742	259	45	31	78	13	2.7
12	825	320	881	247	47	52	70	10	1.9
13	193	70	36	235	51	35	66	6	1.1
14	86	30	7.0	202	35	20	60	10	1.6
15	78	17	5.0	141	20	7.6	58	13	2.0
16	1220	680	3050	118	18	5.7	56	18	2.7
17	369	158	207	106	17	4.9	55	18	2.7
18	741	467	1440	94	16	4.1	53	10	1.4
19	184	58	29	87	15	3.5	62	21	6.4
20	122	32	11	80	14	3.0	137	79	40
21	143	31	14	72	13	2.5	139	46	22
22	89	8	1.9	67	12	2.2	87	16	3.8
23	71	8	1.5	63	11	1.9	65	9	1.6
24	65	9	1.6	357	199	360	58	13	2.0
25	62	11	1.8	160	50	22	56	11	1.7
26	54	11	1.6	273	149	186	52	13	1.8
27	49	9	1.2	337	179	251	50	14	1.9
28	45	7	.85	196	47	27	47	11	1.4
29	207	194	310	--	--	--	45	10	1.2
30	175	111	65	--	--	--	46	10	1.2
31	78	20	4.2	--	--	--	48	10	1.3
TOTAL	6380.0	--	8067.52	5160	--	2897.88	2565	--	192.4

## SACRAMENTO RIVER BASIN

11453550 HUNTING CREEK NEAR KNOXVILLE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	43	10	1.2	14	13	.49	8.3	15	.34
2	40	10	1.1	14	13	.49	8.3	15	.34
3	37	10	1.0	14	13	.49	7.6	17	.35
4	36	10	.97	14	13	.49	7.0	19	.36
5	35	10	.95	14	10	.38	6.4	15	.26
6	34	10	.92	14	6	.23	6.4	10	.17
7	33	10	.89	14	6	.23	5.8	5	.08
8	31	10	.84	13	6	.21	5.5	7	.10
9	31	10	.84	13	8	.28	4.2	13	.15
10	29	10	.78	12	9	.29	4.2	15	.17
11	28	11	.83	12	9	.29	4.4	17	.20
12	27	12	.87	11	10	.30	4.4	14	.17
13	29	15	1.2	11	10	.30	4.4	12	.14
14	29	13	1.0	11	10	.30	4.4	10	.12
15	26	10	.70	11	6	.18	4.7	8	.10
16	26	6	.42	11	6	.18	4.9	6	.08
17	24	7	.45	11	8	.24	4.9	5	.07
18	22	8	.48	11	9	.27	4.9	5	.07
19	20	7	.38	11	10	.30	4.4	5	.06
20	20	9	.49	11	10	.30	3.9	5	.05
21	20	8	.43	11	12	.36	3.7	4	.04
22	18	6	.29	12	10	.32	3.4	4	.04
23	18	4	.19	12	6	.19	3.4	4	.04
24	17	7	.32	12	6	.19	3.4	4	.04
25	16	8	.35	12	7	.23	3.4	3	.03
26	16	6	.26	12	7	.23	3.4	3	.03
27	16	5	.22	11	12	.36	3.0	3	.02
28	15	3	.12	10	12	.32	2.8	3	.02
29	16	4	.17	9.0	15	.26	2.6	3	.02
30	15	8	.32	8.3	15	.34	2.6	3	.02
31	--	--	--	7.9	19	.41	--	--	--
TOTAL	76.7	--	18.98	364.2	--	9.55	140.7	--	3.68

DAY	JULY			AUGUST			SEPTEMBER		
	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	2.6	3	.02	1.0	8	.02	.78	6	.01
2	2.6	3	.02	.94	8	.02	.86	6	.01
3	2.4	3	.02	1.0	8	.02	.86	6	.01
4	2.4	2	.01	.94	8	.02	.94	6	.02
5	1.9	2	.01	.86	8	.02	.94	6	.02
6	2.1	2	.01	.94	8	.02	1.0	6	.02
7	2.1	1	.01	.94	8	.02	1.0	6	.02
8	2.1	1	.01	.94	8	.02	1.0	6	.02
9	1.8	1	0	.94	7	.02	.94	5	.01
10	1.8	1	0	.94	7	.02	.94	5	.01
11	1.5	3	.01	.94	7	.02	.94	5	.01
12	1.5	3	.01	1.0	7	.02	.94	5	.01
13	1.5	3	.01	1.0	7	.02	.94	5	.01
14	1.5	5	.02	1.0	7	.02	.86	5	.01
15	1.3	5	.02	.94	7	.02	.86	5	.01
16	1.3	5	.02	.94	7	.02	.86	5	.01
17	1.3	7	.02	.86	7	.02	.86	5	.01
18	1.5	7	.03	.86	7	.02	.86	5	.01
19	1.5	7	.03	.86	7	.02	.78	5	.01
20	1.5	8	.03	.86	7	.02	.78	5	.01
21	1.5	8	.03	.86	7	.02	.86	5	.01
22	1.5	8	.03	.94	7	.02	.86	5	.01
23	1.5	8	.03	.94	7	.02	.86	5	.01
24	1.5	8	.03	.94	7	.02	.86	5	.01
25	1.5	8	.03	.94	7	.02	.78	5	.01
26	1.1	8	.02	.94	7	.02	.86	5	.01
27	1.1	8	.02	.94	7	.02	.86	5	.01
28	1.1	8	.02	.94	7	.02	.86	5	.01
29	1.2	8	.03	.94	7	.02	.86	5	.01
30	1.2	8	.03	.94	7	.02	.78	5	.01
31	1.2	8	.03	.78	7	.01	--	--	--
TOTAL	50.6	--	.61	28.80	--	.61	26.38	--	.35

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)  
 TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

17323.42  
 13431.46



PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.							
11...	--	--	100	--	--	--	--
11...	--	--	100	--	--	--	--
13...	--	--	94	97	100	--	--
13...	72	77	81	87	95	99	100
17...	--	--	97	100	--	--	--
JAN.							
10...	--	--	98	100	--	--	--

A Automatic sample at fixed depth.

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	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 16.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
02...	42	44	47	54	58	100	--
02...	23	26	31	38	73	100	--
02...	--	--	--	--	--	--	100
02...	26	39	52	70	85	100	--
02...	10	20	38	61	88	100	--
02...	63	79	91	100	--	--	--
02...	39	41	42	48	48	100	--
02...	97	99	100	--	--	--	--

## SACRAMENTO RIVER BASIN

11453570 ADAMS CREEK NEAR KNOXVILLE, CALIF.

LOCATION.--Lat 38°42'17", long 122°17'44", in NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec.21, T.10 N., R.4 W., Napa County, at gaging station 20 ft downstream from road ford, 0.2 mile upstream from mouth, 8.8 miles southeast of Knoxville, and 18 miles south-east of Middletown.

DRAINAGE AREA.--7.42 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1970 (partial-record station), October 1970 to September 1973 (discontinued).  
Sediment records: Water years 1971-73 (partial-record station).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CAR- BONATE (C03) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)
NOV. 16...	1050	6.1	34	60	30	22	57	13	1.0	321	0	15
DEC. 27...	1400	.81	--	--	--	--	--	--	--	--	--	--
JAN. 12...	1150	48	21	100	650	14	19	11	1.3	144	0	14

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
NOV. 16...	16	.2	--	.25	.13	.13	.14	.15	.27	.28	.52	.09
DEC. 27...	--	--	--	.08	.09	.09	.18	.25	.27	.34	.35	.05
JAN. 12...	8.6	.2	.13	.18	.15	.00	.95	.35	1.1	.50	1.3	.74

DATE	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS PER AC-FT (TONS PER DAY)	DIS- SOLVED SOLIDS PER DAY (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CARBON DIOXIDE (C02) (MG/L)
NOV. 16...	.03	316	.43	5.20	290	26	9	.3	11.0	8	2.6
DEC. 27...	.04	--	--	--	--	--	--	--	9.0	2	--
JAN. 12...	.05	162	.22	21.0	110	0	17	.5	10.0	800	2.9

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	ALKA- LINIT- AS CAC03 (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION
NOV. 16...	1050	6.1	256	490	8.3	11.0	10.0	91
DEC. 06...	1050	1.2	--	800	--	5.5	--	--
DEC. 27...	1400	.81	--	830	--	9.0	--	--
JAN. 12...	1140	48	143	270	7.8	10.0	10.7	95
JAN. 12...	1150	48	118	261	7.9	10.0	--	--
FEB. 26...	1230	87	--	395	--	11.0	--	--
APR. 23...	1215	4.5	--	800	--	22.0	--	--
JULY 03...	1200	.43	--	830	--	27.0	--	--
AUG. 29...	1205	.02	--	870	--	24.5	--	--

## SACRAMENTO RIVER BASIN

433

11453570 ADAMS CREEK NEAR KNOXVILLE, CALIF.--Continued

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- SOLVED BORON (B) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV. 16...	1050	60	40	.1	50
JAN. 12...	1150	420	100	.8	190

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIMENT DIS- CHARGE (MG/L)	SUS- PENDED SEDIMENT DIS- CHARGE (T/DAY)
NOV. 16...	1050	11.0	6.1	10	.16
DEC. 06...	1040	5.5	1.4	13	.05
DEC. 27...	1345	9.5	.80	1	.00
JAN. 12...	1140	10.0	48	170	22
FEB. 26...	1230	11.0	87	908	213
APR. 23...	1215	22.0	4.5	9	.11
JULY 03...	1245	27.0	.41	7	.01
AUG. 29...	1205	24.5	.02	12	.00

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIMENT DIS- CHARGE (MG/L)	SUS- PENDED SEDIMENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
JAN. 12...	1140	10.0	48	170	22	--	--	--	--
FEB. 26...	1230	11.0	87	908	213	43	50	56	62

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
JAN. 12...	--	--	90	--	93	--	95	--	100
FEB. 26...	69	75	--	85	--	94	--	100	--

## SACRAMENTO RIVER BASIN

11453570 ADAMS CREEK NEAR KNOXVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMRER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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.								
10...	1120	--	1	.00	--	1	2	3
10...	1125	--	1	.00	1	2	4	9
10...	1130	--	1	.00	1	2	6	14
10...	1135	--	1	.00	--	1	2	3
10...	1140	--	1	.00	7	15	25	38
FEB.								
26...	1230	11.0	5	87	2	5	11	21

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.							
10...	5	13	30	54	79	100	--
10...	22	39	53	70	91	100	--
10...	24	35	47	65	89	100	--
10...	4	5	6	8	11	22	100
10...	59	82	98	98	100	--	--
FEB.							
26...	30	43	57	73	85	91	100

## SACRAMENTO RIVER BASIN

435

11453580 NEVADA CREEK NEAR KNOXVILLE, CALIF.

LOCATION.--Lat 38°42'42", long 122°17'31", in NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 15, T.10 N., R.4 W., Napa County, at gaging station 150 ft downstream from road ford, 0.6 mile upstream from Adams Creek, 8.4 miles southeast of Knoxville, and 18 miles southeast of Middletown.

DRAINAGE AREA.--7.06 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1970 (partial-record station), October 1970 to September 1973 (discontinued).  
Sediment records: Water years 1971-73 (partial-record station).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	ALKA- LINIT- Y AS CACO <sub>3</sub> (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION
NOV. 16...	1325	6.0	168	420	8.2	12.5	9.8	92
DEC. 06...	1225	.09	--	1020	--	7.0	--	--
27...	1125	.68	--	870	--	9.0	--	--
JAN. 12...	1300	76	152	288	8.2	11.0	--	--
12...	1310	76	110	250	6.4	11.0	11.0	100
FEB. 26...	1400	109	--	270	--	11.0	--	--
APR. 23...	1020	2.6	--	840	--	17.0	--	--
JULY 03...	1030	.11	--	1160	--	18.5	--	--
AUG. 29...	1040	.01	--	1000	--	20.0	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)
NOV. 16...	1325	6.0	26	90	70	25	34	24	1.7	213	0	26
DEC. 27...	1240	.68	--	--	--	--	--	--	--	--	--	--
JAN. 12...	1300	76	28	200	160	9.0	30	6.3	1.0	185	0	6.8

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
NOV. 16...	29	.3	--	.37	.17	.17	.24	.18	.41	.35	.78	.15
DEC. 27...	--	--	--	.33	.04	.04	.18	.53	.22	.57	.55	.08
JAN. 12...	5.2	.2	.04	.09	.28	.00	.35	.21	.63	.49	.72	.32

DATE	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)
NOV. 16...	.04	272	.37	4.41	200	28	20	.7	12.5	20	2.2
DEC. 27...	.05	--	--	--	--	--	--	--	9.0	2	--
JAN. 12...	.06	179	.24	36.7	150	0	9	.2	11.0	200	1.9

## SACRAMENTO RIVER BASIN

11453580 NEVADA CREEK NEAR KNOXVILLE, CALIF.--Continued

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- SOLVED BORON (B) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV. 16...	1325	920	50	.1	50
JAN. 12...	1300	90	50	.5	110

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)
NOV. 16...	1315	12.5	6.0	28	.45
DEC. 06...	1155	7.0	.09	1	.00
27...	1125	9.0	.68	1	.00
JAN. 12...	1245	11.0	74	1100	220
FEB. 26...	1355	11.0	104	1570	441
APR. 23...	1020	17.0	2.6	15	.11
JULY 03...	0945	18.5	.11	8	.00
AUG. 29...	1040	20.0	.01	4	.00

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
NOV. 16...	1315	12.5	6.0	28	.45	--	--	--
JAN. 12...	1245	11.0	74	1100	220	34	43	54
FEB. 26...	1355	11.0	104	1570	441	42	52	61

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV. 16...	--	--	--	91	--	--	--	--
JAN. 12...	63	69	74	--	81	91	99	100
FEB. 26...	69	77	81	--	87	93	100	--

## SACRAMENTO RIVER BASIN

437

11453580 NEVADA CREEK NEAR KNOXVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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
OCT. 10...	1215	--	5	.00	6	11	24
FEB. 26...	1405	11.0	1	99	6	13	42
26...	1410	11.0	1	99	--	--	1
26...	1415	11.0	1	99	--	--	1
26...	1420	11.0	1	99	--	--	--
26...	1425	11.0	1	99	5	13	30

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
OCT. 10...	43	56	69	82	92	98	100
FEB. 26...	94	99	100	--	--	--	--
26...	12	39	70	84	90	94	100
26...	3	14	32	48	69	100	--
26...	--	2	15	32	57	86	100
26...	37	50	75	92	99	100	--

## SACRAMENTO RIVER BASIN

11454000 PUTAH CREEK NEAR WINTERS, CALIF.

LOCATION.--Lat 38°30'55", long 122°04'51", in NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec.28, T.8 N., R.2 W., Yolo County, at gaging station on left bank, 1 mile downstream from Cold Canyon, 1.3 miles downstream from Monticello Dam, and 6 miles west of Winters.

DRAINAGE AREA.--574 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1952 (partial-record station), October 1952 to September 1966, October 1972 to September 1973.

Water temperatures: November 1965 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Maximum, 16.5°C Apr. 11, 12, 17; minimum, 6.5°C Jan. 9.

Period of record:

Water temperatures: Maximum, 22.0°C May 21, 1967; minimum (1966-68, 1969-73), 6.5°C on several days in 1967, 1968, and 1973.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Nov. 9, 10, 16, 17. Clock stopped June 17-21; range in temperature, 11.5°C to 12.0°C.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)
OCT.											
12...	0915	67	16	26	10	176	0	144	6.0	--	--
NOV.											
15...	1020	12	18	14	14	118	0	97	15	--	--
DEC.											
21...	1000	70	18	28	11	188	0	154	9.6	--	--
JAN.											
23...	1450	27	42	6.1	34	219	0	180	30	--	--
FEB.											
09...	0930	72	37	24	33	199	0	163	20	--	--
MAR.											
09...	1015	1010	17	26	10	167	0	137	7.6	--	--
APR.											
16...	1430	420	18	24	10	167	0	137	6.6	--	--
MAY											
10...	1030	631	17	25	22	171	0	140	5.0	--	--
JUNE											
14...	1430	743	17	26	8.2	172	0	141	4.7	172	.23
JULY											
20...	1000	656	17	26	8.2	172	0	141	6.8	181	.25
AUG.											
06...	1300	593	15	27	10	170	0	139	5.9	156	.21
SEP.											
12...	0800	412	16	26	9.7	173	0	142	5.4	171	.23

DATE	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT.										
12...	--	150	6	.4	290	7.9	12.0	1	10.4	--
NOV.										
15...	--	106	10	.6	260	7.3	11.0	35	11.4	--
DEC.										
21...	--	161	7	.4	320	7.8	11.0	4	10.4	--
JAN.										
23...	--	130	0	1.3	500	7.6	8.0	--	10.7	--
FEB.										
09...	--	192	29	1.0	450	7.7	11.0	20	10.2	--
MAR.										
09...	--	150	13	.4	280	8.2	11.0	10	11.5	--
APR.										
16...	--	146	9	.4	290	8.4	17.0	2	11.8	--
MAY										
10...	--	145	6	.8	285	8.2	11.0	2	14.1	200
JUNE										
14...	345	148	9	.3	280	8.0	12.0	0	14.3	200
JULY										
20...	321	151	10	.3	290	8.0	12.0	1	11.2	--
AUG.										
06...	250	149	10	.4	270	8.1	12.0	3	11.3	--
SEP.										
12...	190	150	8	.3	255	8.1	12.0	4	10.9	200



## SACRAMENTO RIVER BASIN

439

11454000 PUTAH CREEK NEAR WINTERS, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	11.5	11.0	11.0	10.0	10.0	9.5	9.0	9.5	9.0	10.5	10.5
2	12.0	11.5	12.0	11.0	10.0	10.0	9.5	9.0	9.0	9.0	10.5	10.0
3	12.0	11.5	11.5	11.5	10.5	10.0	9.5	9.0	9.0	9.0	10.5	10.0
4	12.0	11.5	12.0	11.5	10.5	10.5	9.0	8.5	9.0	9.0	10.5	10.0
5	12.0	11.5	12.0	11.0	10.5	10.0	9.0	8.5	9.5	9.0	11.0	10.5
6	12.0	11.5	11.5	11.0	10.5	10.0	9.0	8.5	9.5	9.5	11.0	11.0
7	12.0	11.5	11.5	11.5	10.5	10.0	9.0	8.5	10.5	9.5	11.0	11.0
8	12.0	11.5	11.5	11.0	10.0	10.0	8.5	8.5	11.0	10.5	11.5	11.0
9	12.0	11.5	---	---	11.5	9.5	8.5	6.5	11.0	11.0	11.5	11.5
10	11.5	11.5	---	---	12.0	9.5	7.5	7.0	11.0	10.5	12.0	11.5
11	11.5	11.5	10.5	10.5	11.5	9.5	8.5	7.5	10.5	10.0	12.0	12.0
12	12.5	11.5	10.5	10.5	11.5	9.5	10.0	8.5	10.5	10.5	12.0	12.0
13	12.5	12.5	10.5	10.5	10.0	9.5	10.0	10.0	10.5	10.0	12.0	11.5
14	12.5	12.5	10.5	10.0	10.0	9.5	10.0	10.0	10.5	10.0	12.0	12.0
15	12.5	12.5	10.5	10.0	9.5	9.0	10.0	10.0	10.5	10.0	12.0	12.0
16	12.5	12.5	---	---	9.0	9.0	10.0	10.0	10.0	10.0	12.0	12.0
17	12.5	12.0	---	---	9.5	9.0	10.0	10.0	10.5	10.0	12.0	12.0
18	12.5	12.0	11.0	10.5	9.5	9.5	10.0	10.0	10.5	10.5	12.0	12.0
19	13.0	12.0	11.0	10.5	10.0	9.5	10.0	9.0	10.5	10.5	12.0	11.5
20	12.5	12.0	11.0	10.5	10.5	10.0	9.0	8.5	10.5	10.5	11.5	11.5
21	12.5	12.0	11.0	11.0	10.5	10.5	9.0	8.5	11.0	10.5	11.5	11.5
22	12.0	12.0	11.5	11.0	10.5	10.5	9.0	9.0	11.0	11.0	12.0	11.5
23	12.5	11.5	11.0	10.0	10.5	10.0	9.0	8.5	11.0	11.0	12.0	11.5
24	12.5	11.5	11.0	10.5	10.5	10.0	8.5	8.5	11.0	11.0	12.0	11.5
25	12.5	11.5	10.5	10.5	10.0	10.0	9.0	8.5	11.0	11.0	12.5	11.5
26	12.0	11.5	10.5	10.5	10.0	9.5	9.0	8.5	11.0	11.0	12.5	12.0
27	12.0	11.5	11.0	10.5	9.5	9.5	8.5	8.5	11.0	10.5	13.0	12.0
28	11.5	11.0	11.0	10.5	9.5	9.5	8.5	8.5	10.5	10.0	13.0	12.5
29	11.5	10.5	11.0	10.5	9.5	9.0	8.5	8.5	---	---	12.5	12.5
30	11.0	10.5	11.0	10.0	9.0	9.0	8.5	8.5	---	---	12.5	12.5
31	11.0	10.5	---	---	9.0	9.0	9.0	8.5	---	---	13.0	12.5
MONTH	13.0	10.5	12.0	10.0	12.0	9.0	10.0	6.5	11.0	9.0	13.0	10.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	12.5	13.0	12.0	12.0	12.0	12.0	11.5	12.5	12.0	12.0	11.5
2	12.5	12.5	12.5	12.0	12.0	11.5	12.0	11.5	12.5	12.0	12.0	11.5
3	12.5	12.0	12.5	11.5	12.0	11.5	12.0	11.5	12.0	12.0	12.0	11.5
4	13.0	12.0	12.5	11.5	11.5	11.5	12.0	11.5	12.5	12.0	12.5	11.5
5	13.5	13.0	12.0	11.5	11.5	11.5	12.0	11.5	12.5	12.0	12.5	11.5
6	14.5	13.0	12.0	11.0	11.5	11.5	12.0	11.5	12.5	12.0	12.5	12.0
7	14.5	14.5	12.0	11.0	11.5	11.5	12.0	12.0	12.5	12.0	12.5	11.5
8	14.5	14.0	12.0	11.5	12.0	11.5	12.0	12.0	12.5	12.0	12.5	11.5
9	14.0	14.0	12.0	11.5	12.0	11.5	12.0	11.5	12.5	12.0	12.0	11.5
10	15.5	14.0	12.0	11.5	12.0	11.5	12.0	11.5	12.5	12.0	12.5	11.5
11	16.5	15.5	12.0	11.5	12.0	11.5	12.0	11.5	13.0	12.0	12.0	11.5
12	16.5	16.0	12.0	11.5	11.5	11.0	12.0	12.0	13.0	12.5	12.0	11.5
13	16.0	16.0	12.0	11.5	11.5	11.5	12.0	12.0	13.0	12.5	12.0	11.5
14	16.0	15.5	12.0	11.5	12.0	11.5	12.5	12.0	13.0	12.0	12.0	11.0
15	16.0	16.0	11.5	11.5	12.5	11.5	12.0	11.5	13.0	12.5	12.0	11.0
16	16.0	15.5	11.5	11.5	12.0	11.5	12.5	12.0	13.0	12.5	12.0	11.0
17	16.5	15.5	11.5	11.5	---	---	12.5	12.0	12.5	12.5	12.0	11.0
18	16.0	15.5	12.0	11.5	---	---	12.5	12.0	13.0	12.5	12.0	11.5
19	16.0	15.5	12.0	11.5	---	---	12.5	12.0	13.5	12.5	11.5	11.0
20	16.0	15.0	12.0	11.5	---	---	12.5	12.0	13.5	12.5	11.5	11.0
21	15.5	14.5	12.0	11.5	---	---	12.5	12.0	13.5	12.5	11.5	11.0
22	15.0	14.5	12.0	11.5	12.0	11.5	12.5	12.0	12.5	12.0	11.5	11.0
23	15.0	15.0	12.0	11.5	12.0	12.0	12.5	12.0	12.0	11.5	12.5	11.5
24	15.5	15.0	12.0	11.5	12.5	12.0	12.5	12.0	12.0	11.5	12.5	11.5
25	15.0	14.5	12.0	11.5	12.5	12.0	12.5	12.0	12.0	12.0	12.0	11.5
26	15.0	14.5	12.0	11.5	12.5	12.0	12.5	12.0	12.5	12.0	12.0	11.5
27	14.5	13.5	12.0	11.5	12.0	11.5	12.5	12.0	12.5	12.0	12.0	11.5
28	14.0	13.0	12.0	11.5	12.0	11.5	12.5	12.0	12.5	12.0	12.0	11.5
29	13.5	13.0	12.0	11.5	12.0	11.5	12.5	12.0	12.0	12.0	12.0	11.5
30	13.0	12.5	12.0	11.5	12.5	12.0	12.5	12.0	12.0	11.5	12.0	11.5
31	---	---	12.0	11.5	---	---	12.5	12.0	12.0	11.5	---	---
MONTH	16.5	12.0	13.0	11.0	12.5	11.0	12.5	11.5	13.5	11.5	12.5	11.0

## NAPA RIVER BASIN

11456000 NAPA RIVER NEAR ST. HELENA, CALIF.

LOCATION.--Lat 38°29'52", long 122°25'37", in Carne Humana Grant, Napa County, temperature recorder at gaging station on right bank, 0.2 mile upstream from highway bridge, 1.3 miles northeast of Zinfandel, and 2.5 miles east of St. Helena.

DRAINAGE AREA.--81.4 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1966.

Water temperatures: October 1957 to September 1973.

Sediment records: December 1956 to June 1962.

EXTREMES.--1972-73:

Water temperatures: Maximum, 29.0°C June 20; minimum, 3.5°C Dec. 11.

Period of record:

Water temperatures: Maximum (1961-63, 1964-65, 1966-69, 1970-73), 33.5°C July 18, 1968; minimum (1961-63, 1965-73), 3.5°C Dec. 14, 15, 1967, Dec. 11, 1972.

REMARKS.--Recorder stopped July 30 to Aug. 29.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.5	13.5	12.0	10.0	9.5	10.0	7.5	12.5	10.0	13.0	11.0
2	17.0	16.0	14.5	13.5	10.0	9.5	9.0	7.5	12.5	10.5	12.5	9.5
3	17.0	16.5	15.5	14.5	10.5	10.0	8.5	7.0	12.0	11.0	11.0	10.0
4	16.5	16.5	16.0	15.0	10.0	9.0	8.0	6.5	12.0	11.0	12.0	9.5
5	17.5	16.0	15.0	13.5	9.0	7.0	7.5	5.5	12.5	10.5	12.0	9.0
6	17.5	16.5	13.5	12.0	9.0	7.0	7.0	5.0	12.5	12.0	12.0	9.5
7	17.0	16.0	13.5	12.5	7.5	6.5	7.0	5.0	13.5	11.5	12.0	9.0
8	17.0	16.5	13.0	11.0	6.5	5.5	7.5	4.0	12.5	12.0	13.0	10.5
9	17.0	16.5	12.5	11.0	5.5	4.0	8.0	5.0	13.0	12.0	13.5	10.5
10	17.0	16.5	13.0	12.0	5.5	4.0	9.5	8.0	13.0	12.0	13.5	11.0
11	17.0	16.5	13.0	11.0	5.0	3.5	10.0	9.0	12.0	11.5	13.0	9.5
12	17.0	16.5	12.0	10.0	5.5	4.5	11.0	10.0	12.0	11.5	13.5	9.5
13	17.0	16.5	12.0	11.5	6.0	4.5	12.0	11.0	12.0	11.0	13.5	10.0
14	16.5	16.0	12.5	11.5	6.0	4.0	12.0	11.0	12.0	11.0	14.0	9.5
15	16.5	16.0	12.5	12.0	6.5	5.5	12.0	11.0	11.5	10.0	15.0	9.5
16	16.0	15.5	13.0	11.5	7.5	6.5	12.5	11.5	12.5	10.5	14.0	10.0
17	16.5	15.5	12.5	11.0	8.5	7.0	12.0	11.5	12.5	11.0	13.0	10.5
18	17.0	15.5	12.0	11.0	10.0	8.5	12.0	11.0	13.0	10.0	14.0	9.0
19	16.5	16.0	12.5	11.0	11.0	10.0	12.0	10.5	12.5	10.0	11.5	10.5
20	17.0	15.5	11.5	10.0	12.0	11.0	12.0	10.0	13.5	10.0	12.0	9.5
21	16.5	16.0	10.5	10.0	12.0	11.5	12.5	11.5	13.5	10.5	11.5	9.5
22	16.5	16.0	11.5	9.5	12.0	11.0	12.5	10.5	14.0	11.0	14.0	8.5
23	17.5	16.0	11.0	9.5	11.5	10.0	13.0	10.5	14.0	12.0	15.0	10.0
24	16.5	16.0	11.5	9.5	11.5	10.0	12.0	11.0	13.0	12.0	15.0	10.0
25	16.5	15.0	10.5	9.0	12.0	9.5	13.0	11.5	13.0	11.5	14.5	11.0
26	15.5	14.5	10.5	10.0	10.5	8.5	12.0	10.0	12.5	11.5	16.0	11.0
27	15.0	14.5	11.5	9.5	10.5	9.0	12.0	9.5	12.5	11.5	16.5	12.0
28	15.0	14.0	11.0	9.5	9.5	8.0	12.5	9.5	13.0	11.0	15.5	10.5
29	14.0	13.0	11.5	9.5	9.5	7.0	11.5	10.5	---	---	14.5	10.5
30	13.0	11.5	10.5	9.0	9.5	7.5	12.0	10.5	---	---	13.5	11.5
31	13.0	11.5	---	---	9.0	7.5	12.5	11.0	---	---	16.0	11.0
MONTH	17.5	11.5	16.0	9.0	12.0	3.5	13.0	4.0	14.0	10.0	16.5	8.5

APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	11.0	21.0	15.5	24.0	18.0	24.5	20.5	---	---	18.5	16.0
2	16.0	11.0	20.0	15.0	24.5	18.5	24.0	21.0	---	---	18.5	16.0
3	17.0	11.5	21.0	15.5	25.0	19.0	24.5	20.5	---	---	18.5	16.0
4	18.5	12.0	20.0	15.5	25.5	19.0	25.5	21.0	---	---	18.5	16.5
5	18.5	13.0	20.5	14.5	26.0	19.5	25.0	22.0	---	---	18.5	17.0
6	19.5	14.0	21.0	15.5	27.0	19.5	24.0	20.5	---	---	18.0	16.0
7	19.0	13.5	21.5	16.0	28.0	20.5	23.5	20.5	---	---	19.0	17.0
8	19.0	13.0	22.0	15.5	28.5	21.0	24.5	20.0	---	---	19.0	17.5
9	17.5	13.5	22.5	16.0	28.0	21.5	25.0	21.0	---	---	19.5	18.5
10	20.0	14.5	23.5	17.0	24.5	20.5	24.0	21.5	---	---	19.0	18.0
11	20.5	14.5	23.5	17.5	24.5	19.0	23.5	20.5	---	---	19.0	18.0
12	19.5	14.5	23.5	17.5	25.5	18.5	22.5	20.0	---	---	19.0	17.0
13	16.5	14.5	24.0	18.0	22.5	20.0	23.0	20.0	---	---	18.5	17.0
14	18.5	12.5	23.0	18.5	23.0	18.0	22.5	20.0	---	---	18.0	17.0
15	18.5	14.0	23.5	17.5	24.0	18.0	22.0	20.0	---	---	18.5	17.0
16	16.5	14.0	24.5	18.0	24.0	19.0	22.0	19.5	---	---	18.0	17.0
17	18.5	14.0	25.5	19.0	24.0	18.5	21.5	19.5	---	---	17.5	16.0
18	18.0	12.0	25.0	19.0	25.5	18.5	21.5	19.0	---	---	18.0	16.5
19	18.0	12.5	24.5	19.0	27.5	20.0	21.0	19.0	---	---	18.5	18.0
20	18.0	13.0	23.0	17.5	29.0	20.5	21.0	18.5	---	---	19.0	18.5
21	19.5	13.5	23.5	18.0	28.5	21.5	21.0	18.0	---	---	18.5	17.5
22	19.5	14.0	23.0	17.5	24.0	21.0	22.0	18.5	---	---	18.0	17.5
23	20.5	14.5	23.5	17.5	22.0	20.5	21.0	18.5	---	---	18.0	17.5
24	21.0	15.0	20.0	18.5	25.5	19.5	22.0	18.5	---	---	18.5	18.0
25	21.5	15.5	22.5	17.5	26.5	21.0	22.5	19.0	---	---	18.5	17.5
26	22.0	16.0	22.5	16.5	27.0	22.5	23.0	20.0	---	---	18.5	17.5
27	21.5	16.5	24.0	17.0	26.0	23.5	22.5	20.0	---	---	18.5	17.5
28	20.0	16.0	26.0	18.5	26.0	22.5	22.0	19.5	---	---	18.5	17.0
29	20.0	15.5	25.5	20.0	25.0	21.5	21.5	19.0	---	---	18.5	17.0
30	20.5	14.5	24.5	20.0	24.0	20.5	---	---	19.0	17.5	18.0	17.0
31	---	---	23.0	19.0	---	---	---	---	18.5	17.0	---	---
MONTH	22.0	11.0	26.0	14.5	29.0	18.0	25.5	18.0	---	---	19.5	16.0

## SALMON CREEK BASIN

441

11460920 SALMON CREEK AT BODEGA, CALIF.

LOCATION.--Lat 38°20'54", long 122°58'45", in Estero Americano Grant, Sonoma County, temperature recorder at gaging station on left bank, 100 ft upstream from private road bridge, 0.3 mile upstream from small left-bank tributary, and 0.4 mile northwest of Bodega.

DRAINAGE AREA.--15.7 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1964 to September 1973.

Sediment records: Water years 1971-72 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 23.0°C June 8; minimum, freezing point on several days during winter period.

Period of record:

Water temperatures: Maximum, 23.5°C Apr. 26, 1965; minimum (1964-66, 1967-73), freezing point on many days during winter periods.

REMARKS.--No flow Oct. 1, 2, July 11-13, 27-31, Aug. 14-16, Aug. 19 to Sept. 16. Recorder malfunction Mar. 5, 13-16, 19, Apr. 5, 15, 16; recorder stopped Apr. 19-23, July 17-20, Aug. 17, 18.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	11.5	7.0	7.0	5.5	9.5	1.5	12.0	5.0	15.0	11.0
2	---	---	12.5	8.5	7.5	6.0	7.5	1.5	11.0	7.5	14.0	6.5
3	14.5	13.0	14.5	11.5	8.5	6.5	8.0	3.0	10.0	8.5	12.0	7.5
4	15.0	13.5	16.0	13.0	9.5	3.5	7.5	1.0	13.0	9.5	11.5	6.0
5	18.0	12.0	14.0	8.0	6.5	1.0	7.0	0.5	13.0	9.0	---	---
6	19.0	12.0	10.5	6.5	8.0	4.5	6.5	0.0	12.0	11.0	14.0	9.0
7	15.0	11.0	13.0	9.0	7.0	3.0	4.5	0.0	14.0	11.0	12.0	6.5
8	14.5	13.5	11.5	6.5	6.0	0.5	5.5	4.0	13.5	11.0	15.0	8.0
9	16.5	13.5	9.5	6.5	2.5	0.0	10.5	5.5	12.5	10.5	15.0	7.5
10	16.5	15.5	12.5	9.0	4.5	0.0	11.0	9.0	12.5	11.0	12.5	9.5
11	17.0	16.0	12.5	8.0	4.0	0.0	12.5	9.5	13.5	10.5	14.5	7.0
12	18.0	15.5	11.5	5.5	2.0	0.0	12.5	12.0	10.5	9.0	14.0	7.0
13	17.0	14.5	10.5	9.0	4.5	0.0	15.0	11.5	12.5	9.5	---	---
14	15.0	14.5	11.5	10.0	0.5	0.0	14.5	10.5	14.0	8.5	---	---
15	16.5	13.5	11.0	9.5	1.0	0.0	12.0	10.5	13.5	6.0	---	---
16	15.0	12.5	11.5	8.0	4.0	1.5	14.5	12.0	14.0	6.5	---	---
17	16.0	12.0	12.5	6.5	7.0	4.0	12.0	10.0	14.5	8.0	11.5	7.5
18	16.5	12.0	12.5	8.0	9.0	7.0	14.0	10.0	14.5	6.5	14.0	5.0
19	14.5	13.5	12.0	8.5	11.0	8.5	12.5	7.5	15.0	5.5	---	---
20	17.0	13.5	12.0	6.0	12.5	10.0	12.0	6.0	16.0	6.5	11.5	7.0
21	16.0	13.5	10.5	6.5	11.5	10.5	13.5	10.0	16.0	7.5	13.0	7.5
22	14.5	13.5	12.5	6.5	13.0	11.0	13.0	8.0	15.0	9.0	13.5	5.0
23	18.0	14.0	10.5	4.0	11.5	7.5	10.5	6.5	13.5	10.0	16.0	6.0
24	18.5	13.5	11.0	6.0	12.0	7.0	9.0	8.0	14.0	11.5	16.0	8.0
25	16.5	11.5	12.0	6.5	14.5	5.5	11.5	7.0	14.5	12.0	13.5	8.0
26	14.0	10.5	11.0	6.5	11.5	4.5	10.5	3.5	14.0	11.5	16.5	8.5
27	14.0	10.0	12.5	5.5	9.0	6.0	9.0	4.0	13.5	11.0	16.0	8.0
28	13.5	10.0	11.5	5.0	10.0	5.0	11.0	4.5	15.5	10.5	16.0	8.5
29	12.5	7.5	11.0	6.0	8.5	2.0	11.0	8.0	---	---	14.0	7.0
30	12.5	8.0	9.5	5.5	9.0	2.0	12.5	8.5	---	---	12.0	9.5
31	10.5	5.5	---	---	9.5	2.0	12.5	7.0	---	---	15.0	7.5
MONTH	19.0	5.5	16.0	4.0	14.5	0.0	15.0	0.0	16.0	5.0	16.5	5.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	7.0	15.5	10.5	16.5	13.5	17.0	12.5	15.5	12.5	---	---
2	17.0	6.5	14.0	10.5	16.0	14.0	17.0	12.5	15.0	12.0	---	---
3	20.0	7.5	14.0	9.5	18.0	13.5	17.0	10.0	15.5	12.5	---	---
4	20.0	8.0	14.0	10.5	17.0	15.0	18.5	12.5	15.5	12.0	---	---
5	---	---	14.0	8.5	17.5	14.5	17.5	13.5	15.5	12.5	---	---
6	18.0	11.5	14.0	9.0	20.5	15.0	16.5	12.5	15.0	13.5	---	---
7	20.0	9.5	14.0	11.0	21.5	15.5	17.0	12.0	16.0	13.5	---	---
8	20.5	9.0	15.0	9.5	23.0	17.0	17.0	12.0	15.5	13.0	---	---
9	18.0	10.5	16.5	10.5	21.5	17.5	17.5	11.5	16.0	13.0	---	---
10	21.5	11.5	18.0	11.0	18.0	14.5	17.5	12.5	16.0	11.5	---	---
11	19.5	12.0	18.0	11.0	17.0	13.5	---	---	16.0	11.0	---	---
12	18.5	13.0	17.0	12.0	17.0	14.5	---	---	14.0	12.0	---	---
13	17.0	13.0	17.5	12.5	17.5	14.0	---	---	13.5	11.5	---	---
14	17.5	10.0	17.5	13.0	15.5	13.5	17.0	12.5	---	---	---	---
15	---	---	16.0	11.5	15.0	11.0	16.0	12.0	---	---	---	---
16	---	---	18.0	13.5	16.0	13.5	15.5	10.5	---	---	---	---
17	17.5	12.5	19.5	14.0	16.5	13.5	---	---	---	---	13.0	9.5
18	16.5	9.5	18.5	15.0	17.0	11.5	---	---	---	---	13.5	9.5
19	---	---	17.0	14.0	18.5	12.5	---	---	---	---	13.0	11.5
20	---	---	17.0	11.5	19.5	12.5	---	---	---	---	15.5	12.5
21	---	---	16.0	11.5	20.0	13.0	16.5	12.0	---	---	16.5	12.0
22	---	---	16.0	12.0	17.5	15.0	16.5	12.5	---	---	14.5	13.0
23	---	---	15.0	12.0	16.5	14.0	15.5	11.5	---	---	16.5	8.5
24	19.0	10.0	16.0	11.0	16.5	15.0	17.0	10.5	---	---	17.0	14.0
25	19.0	10.5	18.0	13.0	16.0	13.5	17.0	11.0	---	---	17.5	12.0
26	17.0	12.0	20.0	14.0	16.0	12.0	17.5	11.5	---	---	18.0	11.5
27	16.0	12.0	19.5	15.0	19.0	13.0	---	---	---	---	18.5	11.0
28	15.5	10.5	20.0	15.0	20.0	15.0	---	---	---	---	17.5	11.0
29	15.5	8.5	19.5	15.0	18.5	15.0	---	---	---	---	15.0	12.0
30	15.5	9.0	17.0	15.5	18.0	13.0	---	---	---	---	14.5	12.0
31	---	---	17.0	15.0	---	---	---	---	---	---	---	---
MONTH	---	---	20.0	8.5	23.0	11.0	---	---	---	---	---	---

## RUSSIAN RIVER BASIN

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CALIF.

LOCATION.--Lat 39°14'48", long 123°07'45", in NW¼NW¼ sec.18, T.16 N., R.11 W., Mendocino County, at gaging station 0.1 mile downstream from Cold Creek, and 3.9 miles east of Calpella.

DRAINAGE AREA.--92.2 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-52 (partial-record station), October 1952 to September 1958, March to September 1973.

Water temperatures: March 1964 to September 1973.

Sediment records: March to September 1964, October 1966 to September 1968.

Turbidity: Water years 1964-71 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 23.6°C June 27, 28; minimum, 2.0°C Dec. 12.

Period of record:

Water temperatures: Maximum (1965-66, 1967-73), 29.0°C Aug. 11, 1971, July 1, 1972; minimum (1965-67, 1968-70, 1971-73), 2.0°C Dec. 12, 1972.

REMARKS.--No thermograph record Oct. 1-11, Nov. 22-28; range in temperature, 17.5°C to 19.0°C and 8.5°C to 10.5°C, respectively, May 29, recorder stopped.

## CHEMICAL ANALYSES, MARCH TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)
MAR.						
06...	1100	860	133	7.5	9.0	--
23...	0930	608	160	7.9	7.0	15
APR.						
06...	0945	434	160	7.9	10.0	5
20...	1000	375	149	8.0	11.0	4
MAY						
04...	1000	338	153	8.0	13.0	5
18...	1000	133	169	7.9	17.0	3
JUNE						
01...	0930	148	167	7.9	18.0	3
15...	0925	121	164	7.9	14.0	5
29...	0945	114	164	7.9	19.0	5
JULY						
13...	0955	107	163	7.9	19.0	3
27...	0955	114	163	7.9	20.0	2
AUG.						
10...	0950	124	164	7.9	18.0	6
24...	0950	140	151	7.8	16.0	2
31...	1045	137	135	7.7	18.0	3
SEP.						
07...	1030	263	152	7.7	19.0	6
14...	1035	278	167	7.7	19.0	4
21...	1025	305	169	8.0	18.0	4

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)
MAR.							
06...	1130	820	.10	.09	.42	.15	.22
APR.							
18...	1330	385	.04	.02	.10	.04	.06
MAY							
30...	1400	126	.04	.07	.08	.05	.08
JULY							
02...	1700	99	.02	.04	.22	.22	.10
AUG.							
23...	1500	137	.03	.04	.11	.13	.17

DATE	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TEMPER- ATURE (DEG C)
MAR.							
06...	.13	.64	.28	.74	.18	.02	8.5
APR.							
18...	.16	.16	.20	.20	.04	.01	11.0
MAY							
30...	.05	.16	.10	.20	.03	.01	20.0
JULY							
02...	.10	.32	.32	.34	.06	.02	22.0
AUG.							
23...	.05	.28	.18	.31	.00	.01	19.5

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CALIF.--Continued

TEMPERATURE (°C) OF WATER. WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	13.0	12.0	8.0	7.5	5.0	4.0	7.5	6.0	10.5	8.5
2	---	---	14.0	13.0	8.0	8.0	5.0	4.0	8.0	7.0	10.0	7.5
3	---	---	13.5	13.0	8.5	8.0	5.5	4.0	8.0	7.0	9.5	7.5
4	---	---	14.0	12.0	8.5	7.0	5.5	4.5	9.0	7.5	10.0	7.5
5	---	---	12.5	11.5	7.0	6.5	5.0	4.0	10.0	8.5	10.0	7.5
6	---	---	12.5	11.5	6.5	6.0	5.0	4.0	9.5	9.0	11.0	8.0
7	---	---	12.0	12.0	7.0	6.0	4.5	4.0	10.5	9.0	10.0	8.5
8	---	---	12.0	11.5	6.0	4.0	4.5	3.5	10.0	9.0	11.5	8.0
9	---	---	12.0	11.5	4.0	3.5	6.0	3.5	9.5	9.0	12.0	8.5
10	---	---	12.0	11.5	4.5	3.5	6.5	6.0	10.0	8.5	10.5	9.5
11	---	---	12.0	11.0	4.0	3.0	8.0	6.5	10.5	9.0	10.5	7.5
12	17.0	16.5	11.0	10.5	4.0	2.0	9.5	8.5	9.5	8.5	10.0	7.5
13	16.5	16.0	11.0	10.0	4.0	3.0	9.5	8.5	9.0	7.5	10.0	7.5
14	16.5	15.5	10.0	9.5	4.0	3.5	8.5	7.5	9.5	8.5	10.0	7.0
15	16.0	15.5	10.0	9.5	4.5	4.0	8.5	7.0	9.5	7.0	10.0	7.5
16	16.0	15.5	10.0	9.0	5.0	4.0	9.5	8.0	9.5	7.5	10.0	8.0
17	16.0	15.0	9.5	8.5	7.5	5.0	8.5	7.5	10.0	8.0	9.5	8.0
18	15.5	15.0	9.5	9.0	8.5	7.5	9.0	7.5	9.0	7.0	9.5	7.0
19	16.0	15.0	10.0	9.0	9.0	8.5	8.0	6.5	9.0	6.5	9.5	7.0
20	16.0	15.5	9.0	8.5	9.5	9.0	8.0	6.0	9.0	7.0	8.0	7.0
21	16.0	15.0	9.0	8.5	10.0	9.5	8.5	7.5	9.5	7.5	8.5	7.5
22	16.0	15.0	---	---	10.5	8.0	8.0	6.5	9.0	7.5	10.5	6.5
23	16.5	15.0	---	---	10.0	9.0	7.5	6.0	8.5	7.5	11.0	7.0
24	16.5	14.0	---	---	9.5	7.5	7.5	6.5	10.0	8.5	11.0	8.0
25	15.0	13.0	---	---	7.5	6.5	8.0	6.5	10.0	9.0	11.0	8.5
26	14.5	12.5	---	---	6.5	5.5	7.0	5.5	10.5	9.0	11.5	8.5
27	14.5	13.5	---	---	6.5	6.0	7.0	5.5	10.0	9.0	11.0	8.5
28	14.0	12.0	---	---	6.0	5.0	7.0	5.5	10.5	8.5	11.0	8.5
29	12.5	11.5	9.0	8.0	5.0	4.5	7.5	6.5	---	---	10.0	8.0
30	12.0	11.5	8.5	8.0	5.5	4.5	7.5	6.5	---	---	10.0	8.5
31	12.0	11.5	---	---	5.0	4.0	8.0	7.0	---	---	11.0	8.5
MONTH	---	---	---	---	10.5	2.0	9.5	3.5	10.5	6.0	12.0	6.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	7.5	14.5	12.5	20.0	16.0	21.5	16.0	22.5	17.0	20.5	16.5
2	11.0	8.0	14.5	12.5	20.5	15.5	22.0	16.5	22.0	16.5	20.5	16.0
3	11.5	8.5	14.0	12.5	20.5	15.5	22.0	16.5	22.0	17.0	20.0	16.0
4	12.0	9.0	14.0	11.5	21.0	15.5	23.0	17.0	22.5	17.5	20.5	16.0
5	12.5	10.0	15.0	13.0	21.5	16.0	22.5	17.5	22.0	17.0	20.5	16.5
6	12.5	10.0	15.0	13.0	22.0	16.0	22.0	17.0	22.0	17.0	20.0	17.5
7	13.0	10.5	15.0	12.5	22.0	16.0	22.0	16.5	22.0	17.0	20.0	18.0
8	13.0	10.5	15.5	13.5	23.0	17.5	22.0	16.5	23.0	17.5	20.0	18.0
9	12.5	10.5	15.5	13.5	22.5	17.5	22.0	17.0	23.0	17.0	20.5	18.5
10	14.0	11.0	16.0	14.0	21.5	16.5	23.0	17.0	22.0	17.0	20.5	19.0
11	13.5	11.0	16.0	14.0	21.5	16.5	22.5	18.0	22.5	18.0	20.5	19.0
12	13.0	10.5	16.0	14.5	21.0	15.5	22.5	18.0	22.5	17.5	21.0	19.0
13	12.5	10.5	16.5	14.5	19.0	16.0	23.0	18.0	22.5	17.5	20.5	19.0
14	12.5	10.5	16.5	14.5	19.0	14.0	23.0	18.0	22.0	17.5	20.0	18.0
15	13.0	11.5	17.0	15.0	19.0	13.0	23.0	18.5	22.0	17.0	20.0	18.5
16	12.0	11.0	19.5	15.5	19.0	15.0	23.0	18.0	21.5	16.5	19.5	18.0
17	12.5	11.0	21.0	15.5	19.0	13.5	23.0	18.0	21.5	16.5	19.5	18.0
18	11.5	10.0	20.0	16.0	19.5	13.0	22.5	18.0	21.5	16.0	20.0	18.5
19	12.5	10.5	19.0	15.0	20.5	14.5	22.0	17.5	21.0	16.0	20.0	19.0
20	12.5	10.5	19.0	14.5	22.0	16.0	21.5	17.0	21.0	16.0	19.5	18.5
21	13.0	11.0	19.5	14.5	21.5	16.5	21.0	15.5	20.5	15.5	19.0	18.0
22	13.5	12.0	18.5	15.0	21.0	17.0	21.0	16.0	20.0	15.0	19.0	18.0
23	14.0	12.0	16.5	15.5	20.0	17.0	21.0	15.5	19.5	14.5	19.0	18.0
24	14.5	12.5	17.0	14.0	20.5	15.5	21.5	16.0	18.5	15.0	19.0	18.0
25	15.0	13.0	17.0	12.5	22.0	16.5	22.5	17.0	19.0	15.5	18.5	17.5
26	15.5	13.5	18.0	13.5	23.0	18.0	23.0	18.0	19.5	15.0	19.0	18.0
27	15.5	13.5	20.0	15.0	23.5	18.0	23.0	18.5	19.5	16.0	18.5	17.5
28	15.0	13.0	20.5	16.5	23.5	19.0	23.0	18.5	20.5	16.0	18.5	17.5
29	14.5	12.5	---	---	22.5	17.5	23.0	18.5	21.0	16.5	18.5	18.0
30	14.5	12.0	20.0	17.0	21.5	16.5	23.0	18.5	21.0	16.5	18.5	17.5
31	---	---	20.5	16.5	---	---	23.0	18.0	---	---	---	---
MONTH	15.5	7.5	21.0	11.5	23.5	13.0	23.0	15.5	23.0	14.5	21.0	16.0

## RUSSIAN RIVER BASIN

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CALIF.

LOCATION.--Lat 39°11'45", long 123°11'30", in Yokayo Rancho Grant, Mendocino County, at gaging station 500 ft downstream from Coyote Dam, 1,300 ft upstream from mouth, and 3.2 miles northeast of Ukiah.

DRAINAGE AREA.--105 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1952 to March 1955, March to September 1973.

Water temperatures: December 1952 to March 1955, October 1964 to September 1968, October 1972 to September 1973.

Sediment records: December 1952 to March 1955, January 1964 to September 1968.

EXTREMES.--1972-73:

Water temperatures: Maximum, 22.5°C on several days during September; minimum, 7.0°C Jan. 14.

Period of record:

Water temperatures (1972-73): Maximum, 22.5°C on several days in 1973; minimum, 7.0°C Jan. 14, 1973.

REMARKS.--No thermograph record Dec. 17-20, Jan. 9-13, 15-18, Feb. 9-12, Apr. 16-20, probe inoperative; Dec. 21 to Jan. 3, recorder stopped.

## CHEMICAL ANALYSES, MARCH TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
MAR.							
06...	0930	33	101	7.8	9.0	--	--
23...	0950	672	140	7.8	9.0	30	--
APR.							
06...	1045	248	142	7.8	10.0	15	--
18...	1600	.04	--	--	18.0	--	14.3
MAY							
04...	1045	318	143	7.6	10.0	15	--
18...	1045	109	154	7.7	11.0	15	--
30...	1600	160	--	--	11.0	--	10.9
JUNE							
01...	1000	193	149	7.6	11.0	10	--
15...	0950	230	150	7.6	11.0	4	--
29...	1005	282	145	7.6	12.0	8	--
JULY							
13...	1045	357	158	7.4	13.0	5	--
27...	1020	370	170	7.2	15.0	3	--
AUG.							
10...	1045	326	165	7.2	17.0	2	--
24...	1025	270	165	7.2	19.5	1	8.2
31...	1120	263	184	7.2	21.0	1	--
SEP.							
07...	1050	252	156	7.4	21.0	1	--
14...	1045	252	165	7.6	--	2	--
21...	1055	197	165	7.6	21.0	2	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)
MAR.							
06...	0900	33	.20	.21	.22	.10	.03
APR.							
18...	1530	.04	.44	.43	.11	.08	.24
MAY							
30...	1600	160	.12	.15	.10	.09	.02
JULY							
02...	1430	282	.08	.08	.23	.22	.08
AUG.							
23...	1745	270	.01	.00	.20	.25	.30

DATE	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TEMPER- ATURE (DEG C)
MAR.							
06...	.09	.25	.19	.45	.08	.01	9.0
APR.							
18...	.26	.35	.34	.79	.06	.01	18.0
MAY							
30...	.01	.12	.10	.24	.05	.02	11.0
JULY							
02...	.03	.31	.25	.39	.06	.02	11.5
AUG.							
23...	.00	.50	.24	.51	.01	.01	19.5

## RUSSIAN RIVER BASIN

445

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	19.5	16.0	16.0	12.0	11.5	---	---	8.5	7.5	9.5	8.5
2	20.0	20.0	16.0	15.5	11.5	11.5	---	---	8.0	7.5	9.5	8.5
3	20.0	19.5	16.0	15.5	11.5	11.5	---	---	8.0	7.5	9.5	8.5
4	20.0	19.5	16.0	15.5	11.5	11.5	8.0	7.5	8.5	8.0	9.5	8.5
5	20.0	19.5	16.0	15.5	11.5	11.0	8.0	7.5	8.5	8.0	9.5	8.5
6	20.0	19.5	15.5	15.5	11.0	11.0	8.5	7.5	8.5	8.0	9.5	9.0
7	20.0	19.5	15.5	15.5	11.0	10.5	8.5	7.5	8.5	8.0	9.5	9.0
8	20.0	20.0	15.5	15.0	10.5	10.0	7.5	7.5	8.5	8.0	10.0	9.0
9	20.0	19.5	15.0	15.0	10.0	10.0	---	---	---	---	10.0	9.0
10	20.0	19.5	15.0	14.5	10.0	9.5	---	---	---	---	9.5	9.0
11	19.5	19.5	15.0	14.5	9.5	9.0	---	---	---	---	9.5	9.0
12	20.0	19.5	14.5	14.0	9.0	9.0	---	---	---	---	10.0	9.0
13	19.5	19.0	14.0	14.0	9.0	8.5	---	---	8.5	8.0	10.0	9.0
14	19.5	19.0	15.5	14.0	9.0	8.5	7.5	7.0	8.5	8.5	10.0	9.0
15	19.0	18.5	14.0	13.5	8.5	8.5	---	---	9.0	8.5	10.0	9.5
16	18.5	18.5	14.0	13.5	8.5	8.0	---	---	9.0	8.5	9.5	9.5
17	18.5	18.5	13.5	13.0	---	---	---	---	9.0	8.5	10.5	9.5
18	18.5	18.0	13.5	13.0	---	---	---	---	9.0	8.5	10.0	9.5
19	18.0	18.0	13.0	13.0	---	---	8.0	8.0	9.5	9.0	10.5	9.5
20	18.0	18.0	13.0	13.0	---	---	8.5	8.0	9.0	8.5	10.5	9.5
21	18.0	18.0	13.0	12.5	---	---	8.5	8.0	9.0	8.5	10.0	9.5
22	18.0	18.0	13.0	12.5	---	---	8.5	8.0	9.0	8.5	10.5	9.5
23	18.0	17.5	12.5	12.5	---	---	8.5	8.0	9.0	8.5	10.0	9.5
24	18.0	17.5	12.5	12.5	---	---	8.5	8.0	9.0	8.5	10.0	9.5
25	18.0	17.5	12.5	12.0	---	---	8.0	8.0	9.0	8.5	10.5	9.5
26	18.0	17.5	12.5	12.0	---	---	8.5	7.5	9.0	8.5	10.5	9.5
27	18.0	17.5	12.5	12.0	---	---	8.5	7.5	9.0	8.5	10.5	9.5
28	18.0	17.5	12.0	12.0	---	---	8.5	7.5	9.5	8.5	10.5	9.5
29	17.5	17.0	12.0	12.0	---	---	8.5	8.0	---	---	10.0	9.5
30	17.0	16.5	12.0	11.5	---	---	8.0	8.0	---	---	9.5	9.5
31	16.5	16.0	---	---	---	---	8.5	7.5	---	---	10.0	9.5
MONTH	20.0	16.0	16.0	11.5	---	---	---	---	9.5	7.5	10.5	8.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.5	11.5	11.0	11.5	11.0	12.5	12.0	16.0	15.0	22.0	21.0
2	10.0	9.5	11.5	10.5	11.5	11.0	12.0	11.5	16.0	15.0	22.0	21.5
3	10.5	9.5	11.0	10.5	11.5	11.0	12.0	11.5	16.0	15.0	22.0	21.5
4	10.5	9.5	11.5	10.0	11.5	11.0	12.0	11.5	16.5	15.5	22.5	21.5
5	10.5	10.0	11.5	11.0	11.5	11.0	12.5	12.0	16.5	15.5	22.5	21.5
6	10.5	10.0	11.5	11.0	11.5	11.0	12.5	12.0	17.0	16.0	22.5	21.5
7	10.5	10.0	11.5	11.0	11.5	11.0	12.5	12.0	17.5	16.0	22.5	21.0
8	10.5	10.0	11.5	11.0	11.5	11.0	12.5	12.0	17.5	16.5	22.5	21.5
9	10.5	10.0	11.5	11.0	12.0	11.0	12.5	12.0	17.5	16.5	22.5	22.0
10	10.5	10.0	11.5	11.0	11.5	11.0	12.5	12.0	17.5	17.0	22.5	21.5
11	10.5	10.0	11.0	10.5	11.5	11.5	13.0	12.5	17.5	17.0	22.5	21.5
12	10.5	10.0	11.5	11.0	12.0	11.5	13.0	12.5	18.0	17.5	22.5	21.5
13	10.5	10.0	11.5	11.0	12.0	11.0	13.0	12.5	18.5	17.5	22.5	21.5
14	10.5	10.0	11.5	11.0	12.0	11.5	13.5	12.5	18.5	18.0	22.5	21.5
15	10.5	10.0	11.5	11.0	12.0	11.5	13.5	12.5	19.0	18.0	22.5	21.5
16	---	---	11.5	11.0	12.0	11.0	13.5	12.5	19.0	18.5	22.5	21.5
17	---	---	11.5	11.0	12.0	11.5	13.5	12.5	19.5	18.5	22.5	21.5
18	---	---	11.5	11.0	12.0	11.5	13.5	13.0	19.5	18.5	22.5	21.5
19	---	---	11.5	11.0	12.0	11.5	13.5	13.0	19.5	19.0	22.0	21.5
20	---	---	11.5	11.0	12.0	11.5	14.0	13.0	20.0	19.0	22.0	21.5
21	11.0	10.5	11.5	11.0	12.0	11.5	14.0	13.5	20.0	19.5	22.0	21.0
22	11.0	10.5	11.5	11.0	12.0	11.5	14.0	13.5	20.0	19.5	22.0	21.5
23	11.0	10.5	11.5	11.0	12.0	11.5	14.0	13.5	20.0	19.5	21.5	21.0
24	11.0	10.5	11.0	11.0	12.0	11.5	14.0	13.5	20.0	19.5	21.0	21.0
25	11.0	10.5	11.5	11.0	12.0	11.5	14.5	14.0	20.5	20.0	21.0	20.5
26	11.0	10.5	11.5	11.0	12.0	11.5	14.5	14.0	21.0	20.0	21.0	20.5
27	11.0	10.5	11.5	11.0	12.0	11.5	15.0	14.0	21.0	20.5	20.5	20.5
28	11.0	10.5	11.5	11.0	12.0	11.5	15.0	14.5	21.0	20.5	20.5	20.5
29	11.0	10.5	11.5	11.0	12.5	12.0	15.0	14.5	21.5	20.5	21.0	20.5
30	11.0	10.5	11.5	11.0	12.5	12.0	15.5	14.5	21.5	20.5	20.5	20.0
31	---	---	11.5	11.0	---	---	15.5	14.5	21.5	21.0	---	---
MONTH	11.0	9.5	11.5	10.0	12.5	11.0	15.5	11.5	21.5	15.0	22.5	20.0

## RUSSIAN RIVER BASIN

11462500 RUSSIAN RIVER NEAR HOPLAND, CALIF.

LOCATION.--Lat 39°01'36", long 123°07'46", in Rancho de Sanel Grant, Mendocino County, temperature recorder at gaging station on right bank, at abandoned highway bridge, 0.2 mile downstream from McNab Creek, and 4 miles north of Hopland.

DRAINAGE AREA.--362 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1965, water year 1966 (partial-record station).  
Water temperatures: September 1965 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 24.0°C May 18; minimum, 5.0°C Dec. 16.

Period of record:

Water temperatures: Maximum (1965-66, 1968-69, 1971-73), 24.0°C on several days in 1969 and 1973; minimum (1965-68, 1969-70, 1971-73), 5.0°C Feb. 2, Dec. 16, 1972.

REMARKS.--Recorder stopped Dec. 25 to Apr. 19. Where no maximum or minimum is shown, temperature is once-daily reading.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	20.5	-- 18.0	14.5	-- 13.5	11.0	-- 10.0	--	--	--	--	--	--
2	21.0	-- 18.0	15.5	-- 14.5	11.0	-- 10.5	--	--	--	--	--	--
3	20.5	-- 18.0	15.5	-- 14.5	11.0	-- 10.5	--	--	--	--	--	--
4	19.5	-- 18.0	16.0	-- 14.5	11.0	-- 9.5	-- 9.0	--	--	--	--	--
5	21.0	-- 18.0	15.0	-- 13.5	9.5	-- 8.5	--	--	--	--	--	--
6	20.0	-- 17.5	14.5	-- 13.0	9.5	-- 8.0	--	--	--	--	--	--
7	18.5	-- 17.0	14.5	-- 12.5	8.5	-- 7.5	--	--	--	--	-- 10.0	--
8	19.0	-- 17.5	13.5	-- 12.0	8.0	-- 6.5	--	--	--	--	--	--
9	18.5	-- 18.0	13.5	-- 13.0	7.0	-- 6.0	--	--	--	--	--	--
10	19.0	-- 17.5	13.5	-- 13.0	7.5	-- 6.5	--	--	--	--	--	--
11	19.0	-- 18.0	13.0	-- 11.0	7.0	-- 6.0	--	--	--	--	--	--
12	18.5	-- 17.5	12.5	-- 11.5	7.0	-- 6.5	--	--	--	--	--	--
13	18.5	-- 17.5	12.5	-- 11.5	7.5	-- 6.5	--	--	--	--	--	--
14	18.0	-- 17.0	11.5	-- 10.5	7.5	-- 6.5	--	--	--	--	--	--
15	18.0	-- 17.0	12.0	-- 11.0	7.5	-- 6.5	--	--	--	--	--	--
16	17.5	-- 17.0	11.5	-- 10.5	7.5	-- 5.0	--	--	--	--	--	--
17	18.5	-- 17.0	11.5	-- 10.5	8.0	-- 6.0	-- 9.5	--	--	--	--	--
18	18.5	-- 16.5	12.0	-- 11.5	9.5	-- 8.0	--	--	--	--	--	--
19	18.0	-- 16.5	12.5	-- 11.5	10.0	-- 9.5	--	--	--	--	--	--
20	18.5	-- 17.0	11.5	-- 10.5	11.0	-- 9.5	--	--	--	--	--	--
21	18.0	-- 16.5	12.0	-- 11.5	10.0	-- 9.5	--	--	--	--	--	--
22	17.5	-- 17.0	12.0	-- 11.5	10.5	-- 9.5	--	--	--	--	--	--
23	18.5	-- 16.5	11.5	-- 10.5	10.5	-- 10.0	--	--	--	--	--	--
24	18.0	-- 16.5	12.0	-- 11.0	10.5	-- 9.5	--	--	--	--	--	--
25	17.5	-- 16.5	12.0	-- 10.5	--	--	-- 9.0	--	--	--	--	--
26	16.5	-- 14.5	12.0	-- 11.0	--	--	--	--	--	--	--	--
27	16.5	-- 15.0	12.0	-- 11.0	--	--	--	--	--	--	--	--
28	15.5	-- 14.0	11.5	-- 10.5	--	--	--	--	--	--	--	--
29	19.5	-- 13.5	11.5	-- 10.5	--	--	--	--	--	--	--	--
30	15.0	-- 12.5	11.0	-- 10.0	--	--	--	--	--	--	--	--
31	15.0	-- 13.0	--	--	--	--	--	--	--	--	--	--
MONTH	21.0	-- 12.5	16.0	-- 10.0	--	--	--	--	--	--	--	--
DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	--	--	16.5	-- 12.5	19.5	-- 16.5	18.5	-- 14.0	20.0	-- 15.5	23.0	-- 19.0
2	--	--	16.5	-- 12.5	19.5	-- 16.0	18.5	-- 14.0	20.5	-- 15.5	23.0	-- 19.5
3	--	--	16.5	-- 12.5	19.5	-- 16.0	19.0	-- 14.0	20.5	-- 16.0	23.0	-- 19.0
4	--	--	15.5	-- 12.5	19.5	-- 16.5	19.0	-- 14.5	20.5	-- 16.5	23.0	-- 19.5
5	--	--	16.5	-- 12.0	20.0	-- 16.5	19.0	-- 15.0	20.5	-- 16.0	23.0	-- 19.5
6	--	--	16.5	-- 12.5	20.0	-- 16.5	19.0	-- 14.5	21.0	-- 16.5	23.0	-- 19.0
7	--	--	16.0	-- 12.5	20.0	-- 16.5	18.5	-- 14.0	21.0	-- 17.0	23.0	-- 20.0
8	--	--	16.5	-- 12.0	20.0	-- 17.0	19.0	-- 14.0	21.0	-- 17.0	23.5	-- 19.5
9	--	--	16.5	-- 12.0	20.0	-- 16.5	19.0	-- 14.0	21.0	-- 16.5	24.0	-- 20.0
10	--	--	16.5	-- 12.0	19.0	-- 15.5	19.0	-- 14.0	21.0	-- 17.0	23.0	-- 20.0
11	--	--	16.5	-- 12.0	19.0	-- 15.5	18.5	-- 14.5	22.0	-- 17.5	23.0	-- 20.0
12	--	--	17.0	-- 12.5	18.5	-- 14.5	19.0	-- 14.5	21.5	-- 17.0	23.5	-- 20.0
13	--	--	16.0	-- 12.5	17.0	-- 14.5	19.5	-- 14.5	22.0	-- 17.5	23.0	-- 20.0
14	--	--	17.5	-- 13.0	17.5	-- 13.5	19.0	-- 14.5	22.0	-- 17.5	23.0	-- 19.5
15	--	--	21.0	-- 14.5	17.5	-- 13.5	19.0	-- 14.5	22.0	-- 17.5	23.0	-- 19.5
16	--	--	22.5	-- 16.0	18.0	-- 14.5	19.0	-- 14.5	22.0	-- 17.5	23.0	-- 19.0
17	--	--	23.5	-- 17.5	18.0	-- 13.5	19.5	-- 15.0	22.0	-- 18.0	23.0	-- 19.5
18	--	--	24.0	-- 19.0	18.0	-- 13.5	19.5	-- 14.5	22.0	-- 18.0	23.0	-- 20.0
19	-- 17.0	--	21.0	-- 16.5	18.5	-- 14.0	19.5	-- 15.0	22.0	-- 18.0	22.0	-- 21.0
20	18.5	-- 13.0	20.0	-- 16.0	19.0	-- 14.0	19.0	-- 14.5	22.0	-- 18.0	23.0	-- 20.5
21	17.5	-- 14.0	20.0	-- 16.0	17.5	-- 14.5	19.0	-- 14.5	22.0	-- 17.5	22.5	-- 19.5
22	17.5	-- 14.5	20.0	-- 16.0	17.5	-- 14.0	19.0	-- 15.0	22.0	-- 17.5	21.0	-- 19.5
23	18.0	-- 14.0	18.5	-- 16.0	16.0	-- 14.0	19.0	-- 14.5	22.0	-- 18.0	22.5	-- 20.0
24	18.0	-- 14.5	17.0	-- 15.5	18.0	-- 13.5	19.5	-- 15.0	21.5	-- 18.0	21.5	-- 20.0
25	19.0	-- 15.0	18.5	-- 14.5	19.0	-- 14.5	20.0	-- 15.5	22.0	-- 18.5	22.5	-- 19.0
26	19.0	-- 15.5	18.5	-- 14.5	19.5	-- 15.0	20.0	-- 16.0	22.0	-- 19.5	22.5	-- 18.5
27	19.0	-- 15.5	19.5	-- 15.5	19.5	-- 15.0	20.0	-- 16.0	22.0	-- 19.0	22.0	-- 19.5
28	17.5	-- 13.5	20.5	-- 16.5	18.5	-- 15.0	20.0	-- 16.0	23.0	-- 19.5	22.0	-- 19.0
29	17.0	-- 13.0	20.5	-- 17.5	19.0	-- 14.0	20.0	-- 16.0	23.5	-- 19.5	22.0	-- 19.0
30	17.0	-- 12.5	19.5	-- 17.0	18.0	-- 13.5	20.0	-- 16.0	23.0	-- 19.5	21.5	-- 18.5
31	--	--	20.0	-- 16.0	--	--	20.5	-- 16.0	23.0	-- 19.5	--	--
MONTH	--	--	24.0	-- 12.0	20.0	-- 13.5	20.5	-- 14.0	23.5	-- 15.5	24.0	-- 18.5



## RUSSIAN RIVER BASIN

447

## 11464000 RUSSIAN RIVER NEAR HEALDSBURG, CALIF.

LOCATION.--Lat 38°36'48", long 122°50'07", in Sotoyome Grant, Sonoma County, temperature recorder at gaging station on left bank, 2 miles east of Healdsburg, and 3.5 miles upstream from Dry Creek.

DRAINAGE AREA.--793 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1965, water year 1966 (partial-record station).

Water temperatures: October 1965 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 27.0°C June 8; minimum, 5.0°C Dec. 10, 11.

Period of record:

Water temperatures: Maximum (1965-68, 1969-70, 1971-73), 28.0°C July 13, 14, 1972; minimum (1965-69, 1971-73), 5.0°C Dec. 10, 11, 1972.

REMARKS.--Recorder stopped July 17-29.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	17.0	15.0	13.0	11.5	11.0	8.0	7.0	10.0	9.0	13.0	12.0
2	21.5	18.0	16.0	14.0	11.0	11.0	8.0	7.0	10.0	9.5	12.5	11.0
3	20.5	17.5	16.5	16.0	11.5	10.5	8.0	7.0	10.0	10.0	12.0	11.0
4	19.0	18.0	17.0	15.0	10.5	9.5	8.0	6.5	10.0	10.0	11.5	10.0
5	21.5	15.5	15.0	12.5	9.5	8.5	7.5	6.0	10.5	9.5	12.0	10.0
6	22.0	17.0	14.5	11.5	9.5	9.0	7.0	6.0	10.5	10.0	11.5	11.0
7	20.0	15.5	15.0	13.0	9.0	8.0	7.0	6.0	11.0	10.0	11.5	10.0
8	19.5	18.5	14.0	12.0	8.0	6.5	7.0	6.0	11.5	11.0	12.5	10.5
9	18.5	17.0	13.0	12.5	7.0	5.5	7.5	6.0	11.5	11.0	13.5	11.5
10	18.5	17.0	14.0	12.5	6.0	5.0	8.5	7.5	11.0	10.5	13.0	12.0
11	18.5	16.5	13.5	12.5	6.0	5.0	9.5	8.5	11.5	10.5	12.5	10.5
12	18.5	16.5	13.0	11.5	6.0	5.5	11.0	9.5	11.5	10.5	12.0	10.5
13	18.5	16.5	13.0	12.0	6.5	5.5	11.5	11.0	10.5	10.0	12.0	10.0
14	17.5	16.0	12.5	12.0	6.0	5.5	11.5	10.0	11.0	10.5	12.5	10.0
15	17.5	16.0	13.0	12.5	6.5	5.5	10.0	9.5	10.5	9.5	13.0	10.5
16	17.0	16.0	12.5	12.0	7.0	6.5	11.0	10.0	11.0	9.5	13.0	12.0
17	18.0	16.0	12.5	11.5	7.5	6.0	11.0	10.0	11.5	10.5	12.5	11.0
18	18.0	15.5	12.5	11.5	9.0	7.5	10.5	10.0	11.0	10.0	12.5	9.5
19	17.0	16.0	13.5	12.0	10.0	9.0	10.0	9.0	11.0	9.5	12.5	11.0
20	18.5	15.5	13.0	11.5	11.0	10.0	9.5	8.0	11.0	10.0	11.0	9.5
21	17.5	16.0	12.5	12.0	11.0	10.5	10.0	9.5	11.5	10.0	10.5	9.0
22	17.5	16.0	12.5	11.5	10.5	10.0	10.0	9.0	12.5	10.5	11.5	8.5
23	19.5	16.5	12.5	11.0	10.5	9.5	9.5	8.5	12.5	11.5	12.5	10.0
24	19.0	16.0	11.5	10.5	10.5	9.5	9.0	9.0	12.5	12.0	13.0	10.5
25	18.0	14.0	12.0	11.0	10.0	9.0	10.0	9.0	12.0	11.5	13.0	11.5
26	17.0	14.0	11.5	11.5	9.5	8.0	10.0	8.5	12.0	12.0	14.0	11.5
27	17.0	13.5	13.0	11.5	9.0	8.5	9.5	8.0	12.5	12.0	13.5	11.5
28	16.5	13.5	12.5	11.0	9.0	7.5	9.5	8.0	12.5	12.0	13.5	10.5
29	14.5	11.5	12.0	11.5	8.0	7.0	9.5	9.0	---	---	12.5	10.5
30	14.5	11.0	11.5	10.5	8.0	7.0	10.0	9.0	---	---	12.5	11.0
31	14.5	11.0	---	---	8.0	7.0	10.5	9.5	---	---	13.5	10.5
MONTH	22.0	11.0	17.0	10.5	11.5	5.0	11.5	6.0	12.5	9.0	14.0	8.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	11.0	20.5	15.5	22.0	19.0	24.0	21.5	24.0	21.5	23.0	21.0
2	14.0	10.5	19.5	15.5	22.5	20.0	23.5	21.5	23.5	21.5	23.0	21.0
3	14.5	11.0	21.0	15.5	23.5	21.0	24.0	21.5	23.5	21.0	22.5	20.0
4	15.5	11.5	19.5	16.0	23.5	21.0	25.5	22.0	23.5	21.0	22.0	20.5
5	16.5	12.5	20.5	15.0	24.0	21.0	25.5	23.0	23.5	21.0	22.0	20.0
6	17.5	14.0	21.0	16.0	25.0	22.0	24.5	22.0	23.0	21.5	22.5	20.5
7	17.5	13.5	21.0	16.5	26.0	23.0	24.0	21.5	22.5	21.0	23.0	21.0
8	17.5	14.0	21.5	16.5	27.0	24.5	24.5	22.0	22.0	20.5	23.0	21.0
9	16.0	14.0	22.0	16.5	26.0	24.0	25.0	22.5	23.0	20.5	23.5	21.5
10	18.0	14.5	23.0	18.0	24.0	22.0	25.0	22.5	23.5	21.5	23.0	21.5
11	19.0	15.0	24.0	18.0	23.0	20.5	25.0	22.0	24.0	22.0	22.5	19.5
12	18.0	15.0	24.0	18.0	24.0	21.0	24.0	22.0	23.5	21.5	23.0	18.5
13	16.5	14.5	24.5	18.0	23.5	20.5	23.0	21.5	24.0	21.0	22.0	18.0
14	17.0	13.0	23.5	19.0	20.5	17.5	22.5	21.0	24.5	22.0	22.0	17.0
15	17.5	14.0	25.0	18.5	21.0	18.5	22.0	20.5	23.5	22.0	21.5	18.0
16	16.0	15.0	26.0	18.5	21.5	20.0	22.0	20.5	23.5	21.5	21.5	17.5
17	17.5	14.0	27.0	18.5	21.0	19.5	---	---	23.5	21.5	22.5	16.5
18	16.5	12.0	27.0	18.5	22.0	19.5	---	---	23.0	21.0	23.5	17.5
19	17.5	13.0	26.0	18.0	24.0	21.0	---	---	23.0	21.0	22.5	19.5
20	17.5	13.0	25.0	16.5	25.5	22.0	---	---	23.0	20.5	23.0	19.0
21	19.5	13.5	25.0	17.0	25.5	23.0	---	---	23.0	21.0	23.0	17.0
22	19.0	14.5	24.5	17.0	24.0	21.5	---	---	22.5	20.5	20.0	17.5
23	20.0	15.0	25.0	17.0	23.0	21.0	---	---	22.5	20.0	22.0	17.0
24	21.5	15.5	21.0	20.0	23.5	20.0	---	---	21.5	20.0	21.5	18.0
25	22.0	16.5	22.0	18.5	25.0	22.0	---	---	22.5	20.5	22.5	16.5
26	22.0	16.0	21.5	18.0	26.5	23.5	---	---	22.5	20.5	23.0	16.5
27	22.0	16.5	23.5	19.0	26.5	24.5	---	---	21.5	20.0	23.5	17.5
28	20.5	16.0	25.0	21.5	25.0	23.0	---	---	23.0	20.0	23.5	17.5
29	20.5	15.0	25.0	23.0	25.0	22.5	---	---	23.5	21.5	23.0	17.0
30	20.5	15.5	23.5	21.5	24.5	21.5	23.5	22.5	23.0	21.0	21.0	17.0
31	---	---	22.0	20.0	---	---	24.0	21.5	23.0	21.0	---	---
MONTH	22.0	10.5	27.0	15.0	27.0	17.5	---	---	24.5	20.0	23.5	16.5

## RUSSIAN RIVER BASIN

11464500 DRY CREEK NEAR CLOVERDALE, CALIF.

LOCATION.--Lat 38°44'59", long 123°05'28", in NE $\frac{1}{4}$ NE $\frac{1}{4}$  sec.5, T.10 N., R.11 W., Sonoma County, temperature recorder at gaging station on left bank 500 ft downstream from Smith Creek, and 5 miles southwest of Cloverdale.

DRAINAGE AREA.--87.8 sq mi.

PERIOD OF RECORD.--Water temperatures: May 1965 to September 1973.

## EXTREMES.--1972-73:

Water temperatures: Maximum, 30.5°C July 26; minimum, 2.0°C Dec. 10.

Period of record:

Water temperatures: Maximum (1965-66, 1967-73), 33.5°C Aug. 6, 7, 1966; minimum (1966-73), 2.0°C Dec. 10, 1972.

REMARKS.--Recorder stopped May 28, 29, July 2, 3.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	17.0	15.0	11.5	10.5	9.5	8.5	5.5	10.5	8.0	13.0	10.0
2	21.5	16.5	16.0	13.0	10.5	9.5	8.0	5.0	11.0	9.0	13.0	9.0
3	21.0	17.0	15.5	14.0	11.0	7.5	7.0	5.0	10.5	10.0	11.5	10.0
4	18.0	17.0	16.5	14.0	8.5	5.5	7.0	4.0	10.5	10.0	12.0	9.5
5	22.0	16.5	15.5	11.5	8.0	7.5	6.5	4.0	12.0	10.5	12.0	9.0
6	21.0	15.5	15.0	11.5	8.0	6.0	6.0	3.5	12.0	11.0	11.5	10.0
7	18.5	14.5	13.5	12.0	6.0	4.0	6.0	4.0	12.0	11.0	11.5	9.0
8	18.5	17.0	14.0	11.0	5.0	3.0	8.0	6.0	12.5	11.5	13.5	10.0
9	18.0	17.0	12.0	11.0	6.0	3.5	9.0	8.0	12.0	10.5	14.0	10.0
10	18.0	16.5	13.5	12.0	5.5	2.0	9.0	8.0	11.5	10.5	13.5	11.0
11	19.0	16.5	13.0	11.5	5.5	3.5	9.5	8.5	12.0	10.5	13.0	9.5
12	17.5	16.0	13.0	11.0	6.5	3.0	11.0	9.5	10.5	10.0	13.0	9.0
13	18.5	16.0	12.5	11.5	6.0	3.0	11.5	10.5	11.5	10.0	13.5	9.0
14	17.5	15.0	13.0	12.0	6.0	4.5	11.5	11.0	11.5	9.5	13.0	8.0
15	16.5	15.0	12.5	12.0	7.0	5.5	11.5	11.0	11.5	8.5	14.0	8.5
16	17.5	15.0	13.0	11.5	8.5	7.0	11.5	11.0	12.0	9.0	12.5	10.0
17	18.0	15.5	12.0	10.0	10.0	8.5	11.0	10.0	12.0	9.0	12.0	9.0
18	19.0	14.5	13.0	11.0	11.5	10.0	11.0	10.0	11.5	8.0	13.5	8.0
19	16.5	15.0	12.0	11.0	12.5	11.5	10.0	8.5	11.5	8.0	11.5	9.0
20	19.0	14.5	12.0	10.0	12.0	11.5	10.0	8.0	11.5	8.0	11.0	8.5
21	18.5	15.0	12.0	10.5	12.0	11.0	11.0	9.5	11.5	8.0	11.0	8.5
22	19.0	15.0	12.5	10.0	11.5	11.0	10.0	8.5	11.5	8.5	13.0	7.5
23	20.0	15.5	11.5	9.0	11.5	9.5	9.5	8.0	11.5	9.5	14.0	8.0
24	19.5	14.5	12.0	9.0	10.0	8.0	9.5	8.5	11.0	10.0	14.5	9.0
25	18.5	13.0	12.5	9.0	10.0	8.0	10.0	7.5	12.0	10.5	14.0	11.0
26	17.5	12.5	12.5	9.0	10.0	9.0	8.5	6.5	11.5	11.0	16.0	10.0
27	18.0	13.5	13.0	10.0	9.0	7.0	9.0	6.5	11.5	11.0	15.0	10.0
28	15.5	12.5	12.5	9.0	8.0	6.0	9.0	6.5	13.0	11.0	15.0	9.0
29	16.0	10.5	13.0	10.0	8.5	6.0	10.0	8.5	---	---	13.0	9.0
30	15.0	9.5	12.0	8.0	8.0	6.0	10.0	9.0	---	---	13.0	10.0
31	15.0	10.0	---	---	8.0	5.5	10.0	8.0	---	---	15.0	10.0
MONTH	22.0	9.5	16.5	8.0	12.5	2.0	11.5	3.5	13.0	8.0	16.0	7.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	9.0	22.0	14.5	25.5	18.0	27.5	18.0	28.0	19.5	27.5	17.0
2	16.0	9.0	22.5	14.0	26.0	18.0	---	---	28.5	19.0	26.0	18.0
3	16.0	9.0	21.0	14.0	26.5	18.0	---	---	28.0	19.0	26.5	17.0
4	17.5	10.0	22.0	13.0	27.0	19.0	29.5	21.0	28.0	18.0	25.0	17.5
5	18.5	11.0	22.0	13.5	28.5	19.0	29.0	21.0	28.0	19.0	27.0	18.0
6	18.5	12.5	21.5	14.0	28.5	19.0	28.0	20.0	28.0	20.0	26.5	16.5
7	19.0	11.5	23.0	13.5	28.5	20.0	28.0	19.0	28.0	19.5	26.0	17.5
8	19.0	12.0	23.5	14.5	29.0	20.5	27.5	19.0	28.5	19.5	27.0	16.5
9	16.5	12.0	24.5	15.0	27.0	20.0	30.5	19.5	28.5	19.0	27.5	17.0
10	20.0	13.0	24.5	15.0	26.0	19.0	29.5	20.5	29.0	19.0	26.0	18.5
11	20.0	13.0	25.0	15.5	26.5	18.5	29.5	20.0	28.5	20.0	26.5	18.5
12	20.0	13.5	25.0	16.0	26.5	19.0	29.5	20.5	27.5	19.5	26.0	18.0
13	16.5	13.0	25.0	17.0	23.5	18.5	29.0	20.0	28.0	18.5	25.5	17.5
14	19.5	12.0	25.5	17.0	24.0	16.0	28.0	20.5	29.0	19.0	26.0	17.0
15	19.0	12.5	26.5	17.0	24.5	16.0	28.0	21.0	28.0	18.5	24.5	18.0
16	16.5	13.0	27.0	18.0	25.0	18.0	28.0	21.0	28.5	18.5	24.5	16.5
17	18.5	12.0	26.5	18.5	25.0	16.5	29.0	20.5	28.5	18.5	25.5	17.0
18	17.5	10.0	25.5	17.5	26.0	15.5	28.0	20.5	28.0	17.5	22.5	19.5
19	18.5	11.0	25.0	11.5	27.5	17.5	28.5	20.5	28.5	17.5	24.0	19.0
20	19.5	11.0	25.5	17.0	28.5	18.5	29.0	20.0	28.0	17.5	---	---
21	20.0	11.5	25.5	17.0	26.5	19.0	28.5	19.0	27.5	17.5	24.5	17.0
22	20.5	12.5	25.0	16.5	27.0	19.0	28.0	19.0	26.5	16.5	20.5	17.0
23	21.5	12.5	21.0	18.0	22.0	19.5	27.5	18.0	25.0	16.5	23.5	18.5
24	22.0	13.0	23.5	16.0	27.0	18.0	29.0	18.5	24.0	17.0	23.5	17.0
25	22.5	14.0	24.5	14.5	28.0	19.5	30.0	20.0	26.5	17.0	23.5	17.0
26	23.0	14.5	25.5	15.5	29.0	21.0	30.5	20.5	25.5	16.5	23.5	16.5
27	23.0	15.0	27.0	17.0	27.0	21.0	29.0	20.5	25.0	13.5	24.0	16.0
28	22.0	14.0	---	---	28.0	20.5	28.5	20.0	27.5	17.5	24.0	16.5
29	22.0	13.5	---	---	27.5	19.5	29.0	20.0	27.0	18.0	23.0	17.0
30	22.0	13.5	24.0	19.0	26.5	17.5	29.0	20.0	26.0	18.0	22.5	17.5
31	---	---	25.0	18.0	---	---	29.5	19.5	26.0	18.5	---	---
MONTH	23.0	9.0	27.0	11.5	29.0	15.5	30.5	18.0	29.0	13.5	27.5	16.0

## RUSSIAN RIVER BASIN

449

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.

LOCATION.--Lat 38°41'55", long 122°57'25", in Tzabaco Grant, Sonoma County, at gaging station 0.3 mile downstream from Pena Creek, and 3 miles west of Geyserville.

DRAINAGE AREA.--162 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1970 to September 1973.

Water temperatures: March 1964 to September 1973.

Sediment records: March 1964 to September 1973.

Turbidity: Water years 1964-73 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 26.0°C July 26; minimum, 4.0°C Dec. 11.

Sediment concentrations: Maximum daily, 4,440 mg/l Jan. 12; minimum daily, no flow for many days.

Sediment discharge: Maximum daily, 157,000 tons Jan. 12; minimum daily, 0 tons on many days.

Period of record:

Water temperatures: Maximum, 26.5°C Aug. 11, 1971; minimum (1964-66, 1967-73), 4.0°C Dec. 11, 1972.

Sediment concentrations: Maximum daily, 15,000 mg/l (estimated) Dec. 22, 1964; minimum daily, no flow for many days in 1964, 1966, 1970-73.

Sediment discharge: Maximum daily, 830,000 tons (estimated) Dec. 22, 1964; minimum daily, 0 tons on many days in 1964, 1966, 1968-73.

REMARKS.--No flow Oct. 1-12, Aug. 20 to Sept. 30. No thermograph record Dec. 13, 14, Dec. 29 to Jan. 30, probe inoperative; Jan. 31 to Feb. 21, Apr. 1-11, recorder stopped. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	ALKA- LITY AS CACO <sub>3</sub> (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM (COL. PER 100 ML)
NOV.										
14...	1540	--	1200	66	153	7.6	12.0	--	--	--
DEC.										
14...	0900	--	82	--	245	7.1	4.0	--	--	--
14...	0930	--	82	109	245	7.1	4.0	12.4	95	--
14...	1200	--	82	115	240	7.0	5.0	12.4	97	0
14...	1500	--	82	112	242	7.0	5.5	12.0	95	--
14...	1800	--	81	110	242	7.2	5.5	11.6	92	--
14...	2100	--	81	112	243	7.2	5.5	11.6	92	--
14...	2400	--	81	111	241	7.1	5.5	11.5	91	0
15...	0300	--	82	107	240	6.9	5.5	11.4	90	--
15...	0600	--	82	109	245	7.2	5.5	11.2	89	0
FEB.										
21...	1200	--	506	88	190	6.9	11.0	11.1	101	20
21...	1800	--	486	89	210	7.2	13.0	10.2	97	--
21...	2400	--	466	87	205	6.7	11.0	10.6	96	14
22...	0600	--	445	85	190	7.0	9.5	11.0	96	--
22...	1200	--	424	84	190	7.3	11.0	10.9	99	15
APR.										
12...	1415	--	147	102	233	8.0	17.5	--	--	--
MAY										
24...	1200	--	28	115	250	7.1	18.0	10.4	109	16
24...	1800	--	31	118	250	7.5	18.5	9.8	104	--
24...	2400	--	29	107	250	7.1	17.0	7.6	78	17
25...	0600	--	29	118	243	7.5	16.0	7.6	77	--
25...	1200	--	32	112	240	7.5	19.0	10.9	117	11

## RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
NOV. 14...	1540	--	1200	15	120	14	7.0	7.0	.9	81	0	9.0
DEC. 14-15	--	82	--	16	90	24	13	12	.8	122	0	19
FEB. 21-22	--	465	--	19	40	19	10	7.8	.7	112	0	12
APR. 12...	1415	--	147	19	40	24	11	9.7	.8	124	0	16
MAY 24-25	--	30	--	18	30	25	13	11	1.0	142	0	16

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
NOV. 14...	4.5	.2	--	.39	--	--	--	--	--	--	--	--
DEC. 14-15	5.3	.2	--	.32	.07	.07	.27	.00	.34	.04	.66	.06
FEB. 21-22	3.5	.1	.45	.45	.11	.13	.09	--	.20	--	.65	.08
APR. 12...	3.8	.2	.13	.39	.08	.06	.04	.07	.12	.13	.25	.05
MAY 24-25	4.2	.2	.11	.15	.04	.09	.17	.06	.21	.15	.32	.03

DATE	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	TEMPER- ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 14...	--	99	.13	321	64	0	19	.4	12.0	3.3	--
DEC. 14-15	.01	152	.21	33.7	110	13	19	.5	--	2.5	4.5
FEB. 21-22	.02	130	.18	163	89	0	16	.4	--	2.3	3.0
APR. 12...	.03	148	.20	58.7	110	4	17	.4	17.5	2.0	1.0
MAY 24-25	.01	160	.22	13.0	120	0	17	.4	--	5.7	1.0

## RUSSIAN RIVER BASIN

451

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	--	--	15.5	-- 15.0	11.5	-- 11.0	--	--	-- 11.5	--	12.0	-- 11.5
2	--	--	16.0	-- 15.0	11.5	-- 11.0	--	8.0	-- 8.5	--	12.5	-- 11.0
3	--	--	16.0	-- 15.5	12.0	-- 10.5	--	7.5	-- 9.5	--	12.0	-- 10.0
4	--	--	16.5	-- 15.0	11.0	-- 9.5	--	10.5	-- 9.5	--	11.5	-- 9.0
5	--	--	15.5	-- 13.0	10.0	-- 9.0	--	5.0	--	--	11.5	-- 9.0
6	--	--	15.0	-- 12.5	9.0	-- 7.5	--	7.5	-- 10.0	--	11.0	-- 9.5
7	--	--	14.5	-- 13.0	8.5	-- 7.0	--	10.5	-- 11.5	--	11.5	-- 9.0
8	--	--	13.0	-- 11.0	7.0	-- 5.5	--	6.5	--	--	13.0	-- 10.0
9	--	--	13.0	-- 12.0	5.5	-- 4.5	--	8.5	-- 12.0	--	13.5	-- 10.0
10	--	--	13.5	-- 11.5	5.5	-- 5.0	--	9.5	-- 10.5	--	13.0	-- 10.5
11	--	--	13.0	-- 11.0	5.0	-- 4.0	--	9.5	-- 9.5	--	12.5	-- 9.5
12	--	--	12.5	-- 10.5	6.0	-- 5.0	--	--	-- 10.0	--	12.0	-- 9.0
13	17.0	-- 16.0	12.5	-- 11.0	--	--	--	--	-- 11.5	--	12.5	-- 8.5
14	17.0	-- 16.0	13.0	-- 12.0	--	--	--	--	-- 10.5	--	12.5	-- 8.0
15	16.5	-- 15.0	13.0	-- 12.5	6.5	-- 5.5	--	12.0	--	--	13.5	-- 9.0
16	16.0	-- 15.0	12.5	-- 11.5	6.5	-- 5.5	--	12.0	-- 8.0	--	12.0	-- 10.0
17	17.0	-- 15.5	12.5	-- 10.5	9.5	-- 6.5	--	10.5	--	--	11.0	-- 9.0
18	17.5	-- 15.0	12.5	-- 11.0	10.0	-- 9.5	--	10.5	-- 9.5	--	12.5	-- 8.0
19	17.0	-- 16.0	12.5	-- 11.0	11.5	-- 10.0	--	8.5	--	--	11.0	-- 9.0
20	18.0	-- 15.5	12.5	-- 10.5	12.0	-- 11.0	--	8.0	-- 9.5	--	11.0	-- 8.5
21	17.0	-- 16.0	12.0	-- 10.5	12.5	-- 12.0	--	11.5	--	--	11.0	-- 9.0
22	17.5	-- 16.0	12.0	-- 10.5	12.5	-- 11.5	--	12.0	-- 12.5	-- 9.5	13.0	-- 8.0
23	18.0	-- 16.5	11.5	-- 9.5	12.0	-- 11.5	--	6.5	-- 12.5	-- 11.0	14.0	-- 8.5
24	18.0	-- 16.0	11.5	-- 10.0	12.0	-- 11.0	--	9.5	-- 12.5	-- 11.0	14.0	-- 9.5
25	17.5	-- 15.5	11.5	-- 10.5	11.0	-- 9.5	--	--	-- 12.5	-- 11.5	13.5	-- 11.0
26	17.0	-- 15.0	11.5	-- 10.5	11.0	-- 9.0	--	8.5	-- 12.0	-- 11.5	15.5	-- 10.5
27	17.0	-- 15.0	11.5	-- 11.0	11.0	-- 10.0	--	9.5	-- 12.0	-- 11.5	14.5	-- 10.5
28	17.0	-- 15.0	11.5	-- 10.5	10.5	-- 9.5	--	6.0	-- 12.0	-- 11.5	14.5	-- 9.5
29	17.0	-- 14.5	12.0	-- 11.5	--	--	--	8.5	--	--	13.0	-- 10.5
30	16.0	-- 14.0	12.0	-- 10.5	-- 7.5	--	--	10.5	--	--	13.0	-- 10.5
31	16.0	-- 14.0	--	--	-- 8.0	--	--	9.5	--	--	14.5	-- 10.0
MONTH	--	--	16.5	-- 9.5	12.5	-- 4.0	--	--	--	--	15.5	-- 8.0
DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	-- 14.5	--	19.5	-- 14.0	22.0	-- 17.5	22.0	-- 19.0	24.0	-- 20.0	--	--
2	-- 8.5	--	19.0	-- 14.5	22.0	-- 17.0	22.5	-- 19.5	24.0	-- 20.0	--	--
3	--	--	19.5	-- 14.5	22.5	-- 17.5	23.0	-- 18.5	24.0	-- 19.5	--	--
4	-- 11.0	--	18.5	-- 14.0	23.0	-- 17.5	23.0	-- 19.5	24.0	-- 19.0	--	--
5	--	--	20.0	-- 13.5	23.0	-- 18.0	23.0	-- 19.5	24.0	-- 19.5	--	--
6	-- 16.5	--	20.0	-- 14.0	23.5	-- 18.0	23.0	-- 19.0	21.5	-- 20.0	--	--
7	-- 20.0	--	19.5	-- 14.5	23.5	-- 18.5	23.0	-- 19.0	21.5	-- 20.0	--	--
8	--	--	20.0	-- 14.0	24.0	-- 19.0	23.0	-- 19.0	21.5	-- 19.5	--	--
9	-- 18.0	--	20.5	-- 15.0	23.5	-- 19.0	23.0	-- 19.5	21.5	-- 19.0	--	--
10	--	--	21.5	-- 15.5	22.5	-- 18.0	23.0	-- 19.5	22.0	-- 19.0	--	--
11	-- 12.0	--	21.5	-- 15.5	22.0	-- 17.5	23.0	-- 20.0	22.0	-- 19.0	--	--
12	18.0	-- 15.0	22.0	-- 16.0	23.0	-- 17.5	23.0	-- 19.5	21.5	-- 19.5	--	--
13	15.5	-- 13.5	21.5	-- 16.5	21.5	-- 18.0	23.0	-- 19.5	22.0	-- 19.0	--	--
14	18.0	-- 12.0	21.5	-- 17.0	21.5	-- 16.5	22.0	-- 19.0	22.0	-- 19.0	--	--
15	17.5	-- 13.0	21.5	-- 16.5	21.5	-- 16.5	22.0	-- 19.5	22.0	-- 19.0	--	--
16	15.5	-- 13.5	22.5	-- 17.0	22.0	-- 17.5	22.0	-- 19.0	21.0	-- 18.5	--	--
17	17.0	-- 13.0	22.5	-- 17.0	21.5	-- 17.0	21.5	-- 19.0	22.5	-- 18.5	--	--
18	16.5	-- 11.5	22.5	-- 17.5	22.0	-- 17.0	21.0	-- 19.0	23.5	-- 17.0	--	--
19	17.0	-- 12.0	22.0	-- 17.5	23.0	-- 17.5	21.5	-- 19.0	24.0	-- 16.5	--	--
20	17.0	-- 12.0	21.5	-- 16.5	23.0	-- 18.0	22.5	-- 18.5	--	--	--	--
21	18.0	-- 12.0	21.0	-- 16.5	22.5	-- 18.5	23.0	-- 18.0	--	--	--	--
22	18.5	-- 13.0	21.0	-- 16.0	22.5	-- 18.5	22.5	-- 18.5	--	--	--	--
23	19.0	-- 13.0	21.0	-- 16.0	20.0	-- 18.5	22.5	-- 18.5	--	--	--	--
24	19.5	-- 14.0	18.5	-- 17.0	22.5	-- 18.0	23.0	-- 19.0	--	--	--	--
25	20.0	-- 14.5	21.0	-- 16.0	23.0	-- 19.0	24.5	-- 19.5	--	--	--	--
26	20.0	-- 15.0	21.0	-- 16.0	23.5	-- 19.5	26.0	-- 20.0	--	--	--	--
27	20.0	-- 15.0	22.0	-- 16.5	22.5	-- 20.0	24.0	-- 20.5	--	--	--	--
28	19.5	-- 15.0	23.0	-- 17.5	23.0	-- 19.5	23.5	-- 20.5	--	--	--	--
29	19.5	-- 14.0	23.0	-- 18.0	22.5	-- 19.0	24.0	-- 20.0	--	--	--	--
30	19.5	-- 14.0	21.0	-- 18.5	22.0	-- 19.0	24.0	-- 20.0	--	--	--	--
31	--	--	21.0	-- 17.5	--	--	25.0	-- 20.0	--	--	--	--
MONTH	--	--	23.0	-- 13.5	24.0	-- 16.5	26.0	-- 18.0	--	--	--	--

## RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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	0	0	0	8.8	3	.07	65	5	.88
2	0	0	0	9.8	3	.08	63	7	1.2
3	0	0	0	20	3	.16	64	9	1.69
4	0	0	0	74	15	3.0	90	9	2.2
5	0	0	0	46	10	1.2	73	12	2.4
6	0	0	0	36	6	.58	338	298	308
7	0	0	0	230	56	35	221	35	21
8	0	0	0	160	30	13	181	21	10
9	0	0	0	100	10	2.7	137	7	2.6
10	0	0	0	200	80	43	120	8	2.6
11	0	0	0	330	272	242	105	6	1.7
12	0	0	0	140	45	17	96	6	1.6
13	4.5	30	.36	2400	1240	8040	90	5	1.2
14	35	56	5.3	1720	644	4360	83	3	.67
15	330	224	200	1350	321	1450	82	4	.89
16	145	95	37	1190	240	771	403	289	703
17	58	27	4.2	564	78	119	3570	2470	28100
18	43	14	1.6	394	68	72	1840	594	3280
19	36	12	1.2	334	44	40	1650	450	2000
20	28	10	.76	259	33	23	983	90	239
21	22	6	.36	197	16	8.5	713	37	71
22	18	5	.24	161	8	3.5	900	150	365
23	16	5	.22	133	9	3.2	677	85	155
24	14	4	.15	113	10	3.1	631	128	218
25	12	3	.10	100	9	2.4	472	51	65
26	11	3	.09	90	5	1.2	382	35	36
27	11	3	.09	83	4	.90	339	29	27
28	10	2	.05	78	6	1.3	300	24	19
29	9.4	2	.05	73	34	6.7	246	21	14
30	8.8	2	.05	68	43	7.8	214	20	12
31	8.6	2	.05	--	--	--	188	19	9.6
TOTAL	820.3	--	251.87	10661.6	--	15271.39	15316	--	35671.23

DAY	JANUARY			FEBRUARY			MARCH		
	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	168	18	8.2	994	110	295	1380	228	850
2	155	12	5.0	895	100	242	1160	220	689
3	144	21	8.2	862	100	233	1130	190	580
4	131	18	6.4	2870	1510	16000	1090	156	459
5	120	10	3.2	2550	1100	7570	950	172	441
6	113	18	5.5	2240	440	2660	1260	511	1840
7	106	22	6.3	3240	800	7000	1040	156	438
8	544	465	1230	2100	438	2440	1020	158	435
9	4850	2700	42400	1850	273	1610	865	120	280
10	2230	1680	10100	2860	750	5790	777	95	199
11	7670	3130	83200	2350	568	3600	701	71	134
12	12200	4440	157000	1850	318	1590	608	62	102
13	4020	2500	27100	1630	300	1320	526	58	82
14	2230	1320	7950	1740	644	3170	467	49	62
15	2180	940	5530	1440	435	1690	417	34	38
16	10700	4030	141000	1180	146	465	381	22	23
17	4490	1360	16500	988	142	379	354	19	18
18	8250	2940	69400	840	82	186	324	24	21
19	3710	1670	16700	715	80	154	640	256	584
20	2190	720	4260	600	44	71	786	190	443
21	1830	490	2420	498	38	51	705	181	365
22	1420	310	1190	427	40	46	612	105	174
23	1200	285	923	378	40	41	526	56	80
24	1120	120	363	1730	941	5410	474	37	47
25	1120	128	387	2220	669	4520	435	27	32
26	961	90	234	2030	456	2860	405	20	22
27	796	68	146	2180	420	2470	369	19	19
28	755	75	153	1860	240	1210	333	15	13
29	1120	95	287	--	--	--	308	12	10
30	1350	170	620	--	--	--	336	13	12
31	1130	162	494	--	--	--	321	15	13
TOTAL	79003	--	589629.8	45117	--	73113	20700	--	8555

## RUSSIAN RIVER BASIN

453

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued-

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	273	17	13	69	5	.93	22	2	.12
2	252	14	9.5	58	7	1.3	22	3	.18
3	234	12	7.6	67	4	.72	22	4	.24
4	221	10	6.0	66	2	.36	21	6	.34
5	210	10	5.7	65	2	.35	20	3	.16
6	197	10	5.3	62	2	.33	18	3	.15
7	185	7	3.5	59	2	.32	16	5	.22
8	175	8	3.8	56	2	.30	14	7	.26
9	167	9	4.1	54	2	.29	13	7	.25
10	159	8	3.4	53	3	.43	12	9	.29
11	151	8	3.3	49	4	.53	12	15	.49
12	142	19	7.3	47	3	.38	12	14	.45
13	152	18	7.4	45	3	.36	12	14	.45
14	140	18	6.8	42	2	.23	12	13	.42
15	132	19	6.8	41	3	.33	11	12	.36
16	126	20	6.8	40	4	.43	11	10	.30
17	123	19	6.3	39	4	.42	11	8	.24
18	117	18	5.7	37	3	.30	11	7	.21
19	112	11	3.3	35	4	.38	9.6	7	.18
20	98	4	1.1	34	5	.46	8.7	7	.16
21	94	5	1.3	31	6	.50	7.9	7	.15
22	98	6	1.6	31	5	.42	6.9	7	.13
23	92	7	1.7	31	4	.33	7.2	7	.14
24	89	6	1.4	29	3	.23	7.7	8	.17
25	86	5	1.2	31	2	.17	7.4	10	.20
26	82	5	1.1	30	5	.41	7.2	7	.14
27	79	5	1.1	29	7	.55	6.0	5	.08
28	77	4	.83	27	10	.73	6.4	6	.10
29	77	3	.62	25	8	.54	6.8	8	.15
30	73	3	.59	23	6	.37	7.2	6	.12
31	--	--	--	20	4	.22	--	--	--
TOTAL	4213	--	128.14	1335	--	13.62	361.0	--	6.85

DAY	JULY			AUGUST			SEPTEMBER		
	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	7.0	4	.08	.13	10	0			
2	6.9	4	.07	.11	10	0			
3	6.9	12	.22	.10	8	0			
4	4.4	13	.15	.09	6	0			
5	3.1	7	.06	.07	5	0			
6	2.6	3	.02	.07	5	0			
7	2.3	4	.02	.06	4	0			
8	1.9	5	.03	.05	3	0			
9	1.8	5	.02	.04	2	0			
10	1.6	5	.02	.04	2	0			
11	1.5	10	.04	.03	2	0			
12	1.4	6	.02	.03	2	0			
13	1.3	4	.01	.02	1	0			
14	1.2	4	.01	.02	1	0			
15	1.1	4	.01	.02	1	0			
16	1.0	10	.03	.02	1	0			
17	.95	4	.01	.01	1	0			
18	.86	2	0	.01	1	0			
19	.82	2	0	.01	1	0			
20	.75	3	.01	0	0	0			
21	.64	3	.01	0	0	0			
22	.55	2	0	0	0	0			
23	.47	2	0	0	0	0			
24	.42	3	0	0	0	0			
25	.36	12	.01	0	0	0			
26	.31	11	.01	0	0	0			
27	.27	10	.01	0	0	0			
28	.23	10	.01	0	0	0			
29	.20	10	.01	0	0	0			
30	.17	10	0	0	0	0			
31	.15	10	0	0	0	0			
TOTAL	53.15	--	.89	.93	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

177580.98  
722641.79

## RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV. 14...	1300	12.0	1920	330	1710	41	55	68	81	89
DEC. 06...	0950	7.0	406	456	500	52	72	84	92	96
18...	1030	9.5	1530	303	1250	33	44	57	70	81
JAN. 09...	0930	8.5	6750	3650	66500	23	32	44	57	71
11...	1340	9.5	7910	1950	41600	--	--	--	--	--
11...	1355	9.5	8080	2290	50000	31	32	42	58	73
16...	1140	12.0	13100	3730	132000	18	26	36	47	61
18...	0945	10.5	12100	4120	135000	18	25	37	47	60
FEB. 10...	0915	10.5	3020	759	6190	21	34	45	58	67
24...	1130	12.5	2250	1220	7410	21	31	42	53	59
26...	1005	10.5	1890	601	3070	21	35	46	58	64
MAR. 06...	1245	10.5	1340	674	2440	35	49	62	76	87

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV. 14...	--	96	--	98	--	99	--	99	--	100
DEC. 06...	--	97	--	99	--	100	--	--	--	--
18...	91	--	99	--	99	--	100	--	--	--
JAN. 09...	82	--	93	--	99	--	100	--	--	--
11...	80	--	90	--	99	--	100	--	--	--
11...	87	--	92	--	97	--	99	--	100	--
16...	74	--	92	--	99	--	100	--	--	--
18...	74	--	91	--	99	--	100	--	--	--
FEB. 10...	82	--	94	--	100	--	--	--	--	--
24...	79	--	90	--	100	--	--	--	--	--
26...	86	--	98	--	100	--	--	--	--	--
MAR. 06...	--	92	--	95	--	99	--	100	--	--



## RUSSIAN RIVER BASIN

455

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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.								
05...	1505	--	1	.00	13	45	91	100
05...	1510	--	1	.00	--	--	--	--
05...	1515	--	1	.00	--	--	--	1
05...	1520	--	1	.00	--	--	--	--
05...	1525	--	1	.00	--	--	1	1
05...	1530	--	1	.00	11	36	82	96
FEB.								
22...	1300	11.0	1	423	9	33	91	98
22...	1305	11.0	1	423	--	--	--	1
22...	1310	11.0	1	423	--	1	1	1
22...	1315	11.0	1	423	1	2	4	5
22...	1320	11.0	1	423	1	3	12	16
APR.								
12...	1350	17.5	1	144	14	61	98	100
12...	1355	17.5	1	144	--	--	1	3
12...	1400	17.5	1	144	--	1	2	3
12...	1405	17.5	1	144	--	--	1	1
12...	1410	17.5	1	144	2	4	9	9
12...	1415	17.5	1	144	6	29	79	98

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.							
05...	--	--	--	--	--	--	--
05...	--	--	1	2	7	14	100
05...	1	5	42	73	92	100	--
05...	1	2	3	9	19	53	100
05...	1	4	13	39	72	100	--
05...	97	97	98	98	100	--	--
FEB.							
22...	99	99	100	--	--	--	--
22...	6	15	30	59	90	100	--
22...	2	4	6	10	17	35	100
22...	5	9	13	18	29	43	100
22...	17	24	37	52	79	100	--
APR.							
12...	--	--	--	--	--	--	--
12...	4	12	35	69	100	--	--
12...	4	33	63	92	100	--	--
12...	1	2	3	3	9	13	100
12...	10	15	28	40	52	77	100
12...	98	99	100	--	--	--	--

## RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PENDED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
NOV.			
13...	--	3060	160
14...	1140	514	140
14...	1245	359	120
14...	1300	330	120
14...	1650	234	80
15...	0845	206	85
15...	1420	348	90
16...	--	171	80
17...	--	74	35
18...	--	82	40
19...	--	36	15
20...	--	29	20
21...	--	15	6
22...	1020	8	6
22...	1105	8	8
22...	1110	9	6
23...	--	10	5
24...	--	10	5
25...	--	10	5
26...	--	4	4
27...	--	4	5
28...	--	8	6
29...	--	58	35
30...	--	70	40
DEC.			
01...	1330	3	3
01...	1635	4	6
02...	--	8	7
03...	--	4	2
04...	--	9	8
05...	--	12	8
06...	--	456	330
07...	--	28	15
08...	--	24	10
09...	--	9	4
10...	--	6	3
11...	--	6	2
12...	--	5	2
13...	--	3	3
14...	0850	3	2
14...	1730	4	2
15...	0850	3	2
15...	1610	117	80
16...	--	430	140
18...	1010	303	110
18...	1040	488	120
19...	--	39	35
21...	--	178	50
22...	--	93	40
23...	--	150	50
24...	--	49	35
25...	--	35	15
26...	--	24	10
28...	--	21	9
30...	--	20	7
31...	--	22	10
JAN.			
01...	--	11	8
02...	--	12	4
03...	--	24	4
04...	--	19	5
05...	--	8	5
06...	--	19	1
07...	--	22	3
09...	--	3650	560
11...	1340	1950	400
11...	1400	2290	350
11...	1405	3150	400
11...	1415	2730	320
11...	1600	4520	480
12...	--	4000	420
13...	--	2470	310
15...	--	805	220
16...	1140	3730	510
16...	1410	2960	390
18...	--	4120	480
20...	--	760	140
21...	--	458	110
23...	--	203	70
25...	--	118	65
26...	--	82	40
27...	--	65	35
28...	--	77	35
29...	--	89	35
30...	--	167	80
31...	--	172	75

DATE	TIME	SUS- PENDED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
FEB.			
01...	--	96	45
02...	--	106	45
03...	--	94	30
05...	--	879	190
07...	--	789	170
08...	--	470	120
10...	--	759	190
12...	--	273	100
13...	--	278	100
14...	--	952	190
16...	--	144	65
17...	--	170	70
18...	--	74	35
19...	--	84	35
20...	--	40	20
21...	1130	38	20
21...	1230	42	15
21...	1240	33	20
22...	1345	45	15
22...	1755	30	15
23...	--	39	10
24...	--	1220	200
25...	--	656	160
26...	--	601	160
27...	--	320	100
28...	--	244	100
MAR.			
01...	--	228	85
02...	--	234	95
03...	--	158	60
04...	--	142	60
05...	0830	174	60
05...	1230	180	50
06...	--	674	230
07...	--	136	50
08...	--	148	50
09...	--	122	35
10...	--	99	35
11...	--	72	30
12...	--	60	30
13...	--	59	15
14...	--	42	20
15...	--	31	10
16...	--	22	10
17...	--	18	9
18...	--	25	10
19...	--	156	60
20...	--	173	65
21...	--	95	45
22...	--	112	45
23...	--	56	20
24...	--	42	20
25...	--	28	15
26...	--	19	15
27...	--	20	10
28...	--	15	9
29...	--	12	7
30...	--	8	9
31...	--	14	9
APR.			
01...	--	18	9
02...	--	14	7
04...	--	10	6
06...	--	10	4
07...	--	3	3
09...	--	9	2
11...	--	8	2
12...	1330	16	8
12...	1340	29	10
13...	--	16	15
16...	--	20	10
18...	--	18	10
20...	--	4	4
23...	--	7	3
25...	--	5	2
27...	--	5	2
30...	--	3	2
MAY			
02...	--	7	2
04...	--	2	2
14...	--	2	1
16...	--	4	1
18...	--	3	1
21...	--	6	2
24...	--	3	2
25...	--	2	2
28...	--	10	2
31...	--	4	2

## RUSSIAN RIVER BASIN

457

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PEN- DED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
JUNE			
01...	--	2	3
04...	--	6	2
06...	--	3	2
08...	--	7	3
11...	--	15	4
13...	--	14	2
15...	--	12	3
18...	--	7	3
20...	--	7	2
22...	--	7	3
25...	--	10	2
27...	--	5	2
29...	--	8	2
JULY			
02...	--	4	2
04...	--	13	2
06...	--	3	1
08...	--	5	2
10...	--	5	3
11...	--	10	3
13...	--	4	3
15...	--	4	3
16...	--	10	3
17...	--	4	2
18...	--	2	2
20...	--	3	2
23...	--	2	2
24...	--	3	2
25...	--	12	2
28...	--	10	3
30...	--	10	3

## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.

LOCATION.--Lat 38°30'03", long 122°55'59", in NW¼NE¼ sec.35, T.8 N., R.10 W., Sonoma County, at gaging station 0.6 mile downstream from Hobson Creek, and 3.4 miles east of Guerneville.

DRAINAGE AREA.--1,340 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1965, water years 1966-67, 1969-73 (partial-record station). Published as "at Guerneville" in 1961-65.

Water temperatures: January 1964 to September 1973.

Sediment records: Water years 1966-67 (partial-record station), April 1967 to September 1973.

Turbidity: Water years 1967-73 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 29.5°C June 26.

Sediment concentrations: Maximum daily, 1,490 mg/l Jan. 12; minimum daily, 3 mg/l Aug. 27.

Sediment discharge: Maximum daily, 236,000 tons Jan. 12; minimum daily, 1.7 tons Aug. 27.

Period of record:

Water temperatures: Maximum, 29.5°C June 26, 1973; minimum (1965-71), 4.5°C Dec. 15, 1967, Jan. 12, 1968.

Sediment concentrations (1969-73): Maximum daily, 1,630 mg/l Jan. 24, 1970; minimum daily, 3 mg/l on several days in 1972 and 1973.

Sediment discharge (1969-73): Maximum daily, 305,000 tons Jan. 24, 1970; minimum daily, 1.3 tons Sept. 23, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Oct. 7 to Apr. 15, recorder malfunction; May 26 to June 15, July 4-6, recorder stopped. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CAC03 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
NOV. 15...	1430	5990	15	--	8.6	--	77	0	63	--	7.8	--
JAN. 18...	1130	46400	8.8	--	4.1	--	51	0	42	--	5.4	--
MAR. 14...	1130	3190	18	--	8.4	--	121	0	99	--	7.0	--
AUG. 17...	0900	212	24	13	9.4	1.2	138	0	113	12	7.6	0.32
SEP. 12...	1030	235	23	--	12	--	143	0	117	--	7.4	--

DATE	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)
NOV. 15...	--	--	70	7	--	--	175	7.2	11.5	85	8.0	--
JAN. 18...	--	--	47	5	--	--	99	7.3	10.0	750	10.4	--
MAR. 14...	--	--	104	5	--	--	218	7.3	10.0	25	10.7	--
AUG. 17...	146	0.20	113	0	15	0.4	235	7.8	20.5	2	8.0	300
SEP. 12...	143	0.19	117	0	--	--	210	7.8	20.5	2	8.2	400

## RUSSIAN RIVER BASIN

459

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	21.5	19.5	--	--	--	--	--	--	--	10.0	--	--
2	20.5	19.5	--	--	--	--	--	--	--	--	--	11.0
3	19.5	19.0	--	15.5	--	--	--	--	--	--	--	--
4	19.0	18.5	--	--	--	10.5	--	--	--	10.5	--	--
5	19.0	18.5	--	--	--	--	--	--	--	10.0	--	--
6	20.0	18.0	--	--	--	--	--	--	--	10.5	--	11.0
7	--	--	--	--	--	--	--	--	--	10.0	--	11.0
8	--	--	--	--	--	--	--	--	--	10.0	--	--
9	--	18.0	--	--	--	--	--	--	--	10.5	--	--
10	--	--	--	12.5	--	--	--	--	--	10.0	--	--
11	--	--	--	12.0	--	--	--	--	--	11.0	--	--
12	--	--	--	--	--	--	11.0	--	--	10.5	--	--
13	--	--	--	--	--	--	--	--	--	10.5	--	--
14	--	17.0	--	--	--	--	--	--	--	11.0	--	12.0
15	--	--	--	--	--	--	--	--	--	10.5	--	12.0
16	--	--	--	--	--	--	--	--	--	10.5	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--
18	--	17.0	--	--	--	7.0	--	--	--	10.5	--	12.5
19	--	17.0	--	--	--	9.5	--	9.5	--	10.5	--	12.0
20	--	--	--	11.0	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	10.5	--	11.5
23	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	--	12.0
25	--	--	--	13.5	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	9.5	--	--	12.0	--	14.0
27	--	--	--	--	--	--	9.0	--	--	12.0	--	--
28	--	--	--	--	--	--	--	--	--	12.0	--	13.5
29	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	9.0	--	--	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--
DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	--	14.0	18.5	16.5	--	--	26.0	21.5	25.5	21.5	23.0	20.0
2	--	--	18.0	16.5	--	--	26.0	21.0	25.5	21.0	22.0	20.0
3	--	--	18.5	16.0	--	--	26.5	21.5	26.0	21.0	22.0	19.0
4	--	--	18.5	17.0	--	23.5	--	--	25.5	21.0	21.5	20.0
5	--	--	18.0	19.5	--	--	--	--	25.0	21.0	21.0	19.5
6	--	--	19.0	16.5	--	--	--	--	23.5	21.0	22.5	19.5
7	--	--	19.0	17.0	--	--	26.5	22.0	24.0	21.0	23.0	20.0
8	--	--	19.5	17.0	--	--	27.0	21.5	23.0	21.0	23.5	20.0
9	--	--	20.0	17.0	--	--	27.5	22.5	24.0	20.5	23.5	20.0
10	--	--	21.0	18.0	--	--	28.0	22.5	24.5	20.5	23.0	20.5
11	--	--	21.5	19.0	--	24.0	27.0	22.5	25.0	21.0	21.5	20.0
12	--	--	21.5	19.0	--	--	26.5	22.0	25.0	21.0	22.0	19.5
13	--	--	21.5	19.0	--	--	25.0	22.0	25.0	21.0	22.0	19.5
14	--	--	21.0	19.5	--	23.5	25.5	21.0	23.0	21.0	21.5	19.0
15	--	--	21.5	19.0	--	21.0	25.0	21.0	23.0	21.0	21.5	19.5
16	16.0	15.0	22.5	19.5	23.0	21.0	25.0	20.5	22.5	20.5	20.5	19.5
17	16.0	14.5	23.5	20.5	23.5	20.0	25.0	20.0	24.0	20.5	21.5	18.5
18	15.5	14.0	23.5	21.0	25.5	20.0	25.0	20.5	23.0	20.5	20.5	19.0
19	15.5	14.0	23.0	20.5	27.0	21.0	24.0	24.0	23.0	20.0	21.0	20.0
20	16.0	13.5	22.0	20.0	27.5	21.5	24.0	20.0	23.5	20.0	21.5	20.0
21	17.0	15.0	22.0	20.0	26.5	22.0	24.5	20.0	24.0	20.0	21.5	20.0
22	17.5	16.0	21.5	20.0	26.0	22.5	25.5	21.0	23.5	19.5	21.5	20.0
23	18.5	16.0	21.0	19.5	25.0	22.0	25.5	21.0	23.0	19.5	20.5	19.5
24	19.5	16.5	21.0	19.5	25.0	21.0	25.5	21.0	23.5	19.0	20.0	19.0
25	20.0	18.0	21.0	18.5	27.5	22.0	26.5	21.5	23.0	20.0	20.5	17.5
26	20.0	18.0	--	--	29.5	23.5	26.5	22.5	23.0	20.0	20.5	19.0
27	19.5	17.5	--	--	29.0	24.5	26.0	23.0	23.0	20.0	21.0	19.5
28	19.0	17.0	--	24.0	28.0	23.5	25.5	22.5	22.5	19.5	21.0	19.5
29	18.5	16.0	--	--	27.5	23.0	25.5	22.0	23.5	20.0	20.5	20.0
30	19.0	16.5	--	--	26.0	22.0	25.5	21.5	23.0	20.0	20.5	19.5
31	--	--	--	22.0	--	--	26.0	21.5	23.0	20.5	--	--
MONTH	--	--	23.5	15.5	--	--	28.0	20.0	26.0	19.0	23.5	17.5

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	240	5	3.2	303	8	6.5	667	6	11
2	248	6	4.0	308	7	5.8	644	6	10
3	242	7	4.6	331	8	7.1	634	6	10
4	326	18	22	424	12	14	736	16	32
5	264	9	6.4	468	9	11	721	12	23
6	230	6	3.7	421	7	8.0	1630	37	183
7	250	5	3.4	508	11	15	1850	40	200
8	260	5	3.5	768	21	44	1560	27	114
9	283	5	3.8	743	19	38	1270	18	62
10	313	5	4.2	926	30	75	1050	10	28
11	367	6	5.9	2150	155	956	923	8	20
12	464	11	14	2120	110	630	834	7	16
13	528	12	17	4360	475	9600	796	7	15
14	548	15	22	14300	1150	46100	754	7	14
15	744	22	44	7480	430	9300	725	5	9.8
16	788	26	55	9090	1000	26000	954	30	104
17	580	24	38	5010	190	2570	14200	1250	58300
18	460	22	27	3270	70	618	14100	559	23000
19	403	21	23	2570	65	451	11900	348	11300
20	370	19	19	2220	80	480	7690	140	3030
21	349	18	17	1810	68	332	5430	126	1860
22	337	17	15	1510	51	208	6030	201	3320
23	328	15	13	1300	37	130	5730	140	2170
24	322	13	11	1130	23	70	4390	95	1130
25	313	13	11	1010	12	33	3760	88	893
26	308	13	11	918	8	20	3060	84	694
27	308	12	10	851	7	16	2640	62	442
28	305	11	9.1	792	7	15	2530	44	301
29	305	10	8.2	741	7	14	2220	38	228
30	303	10	8.2	697	7	13	1930	34	177
31	303	9	7.4	--	--	--	1740	32	150
TOTAL	11389	--	444.6	68529	--	97780.4	103098	--	107846.8
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	1570	29	123	5330	118	1700	8860	260	6220
2	1450	25	98	4390	95	1130	6860	160	2960
3	1370	21	78	3940	82	872	6570	190	3370
4	1280	17	59	6930	614	16300	7860	370	7850
5	1190	12	39	16200	1290	58200	6190	168	2810
6	1120	12	36	12600	440	15000	7280	276	5960
7	1060	11	31	21400	1060	60800	7170	218	4220
8	1770	220	1930	14600	412	17100	6500	150	2630
9	16500	1410	79200	10200	209	5860	5320	133	1910
10	21400	908	62300	18000	575	27900	4670	120	1510
11	23000	910	68900	17700	169	8420	4470	88	1060
12	59000	1490	236000	12100	139	4570	3990	62	668
13	46800	550	69500	12400	328	11400	3570	52	501
14	23400	400	25300	11900	218	7450	3180	60	515
15	15000	380	15400	11700	220	6950	2860	67	517
16	47200	1430	201000	9850	190	5050	2620	68	481
17	45900	719	92900	8170	170	3750	2450	63	417
18	44600	1160	146000	7070	146	2790	2290	56	346
19	36500	669	68800	6330	138	2360	2480	90	678
20	20400	450	24800	5750	140	2170	4860	332	4450
21	16100	340	14800	5150	150	2090	4560	153	1910
22	12700	280	9600	3880	160	1680	5000	162	2240
23	10400	245	6880	3050	130	1070	4000	80	864
24	8420	120	2730	8120	460	13200	3540	64	612
25	7280	250	4910	13200	607	21700	3190	96	827
26	5540	200	2990	11200	474	14800	2940	51	405
27	4540	160	1960	13000	402	14200	2730	46	339
28	3930	130	1380	12600	398	13500	2520	41	279
29	4820	148	2070	--	--	--	2280	37	228
30	8280	319	7190	--	--	--	2100	35	198
31	7000	179	3380	--	--	--	2590	60	420
TOTAL	499520	--	1150384	286760	--	342012	135500	--	57395

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JULY			AUGUST			SEPTEMBER		
	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	189	7	3.6	202	14	7.6	186	.8	4.0
2	190	8	4.1	208	10	5.6	187	10	5.0
3	202	8	4.4	214	8	4.6	191	10	5.2
4	193	8	4.2	215	8	4.6	191	10	5.2
5	190	9	4.6	213	7	4.0	192	10	5.2
6	178	10	4.8	208	5	2.8	191	10	5.2
7	170	8	3.7	204	4	2.2	190	10	5.1
8	170	6	2.8	202	4	2.2	186	8	4.0
9	177	7	3.3	202	5	2.7	183	7	3.5
10	205	8	4.4	205	5	2.8	177	4	1.9
11	203	7	3.8	199	6	3.2	186	4	2.0
12	205	6	3.3	201	6	3.3	244	5	3.3
13	208	7	3.9	209	6	3.4	244	5	3.3
14	215	7	4.1	206	6	3.3	221	5	3.0
15	224	8	4.8	197	6	3.2	197	6	3.2
16	233	13	8.2	203	7	3.8	199	6	3.2
17	237	7	4.5	212	8	4.6	225	8	4.9
18	230	4	2.5	205	8	4.4	224	10	6.0
19	221	4	2.4	208	9	5.1	206	8	4.4
20	214	5	2.9	214	12	6.9	206	5	2.8
21	199	5	2.7	217	10	5.9	213	8	4.6
22	192	9	4.7	214	6	3.5	199	7	3.8
23	185	8	4.0	208	4	2.2	212	29	17
24	180	7	3.4	198	6	3.2	200	19	10
25	169	8	3.7	189	5	2.6	194	13	6.8
26	151	8	3.3	197	4	2.1	184	9	4.5
27	142	9	3.5	208	3	1.7	162	10	4.4
28	166	9	4.0	210	4	2.3	150	10	4.1
29	186	9	4.5	203	4	2.2	149	12	4.8
30	200	9	4.9	195	5	2.6	168	15	6.8
31	201	16	8.7	191	6	3.1	--	--	--
TOTAL	6025	--	127.7	6357	--	111.7	5857	--	147.2

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)  
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

1171176  
1759423.9

## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
NOV.									
11...	1310	12.0	2400	220	1430	67	81	88	95
13...	1300	--	3600	667	6480	43	55	65	79
20...	1345	--	2200	98	582	--	--	--	--
DEC.									
17...	0950	--	12200	1390	45800	23	24	42	53
17...	1305	--	18200	2070	102000	30	40	52	65
23...	0920	--	6150	142	2360	--	--	--	--
26...	1455	9.5	3000	86	697	--	--	--	--
JAN.									
09...	0825	--	8980	554	13400	31	44	53	64
10...	0837	--	26000	921	64700	36	46	58	71
12...	1200	--	62400	1520	256000	39	52	65	81
12...	1710	--	62400	969	163000	44	59	73	86
12...	2030	--	61400	982	163000	41	53	65	76
12...	2240	11.0	60300	784	128000	45	61	74	87
13...	1202	--	47300	505	64500	46	59	72	84
16...	1455	--	58200	1980	311000	38	51	66	81
19...	1500	9.5	33400	592	53400	33	39	50	64
31...	1230	9.0	6560	169	2990	34	44	55	65
FEB.									
07...	1755	10.0	22900	784	48500	33	44	55	69
09...	1740	10.5	9360	165	4170	--	--	--	--
11...	1735	11.0	16400	102	4520	--	--	--	--
MAR.									
12...	1735	--	3870	59	616	--	--	--	--
22...	1810	11.5	4620	113	1410	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV.								
11...	98	--	99	--	99	--	100	--
13...	91	--	97	--	99	--	100	--
20...	--	--	96	--	99	--	100	--
DEC.								
17...	67	78	--	92	--	100	--	--
17...	79	88	--	95	--	100	--	--
23...	--	--	100	--	--	--	--	--
26...	--	--	96	--	99	--	100	--
JAN.								
09...	76	85	--	96	--	100	--	--
10...	82	90	--	96	--	100	--	--
12...	91	97	--	99	--	100	--	--
12...	94	98	--	99	--	100	--	--
12...	82	85	--	96	--	100	--	--
12...	95	97	--	99	--	100	--	--
13...	92	95	--	100	--	--	--	--
16...	94	98	--	100	--	--	--	--
19...	76	89	--	97	--	100	--	--
31...	74	--	77	--	87	--	98	100
FEB.								
07...	81	--	87	--	95	--	99	100
09...	--	--	96	--	100	--	--	--
11...	--	--	85	--	100	--	--	--
MAR.								
14...	--	--	99	--	100	--	--	--
22...	--	--	98	--	99	--	100	--



## RUSSIAN RIVER BASIN

463

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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.								
06...	1150	18.5	1	230	--	--	1	2
06...	1155	18.5	1	230	--	1	2	4
06...	1200	18.5	1	230	--	--	--	1
06...	1205	18.5	1	230	--	1	2	4
06...	1210	18.5	1	230	3	7	29	75
JAN.								
31...	1300	9.0	1	6510	--	1	2	2
31...	1305	9.0	1	6510	--	--	2	4
31...	1310	9.0	1	6510	--	3	94	100
31...	1315	9.0	1	6510	1	18	96	97
31...	1320	9.0	1	6510	7	38	98	100
31...	1325	9.0	1	6510	12	46	93	97
31...	1330	9.0	1	6510	32	79	94	98
APR.								
16...	1245	15.5	5	932	--	1	3	7

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.							
06...	3	3	4	10	31	100	--
06...	6	8	11	18	34	59	100
06...	3	9	17	31	64	100	--
06...	8	14	23	41	70	100	--
06...	90	94	96	98	100	--	--
JAN.							
31...	4	20	51	78	100	--	--
31...	11	43	82	99	100	--	--
31...	--	--	--	--	--	--	--
31...	98	98	99	100	--	--	--
31...	--	--	--	--	--	--	--
31...	99	100	--	--	--	--	--
31...	99	100	--	--	--	--	--
APR.							
16...	11	19	30	48	83	100	--

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PENDE D- SEDIM- ENT (MG/L)	TUR- BID- ITY (JTU)
OCT.			
03...	--	7	5
04...	1600	6	4
04...	1800	61	50
05...	--	7	6
06...	1150	7	5
06...	1815	10	8
09...	--	6	6
14...	--	15	10
18...	--	22	15
19...	1135	20	10
19...	1545	20	10
21...	--	18	8
23...	--	14	7
27...	--	12	5
NOV.			
03...	1200	8	6
03...	1210	9	6
11...	--	220	100
13...	--	677	150
15...	1930	360	100
15...	2330	587	150
18...	--	68	35
20...	1345	98	45
20...	1415	96	50
25...	1400	11	9
25...	1500	9	8
DEC.			
04...	--	14	9
10...	--	9	7
13...	--	7	7
14...	--	7	6
15...	--	5	6
16...	--	10	8
17...	0950	1390	200
17...	1305	2070	300
18...	0730	617	250
18...	0800	607	250
19...	--	402	150
21...	--	162	75

## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PENDE SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)	DATE	TIME	SUS- PENDE SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
DEC.				MAR.			
22...	--	224	10	02...	1310	152	65
23...	--	142	70	02...	1330	232	65
24...	--	91	90	02...	1350	178	60
26...	1435	91	55	05...	--	136	45
26...	1445	91	50	06...	--	484	150
26...	1455	86	45	07...	--	134	60
27...	--	56	30	08...	--	131	55
30...	--	33	20	09...	--	150	45
31...	--	33	15	12...	--	59	35
JAN.				14...	--	64	25
01...	--	30	15	16...	--	68	20
02...	--	24	15	18...	--	56	15
03...	--	21	15	19...	--	102	30
04...	--	17	15	22...	--	113	70
05...	--	12	10	24...	--	62	30
06...	--	13	10	26...	--	50	25
07...	--	11	8	28...	--	40	20
08...	1035	16	10	APR.			
08...	1415	78	25	01...	--	60	35
08...	1730	298	90	16...	--	23	9
09...	0825	554	130	MAY			
09...	1703	1950	360	13...	--	19	6
10...	0837	921	330	15...	--	10	5
10...	1730	537	130	18...	--	10	3
11...	0838	459	125	21...	--	32	8
11...	1806	1640	320	25...	1330	18	9
12...	1200	1520	520	25...	1730	12	7
12...	1355	1440	500	28...	--	19	6
12...	1600	1160	490	31...	--	14	5
12...	1710	969	400	JUNE			
12...	1810	1030	380	04...	--	10	5
12...	2030	982	390	09...	--	12	5
12...	2200	876	380	11...	--	11	5
12...	2240	784	350	14...	--	7	4
13...	--	505	230	15...	--	12	6
15...	--	386	110	20...	--	9	6
16...	1025	2060	460	22...	--	8	6
16...	1455	1980	550	25...	--	16	6
16...	1740	1970	600	27...	--	10	4
17...	--	699	320	29...	--	10	4
19...	1255	670	110	JULY			
19...	1430	519	200	03...	--	8	5
19...	1500	592	150	06...	1050	12	6
19...	1525	610	150	06...	1800	9	9
20...	1043	476	110	08...	--	6	6
20...	1805	417	110	10...	--	8	7
23...	--	245	100	12...	--	6	5
30...	--	358	110	16...	--	13	5
31...	1200	146	70	18...	--	4	4
31...	1230	169	65	20...	--	5	3
31...	1250	152	70	22...	--	9	4
FEB.				24...	--	7	5
01...	--	112	55	26...	--	8	5
04...	0845	119	50	31...	--	16	6
04...	1800	1050	190	AUG.			
06...	0855	390	110	02...	--	8	4
06...	1700	382	110	07...	--	4	4
07...	--	784	170	11...	--	6	5
08...	--	309	100	15...	--	6	4
09...	--	165	90	17...	--	8	5
10...	--	715	120	20...	--	12	4
11...	--	102	95	23...	--	4	3
12...	--	204	80	24...	--	6	3
13...	--	202	75	27...	--	3	3
14...	--	310	100	29...	--	4	3
15...	--	181	180	31...	--	6	4
16...	--	191	85	SEP.			
18...	--	144	60	10...	--	4	4
19...	--	138	55	13...	--	5	5
22...	--	158	55	18...	--	10	7
26...	--	576	130	20...	--	5	5
27...	--	336	100	23...	--	29	15
28...	--	354	100	26...	--	9	8
				28...	--	10	6

## GARCIA RIVER BASIN

465

11467600 GARCIA RIVER NEAR POINT ARENA, CALIF.

LOCATION.--Lat 38°55'35", long 123°37'45", in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.3, T.12 N., R.16 W., Mendocino County, temperature recorder at gaging station on left bank, 0.9 mile downstream from North Fork, and 3.5 miles northeast of town of Point Arena.

DRAINAGE AREA.--98.5 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 22.0°C June 25; minimum, 5.0°C Dec. 11.

Period of record:

Water temperatures: Maximum (1963-73), 22.0°C June 22, 1964, Aug. 29, 1968, June 25, 1973; minimum, 5.0°C Dec. 14-16, 1967, Dec. 11, 1972.

REMARKS.--Recorder stopped Aug. 27-29.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	15.5	14.0	12.5	11.0	9.5	8.5	6.5	10.0	8.0	12.5	10.0
2	18.5	15.0	16.0	13.5	11.5	11.0	8.5	6.5	11.0	9.5	11.5	9.5
3	18.5	15.5	15.0	14.5	12.0	10.5	8.0	7.0	10.5	10.0	11.5	10.0
4	16.5	16.0	15.0	13.5	10.5	9.0	8.0	6.0	11.0	10.0	11.5	10.0
5	18.5	16.0	14.5	12.0	9.5	7.5	7.5	6.0	12.0	11.0	11.5	9.5
6	19.0	15.0	14.0	12.0	9.5	8.0	8.0	6.0	12.0	11.0	11.0	10.0
7	17.5	15.0	13.5	12.0	8.5	7.5	7.0	6.0	12.0	11.5	11.0	10.0
8	17.0	16.0	13.5	11.5	8.0	6.0	7.5	7.0	12.0	11.5	12.5	10.0
9	17.0	15.5	12.5	11.5	6.5	5.5	10.0	7.0	12.0	11.5	12.5	10.5
10	17.0	15.5	13.0	11.5	8.0	6.5	10.5	10.0	11.5	11.0	12.0	11.0
11	18.0	15.5	12.5	11.0	7.0	5.0	11.0	10.5	11.5	11.0	12.0	10.0
12	17.5	14.5	12.5	10.5	7.0	5.5	12.0	11.0	11.0	10.0	11.5	9.0
13	17.0	15.5	12.0	11.5	7.5	5.5	12.0	11.5	11.0	9.5	12.0	9.0
14	16.0	15.0	12.0	11.5	8.0	6.0	12.0	11.0	11.0	10.0	12.0	8.5
15	17.0	15.0	12.0	11.0	8.0	7.0	11.0	11.0	11.0	9.5	12.5	8.5
16	16.5	14.0	12.0	11.0	8.5	8.0	11.5	11.0	11.0	9.0	11.5	10.0
17	17.0	14.5	11.0	10.0	10.5	8.0	11.0	10.5	11.5	10.0	11.0	9.0
18	17.5	14.5	12.0	10.5	11.0	10.5	11.5	10.5	11.0	9.0	12.0	8.5
19	15.5	15.0	12.0	11.0	12.0	11.0	10.5	9.5	11.0	9.0	11.0	9.5
20	17.0	15.0	11.5	10.0	12.0	11.5	10.5	9.0	11.5	9.0	11.0	9.0
21	17.5	14.0	12.0	10.5	12.5	12.0	11.5	10.5	11.5	9.5	11.0	9.5
22	16.5	15.0	12.5	11.0	12.5	12.0	10.5	10.0	12.0	10.0	12.0	8.5
23	17.0	14.5	12.0	10.5	12.0	11.0	10.0	9.0	12.0	10.5	13.0	9.0
24	18.0	14.0	12.5	11.0	11.5	10.5	11.0	10.0	11.5	11.0	13.5	10.5
25	17.0	14.0	12.0	10.5	10.5	9.5	11.0	9.5	12.0	11.5	12.5	11.0
26	16.5	13.0	13.0	10.5	10.5	9.0	9.5	8.0	12.0	11.5	13.5	10.5
27	16.5	13.5	13.0	11.0	10.0	9.5	9.5	8.0	12.0	11.0	13.5	10.5
28	15.5	13.0	12.5	10.0	9.5	8.5	10.0	8.0	12.0	11.0	13.5	10.5
29	15.0	12.0	12.5	10.0	9.0	7.5	10.0	9.5	---	---	11.5	10.0
30	14.0	11.5	12.0	10.0	9.0	7.5	10.5	9.0	---	---	11.5	10.0
31	14.5	11.5	---	---	8.5	7.0	10.0	9.0	---	---	13.0	10.5
MONTH	19.0	11.5	16.0	10.0	12.5	5.0	12.0	6.0	12.0	8.0	13.5	8.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	9.5	17.0	12.5	18.5	13.0	19.0	14.5	19.5	15.0	19.5	14.0
2	13.5	9.5	16.5	12.5	19.0	14.5	19.0	14.5	20.0	15.5	19.5	14.5
3	14.5	9.5	17.5	12.5	18.5	14.5	19.0	14.0	20.0	15.5	19.0	15.0
4	15.5	10.5	16.0	13.5	19.0	15.0	19.0	14.0	20.0	15.5	19.0	15.0
5	16.0	11.5	17.5	12.5	19.5	14.5	20.0	14.0	20.0	15.5	18.5	15.5
6	16.0	12.5	17.5	12.5	19.5	15.0	19.5	16.0	20.0	16.0	19.0	14.5
7	16.0	12.0	17.5	13.5	20.0	14.5	19.0	14.5	20.0	14.5	19.0	15.0
8	16.5	12.0	18.0	12.5	20.0	15.0	19.5	14.5	18.5	14.5	19.0	14.5
9	15.5	12.0	18.0	13.0	19.0	15.0	19.5	14.5	20.0	16.0	20.0	15.0
10	17.5	13.0	18.0	13.0	18.0	14.0	19.5	15.0	19.5	15.5	19.0	15.0
11	17.5	12.5	18.0	12.5	18.5	14.0	18.5	14.5	18.5	15.0	18.0	16.0
12	16.5	13.0	18.0	13.0	19.5	15.0	20.0	14.5	18.0	15.0	17.5	15.0
13	15.0	12.5	18.5	13.0	17.5	14.5	20.0	15.0	19.5	15.0	18.5	15.0
14	14.5	12.0	18.5	13.5	18.5	13.0	20.0	15.5	19.0	15.5	19.0	15.0
15	16.0	12.0	19.0	13.0	18.0	13.5	18.0	16.0	19.0	15.0	19.5	15.0
16	14.5	12.5	18.5	14.0	18.0	15.5	17.5	15.5	19.0	15.0	18.5	14.5
17	15.5	12.0	18.5	14.0	18.5	14.0	19.0	15.5	18.0	14.5	19.0	15.0
18	14.5	11.0	19.0	14.5	19.0	14.0	17.5	15.0	18.5	14.0	19.0	15.0
19	15.5	11.5	18.0	14.0	19.5	14.5	19.0	15.5	18.5	13.5	17.5	16.5
20	16.0	11.0	18.0	13.5	21.5	14.5	19.5	15.5	18.5	14.5	19.5	16.5
21	17.0	11.5	18.0	13.0	19.5	15.5	19.5	15.0	18.5	14.5	19.5	16.0
22	16.0	12.0	18.0	14.0	20.0	16.0	19.0	15.5	18.5	13.0	17.0	15.5
23	16.5	11.5	18.0	14.0	18.0	15.5	19.0	14.5	18.5	14.5	19.5	16.0
24	17.5	12.0	18.5	15.0	20.5	14.5	19.0	14.0	18.5	15.0	18.5	16.5
25	18.5	12.5	18.0	14.0	22.0	16.0	19.5	14.5	18.5	14.5	19.0	15.0
26	18.5	13.5	18.0	13.0	21.5	17.0	20.5	15.0	19.0	14.0	19.0	15.0
27	17.5	13.5	19.0	13.5	21.0	16.5	20.5	15.5	---	---	19.5	15.0
28	16.5	12.5	20.0	14.0	20.0	16.0	20.0	16.0	---	---	19.5	15.0
29	16.5	12.0	19.0	15.0	19.0	15.0	20.0	16.0	---	---	19.0	15.0
30	17.0	12.0	17.5	15.0	19.0	14.5	20.0	15.5	19.0	15.0	18.0	15.0
31	---	---	15.5	14.0	---	---	19.5	15.5	18.0	15.0	---	---
MONTH	18.5	9.5	20.0	12.5	22.0	13.0	20.5	14.0	20.0	13.0	20.0	14.0

## NAVARRO RIVER BASIN

11468000 NAVARRO RIVER NEAR NAVARRO, CALIF.

LOCATION.--Lat 39°10'20", long 123°40'06", in SE $\frac{1}{4}$  sec.7, T.15 N., R.16 W., Mendocino County, at gaging station 2.9 miles downstream from North Fork, 5.2 miles upstream from mouth, and 6.8 miles west of Navarro.

DRAINAGE AREA.--303 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1959 to July 1965, water years 1966, 1973 (partial-record station).  
Water temperatures: October 1965 to September 1973.

EXTREMES.--Period of record:

Water temperatures: Maximum (1965-68, 1969-71), 25.0°C Aug. 20, June 20, 1967, June 5, Sept. 14, 15, 1971;  
minimum (1967-68, 1971-72), 5.5°C on several days in 1967 and 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Oct. 1-30, Nov. 7 to Mar. 14, Mar. 31 to Aug. 28, recorder malfunction. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA+MG) (MG/L)
NOV. 16...	0900	1050	7.9	77	0	63	5.1	65
JAN. 19...	0900	4740	--	--	--	--	--	--
MAR. 08...	0840	1770	--	--	--	--	--	--
MAY 24...	0725	54	--	--	--	--	--	--
JULY 12...	0750	15	--	--	--	--	--	--
SEP. 14...	0815	7.5	13	141	0	116	9.8	110

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
NOV. 16...	2	.4	155	7.4	10.5	230	10.2	100
JAN. 19...	--	--	110	7.2	9.0	340	10.9	--
MAR. 08...	--	--	146	7.2	9.0	55	10.3	--
MAY 24...	--	--	254	7.3	16.0	0	9.4	--
JULY 12...	--	--	266	7.3	16.0	1	8.2	--
SEP. 14...	0	.5	228	7.2	15.5	0	8.8	200

NAVARRO RIVER BASIN

467

11468000 NAVARRO RIVER NEAR NAVARRO, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT			NOV			DEC			JAN			FEB			MAR		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	--	--	--	12.0	--	11.5	--	--	--	--	--	--	--	--	--	--	11.5	--
2	--	--	--	13.5	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--
3	--	--	--	14.0	--	13.5	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	14.0	--	10.0	--	9.5	--	--	--	--	--	--	--	--	--	--
5	--	--	--	14.0	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	13.0	--	11.5	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	7.5	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13	--	15.5	--	--	--	--	--	--	--	--	--	--	9.5	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	15.5	--	--	--	--	--	--	--	--	--	--	--	--	--	11.0	--	9.0
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.5	--	10.5
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.5	--	9.5
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.5	--	8.5
19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.5	--	9.5
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	8.0
21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.0	--	8.0
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.0	--	7.5
23	--	--	--	--	--	--	--	--	--	--	--	--	10.5	--	--	10.5	--	8.5
24	--	--	--	--	--	--	--	--	--	8.5	--	--	--	--	--	11.0	--	9.0
25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.5	--	10.0
26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.0	--	10.5
27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.0	--	10.0
28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.0	--	10.0
29	--	--	--	--	11.0	--	--	--	--	--	--	--	--	--	--	10.5	--	10.0
30	--	--	--	--	11.0	--	--	--	--	--	--	--	--	--	--	10.0	--	9.5
31	12.0	--	11.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	10.0
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	10.5
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.0	--	10.0
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.0	--	10.5
5	--	--	--	--	--	--	--	--	--	22.0	--	--	--	--	--	16.5	--	12.0
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	10.5
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	11.5
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	10.0
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22.0	--	11.5
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.5	--	11.5
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.5	--	12.5
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.5	--	12.5
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.5	--	12.0
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	12.0
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	12.5
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	12.5
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.5	--	13.0
18	--	14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	13.5
19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.0	--	15.0
20	--	14.5	--	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	15.0
21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	14.5
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.5	--	14.0
23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.0	--	14.0
24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.0	--	14.0
25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.0	--	13.5
26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.5	--	12.5
27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.5	--	12.5
28	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	--	19.0	--	13.0
29	--	--	--	--	--	--	--	--	--	--	--	19.0	--	11.5	--	19.5	--	13.0
30	--	15.0	--	--	--	--	--	--	--	--	--	20.5	--	11.0	--	18.5	--	12.5
31	--	--	--	--	17.0	--	--	--	--	--	--	21.0	--	12.5	--	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22.0	--	10.0

## NOYO RIVER BASIN

11468500 NOYO RIVER NEAR FORT BRAGG, CALIF.

LOCATION.--Lat 39°25'42", long 123°44'12", in NE $\frac{1}{4}$  sec. 15, T.18 N., R.17 W., Mendocino County, temperature recorder at gaging station on right bank, 0.7 mile downstream from South Fork, and 3.5 miles east of Fort Bragg.

DRAINAGE AREA.--106 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1959 to September 1965, water year 1966 (partial-record station).  
Water temperatures: December 1965 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 22.5°C July 26; minimum, 3.5°C Dec. 13, 14.

Period of record:

Water temperatures: Maximum, 23.0°C July 10, 1970, July 14, 15, Aug. 21, 1972; minimum (1965-69, 1970-73), 2.0°C Dec. 17-21, 1965.

REMARKS.--Recorder stopped Sept. 1-30.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.5	11.0	9.0	9.0	7.5	6.0	5.5	8.5	7.5	11.0	10.0
2	17.0	15.0	12.5	10.5	9.5	9.0	6.5	5.0	9.5	8.0	10.5	9.0
3	17.5	15.0	13.0	12.5	10.0	8.5	6.0	5.0	9.5	9.0	10.0	9.0
4	17.5	16.5	13.0	12.0	8.5	6.0	5.5	4.5	10.0	9.0	10.0	9.5
5	18.0	16.0	12.0	10.0	7.0	6.0	5.0	4.5	11.0	10.0	10.0	9.0
6	16.5	14.5	11.0	9.0	7.5	7.0	4.5	4.0	11.0	10.5	10.5	10.0
7	16.0	14.5	11.0	10.5	7.5	6.5	5.5	4.5	11.0	10.5	10.0	9.5
8	16.0	14.5	10.5	10.0	6.5	5.5	6.0	5.0	11.5	11.0	10.5	9.5
9	16.5	14.5	10.5	9.5	5.5	5.0	9.0	6.0	11.0	10.5	11.0	10.0
10	16.0	14.5	11.0	10.0	6.0	5.0	9.5	9.0	11.0	10.5	11.5	10.5
11	16.0	14.5	11.0	10.0	5.0	4.0	10.5	9.5	10.5	10.5	11.0	10.0
12	15.0	14.5	10.5	9.5	5.0	4.0	11.0	10.5	10.5	9.5	10.5	9.5
13	15.0	13.5	11.0	10.0	4.5	3.5	11.0	10.5	9.5	9.0	10.5	9.0
14	14.5	12.5	11.0	10.0	4.5	3.5	11.0	9.5	10.5	9.5	10.0	8.0
15	14.5	13.0	10.0	9.5	5.5	4.0	9.5	9.0	10.5	10.0	10.5	8.0
16	14.5	12.5	10.5	9.5	7.0	5.5	9.0	8.5	10.5	10.5	11.0	9.5
17	15.0	13.0	10.0	9.0	10.0	7.0	9.5	8.0	10.5	10.5	10.5	8.0
18	14.5	12.5	10.0	9.0	10.5	10.0	8.5	7.5	10.5	10.0	10.0	7.5
19	14.0	13.5	10.5	9.5	10.5	10.0	8.5	7.0	10.0	9.5	9.5	9.0
20	14.5	13.0	10.0	9.0	11.0	10.5	8.5	6.5	10.0	9.0	9.5	8.5
21	14.5	12.5	10.0	9.0	11.5	11.0	9.0	7.0	11.0	10.0	10.0	8.5
22	14.5	13.5	10.0	9.0	11.5	11.0	9.0	7.0	11.0	9.5	10.0	8.0
23	15.0	13.5	9.5	8.5	11.0	10.5	9.5	7.5	10.0	9.5	10.5	8.5
24	15.5	12.5	10.0	9.0	10.5	10.0	9.0	9.0	11.0	9.5	11.0	9.0
25	14.0	11.0	10.0	9.0	10.0	9.5	9.5	8.0	11.5	10.5	11.5	9.5
26	13.5	11.0	10.0	8.5	9.5	9.0	8.0	7.0	11.0	11.0	12.0	10.0
27	13.0	10.0	10.0	9.0	9.5	8.5	7.5	7.0	11.0	10.5	11.5	9.5
28	12.5	9.5	10.0	8.0	8.5	7.5	8.0	7.0	11.0	10.0	11.5	8.5
29	11.0	7.0	10.0	9.0	7.5	6.5	8.5	7.5	---	---	10.5	8.0
30	10.0	6.0	9.0	8.0	7.0	6.0	8.5	8.0	---	---	10.5	9.5
31	10.5	6.0	---	---	6.5	6.0	8.0	7.0	---	---	10.5	9.5
MONTH	18.0	6.0	13.0	8.0	11.5	3.5	11.0	4.0	11.5	7.5	12.0	7.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.0	14.0	10.0	18.0	13.5	19.5	14.0	20.0	15.0	---	---
2	10.0	8.5	14.0	11.5	18.0	13.0	19.0	14.0	20.0	15.0	---	---
3	11.0	8.5	15.0	11.0	18.5	13.5	19.5	13.5	20.5	14.5	---	---
4	11.5	8.5	14.0	11.0	19.5	14.0	20.5	14.5	20.5	14.5	---	---
5	12.5	9.0	15.0	10.0	19.0	14.5	19.5	15.0	19.5	15.0	---	---
6	13.0	10.0	15.0	11.0	20.0	14.5	19.0	14.0	17.0	15.5	---	---
7	13.0	9.5	15.5	12.5	20.5	14.5	19.0	14.0	18.0	15.0	---	---
8	13.5	10.0	16.0	11.0	21.0	15.5	19.5	13.5	18.0	15.0	---	---
9	13.0	10.0	16.5	13.0	19.0	15.5	20.0	14.0	17.0	15.0	---	---
10	14.5	11.0	17.0	12.0	18.5	14.0	20.0	15.0	20.0	15.5	---	---
11	14.5	10.5	17.0	11.5	17.5	14.5	19.0	15.0	17.0	15.0	---	---
12	13.0	12.0	17.5	12.0	18.5	15.0	21.5	14.0	17.0	14.5	---	---
13	12.0	11.0	16.5	12.0	18.0	15.0	19.5	15.5	20.5	14.5	---	---
14	12.5	11.0	18.0	12.0	18.0	14.0	19.0	14.5	18.0	16.0	---	---
15	13.5	11.0	18.0	12.5	20.0	14.0	19.0	14.0	17.0	16.0	---	---
16	12.0	11.0	17.0	13.5	16.5	15.0	19.5	13.5	18.0	15.0	---	---
17	13.5	10.5	19.0	13.5	18.0	14.0	18.0	13.0	17.0	15.0	---	---
18	11.5	9.0	18.0	14.0	18.0	13.0	19.0	13.0	17.0	15.0	---	---
19	13.0	9.0	17.0	13.5	19.5	13.0	19.0	12.0	17.5	15.0	---	---
20	13.0	9.0	17.0	13.0	21.0	14.5	18.0	12.0	17.0	15.0	---	---
21	13.5	9.0	17.0	12.0	20.5	15.0	18.0	12.5	20.0	14.0	---	---
22	13.5	10.0	17.0	13.5	19.0	16.5	18.0	12.0	19.5	14.5	---	---
23	14.0	10.0	17.5	14.5	20.0	16.0	18.0	12.0	19.5	13.0	---	---
24	14.5	10.0	16.0	14.5	21.0	15.0	20.0	13.0	18.5	15.0	---	---
25	15.0	10.5	16.5	13.5	22.0	16.0	20.5	14.0	19.0	14.0	---	---
26	16.0	11.5	17.0	12.0	22.0	18.5	22.5	14.5	18.0	14.5	---	---
27	15.5	11.5	17.5	12.0	22.0	17.5	20.0	16.0	19.5	15.0	---	---
28	14.5	10.5	19.5	13.5	20.0	16.5	20.0	16.0	20.5	13.0	---	---
29	14.5	10.5	19.5	15.0	19.0	15.5	19.5	16.0	20.0	15.0	---	---
30	14.5	10.5	18.0	15.5	19.0	14.0	20.5	15.5	18.5	14.5	---	---
31	---	---	16.5	14.0	---	---	19.5	15.0	18.0	16.0	---	---
MONTH	16.0	8.5	19.5	10.0	22.0	13.0	22.5	12.0	20.5	13.0	---	---

## TENMILE RIVER BASIN

469

11468600 MIDDLE FORK TENMILE RIVER NEAR FORT BRAGG, CALIF.

LOCATION.--Lat 39°34'22", long 123°41'57", in NE¼NE¼ sec.25, T.20 N., R.17 W., Mendocino County, temperature recorder at gaging station on right bank, 0.8 mile upstream from confluence with North Fork Tenmile River, and 10 miles northeast of Fort Bragg.

DRAINAGE AREA.--32.9 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1964 to September 1973 (discontinued).

EXTREMES.--1972-73:

Water temperatures: Maximum, 21.0°C June 26; minimum, 4.5°C Dec. 11, 14, Jan. 5, 6.

Period of record:

Water temperatures: Maximum, 21.0°C July 14, 1972, June 26, 1973; minimum (1964-65, 1966-73), 3.5°C Dec. 2, 1969.

REMARKS.--Recorder malfunction Jan. 29 to Mar. 1; recorder stopped Aug. 28 to Sept. 30.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	14.0	11.0	9.5	9.5	8.0	7.0	6.0	---	---	---	---
2	15.5	13.5	12.5	11.0	10.5	9.5	8.0	6.0	---	---	10.0	9.0
3	15.0	13.5	13.0	12.0	10.5	9.0	6.5	5.5	---	---	10.0	9.0
4	15.0	14.5	14.0	13.0	9.5	7.0	5.5	5.0	---	---	10.0	9.0
5	16.0	14.0	13.0	11.5	7.5	6.5	5.0	4.5	---	---	10.0	8.5
6	15.5	13.0	12.0	10.5	8.5	7.0	5.5	4.5	---	---	10.0	9.5
7	15.0	13.0	12.5	12.0	8.5	7.5	5.5	5.0	---	---	10.0	9.0
8	15.0	13.5	12.5	11.5	7.5	6.5	7.5	5.5	---	---	10.5	9.5
9	15.5	14.5	12.0	11.0	7.0	5.5	10.0	7.5	---	---	11.0	10.0
10	15.0	14.0	12.5	12.0	7.0	5.5	11.0	10.0	---	---	11.0	10.5
11	15.5	14.5	12.5	11.5	5.5	4.5	11.0	10.5	---	---	10.5	9.0
12	15.5	14.5	12.0	11.0	6.0	5.0	11.0	11.0	---	---	10.0	8.5
13	15.5	14.0	12.0	11.5	5.5	5.0	11.0	10.5	---	---	10.0	8.5
14	14.5	14.0	12.0	11.0	5.5	4.5	10.5	10.0	---	---	9.5	7.5
15	15.0	13.5	11.5	10.5	6.5	5.0	10.5	10.0	---	---	10.0	8.0
16	14.5	13.0	12.0	11.0	8.5	6.5	10.5	10.0	---	---	10.5	9.5
17	15.5	13.5	11.0	10.0	10.5	8.5	10.0	9.5	---	---	10.0	8.5
18	15.0	13.0	11.5	10.5	11.5	10.5	10.0	9.0	---	---	10.0	7.5
19	14.5	14.0	12.0	11.0	12.0	11.5	9.0	7.5	---	---	10.0	9.0
20	15.0	14.0	11.5	10.0	11.5	11.0	9.5	7.5	---	---	9.0	8.5
21	15.0	13.0	11.5	10.0	12.0	11.5	10.0	8.5	---	---	10.0	8.5
22	14.5	14.0	11.5	10.5	11.5	11.0	9.0	8.5	---	---	10.0	8.0
23	15.0	14.0	11.0	10.0	11.5	10.5	9.5	8.0	---	---	10.5	8.5
24	15.0	13.5	11.0	10.5	11.0	10.5	9.5	9.0	---	---	11.0	8.5
25	14.0	12.0	10.5	9.5	10.5	10.0	9.5	7.0	---	---	11.0	9.5
26	13.0	11.5	11.0	9.5	10.5	9.5	7.5	6.5	---	---	11.5	10.0
27	13.0	11.0	11.0	10.0	10.0	9.0	8.0	6.5	---	---	10.5	8.5
28	12.0	10.0	10.0	9.5	9.0	8.0	8.0	7.5	---	---	10.5	8.5
29	11.0	8.5	10.5	9.0	8.5	7.5	---	---	---	---	10.0	8.0
30	10.0	7.5	9.5	8.0	8.0	7.0	---	---	---	---	10.0	8.5
31	10.0	7.5	---	---	8.0	6.5	---	---	---	---	10.5	9.5
MONTH	16.0	7.5	14.0	8.0	12.0	4.5	11.0	4.5	---	---	11.5	7.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	8.5	14.0	10.0	17.0	13.0	18.0	14.0	17.5	15.0	---	---
2	10.5	8.5	13.5	11.5	17.0	13.0	17.5	14.0	17.5	15.0	---	---
3	11.0	8.5	14.0	10.5	17.0	13.0	18.0	13.5	17.5	14.0	---	---
4	11.5	8.5	13.0	11.5	17.0	13.5	19.0	14.5	17.5	14.5	---	---
5	12.0	9.0	14.0	10.0	17.5	14.0	18.5	15.0	17.0	14.5	---	---
6	12.5	10.0	14.5	11.0	18.0	14.0	18.0	14.0	17.0	15.5	---	---
7	12.0	9.5	14.5	12.0	19.0	14.0	18.0	14.0	17.0	15.0	---	---
8	12.5	9.5	15.0	10.5	20.0	15.0	18.0	14.0	16.5	15.0	---	---
9	12.0	10.0	15.5	12.5	18.5	15.0	18.5	14.0	16.5	15.0	---	---
10	13.5	11.0	16.0	12.0	17.5	14.0	19.0	14.5	18.0	15.5	---	---
11	13.0	10.5	16.0	11.5	17.0	13.5	18.0	15.0	17.0	15.0	---	---
12	12.5	11.5	16.0	12.0	17.0	14.0	18.5	14.5	17.0	14.5	---	---
13	11.5	10.5	15.5	12.0	16.5	13.0	17.5	15.0	17.0	14.5	---	---
14	11.5	10.0	16.5	12.0	16.0	12.5	17.5	15.5	17.0	14.5	---	---
15	12.0	10.0	16.5	12.5	16.0	12.0	17.0	16.0	17.0	14.0	---	---
16	11.5	10.5	16.5	13.0	15.5	13.5	17.0	15.5	17.0	13.5	---	---
17	11.5	10.0	17.0	13.0	16.5	13.0	17.5	15.5	16.0	13.0	---	---
18	11.0	8.5	17.5	13.5	17.0	12.5	17.0	15.5	16.5	13.5	---	---
19	12.0	9.0	17.0	13.5	18.0	13.0	16.5	15.5	16.0	12.5	---	---
20	12.5	8.5	16.5	12.5	19.0	14.5	16.0	15.0	16.0	12.5	---	---
21	13.5	9.0	16.0	12.5	18.5	15.0	17.5	13.5	15.5	12.5	---	---
22	13.5	10.0	16.5	13.0	17.5	16.0	17.5	14.0	15.5	12.5	---	---
23	14.0	10.0	16.0	14.0	18.5	15.5	17.0	13.0	15.5	12.0	---	---
24	14.5	10.5	15.0	14.0	18.5	14.5	17.5	14.0	16.0	13.5	---	---
25	15.0	11.0	15.5	13.0	20.0	15.5	18.0	14.0	16.5	14.0	---	---
26	15.5	11.5	15.5	12.0	21.0	17.5	19.0	15.0	16.0	14.0	---	---
27	15.0	12.0	16.5	11.5	20.0	16.5	17.5	15.5	16.0	14.5	---	---
28	14.5	11.0	18.0	13.5	19.0	16.0	17.5	15.5	---	---	---	---
29	14.0	10.0	18.0	15.0	18.5	15.0	17.5	15.0	---	---	---	---
30	14.0	9.5	16.5	14.0	18.0	14.0	17.5	15.0	---	---	---	---
31	---	---	15.0	13.5	---	---	17.5	15.0	---	---	---	---
MONTH	15.5	8.5	18.0	10.0	21.0	12.0	19.0	13.0	18.0	12.0	---	---

## MATTOLE RIVER BASIN

11469000 MATTOLE RIVER NEAR PETROLIA, CALIF.

LOCATION.--Lat 40°18'42", long 124°15'48", in NW $\frac{1}{4}$  sec.11, T.2 S., R.2 W., Humboldt County, at gaging station, 0.2 mile upstream from Clear Creek, 1.5 miles southeast of Petrolia, and 1.7 miles upstream from North Fork.

DRAINAGE AREA.--240 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1959 to September 1968, water years 1969-73 (partial-record station).  
Water temperatures: November 1965 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 28.0°C June 26; minimum, 3.0°C Dec. 11.

Period of record:

Water temperatures: Maximum (1966-68, 1969-70, 1971-73), 28.0°C July 13, 14, 1972, June 26, 1973; minimum (1966-70, 1971-73), 3.0°C Jan. 9, 1969, Dec. 11, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Nov. 8-10, recorder malfunction; Apr. 20, Apr. 30 to May 4, May 13-15, recorder stopped.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LILITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA,MG) (MG/L)
FEB. 06...	1245	5230	5.3	50	0	41	4.0	40
AUG. 07...	1350	30	8.4	108	0	89	4.0	101

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
FEB. 06...	0	.4	105	7.2	10.5	130	10.8	0
AUG. 07...	12	.4	227	8.1	23.0	0	12.7	100



11469000 MATTOLE RIVER NEAR PETROLIA, CALIF.--Continued  
 TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	17.5	12.5	11.5	9.5	8.0	8.0	7.0	9.0	7.5	11.5	9.0
2	21.0	16.5	14.5	12.0	10.0	9.0	8.0	7.0	9.5	8.5	11.5	8.5
3	20.5	16.5	14.5	13.5	10.5	9.0	8.5	6.5	9.5	9.0	10.0	8.5
4	18.5	17.0	14.0	12.5	9.0	6.5	7.0	5.5	9.5	9.0	10.5	9.5
5	21.0	17.0	13.0	11.5	7.0	6.0	7.0	5.5	10.5	9.5	10.5	9.0
6	20.5	16.0	11.5	11.0	7.0	6.5	7.5	6.0	10.5	10.0	10.5	9.0
7	20.0	16.0	12.0	10.5	7.0	5.5	7.0	6.0	11.0	9.5	9.5	9.0
8	19.0	16.5	---	---	6.0	3.5	8.0	6.5	10.5	10.0	11.5	9.0
9	19.0	17.5	---	---	4.5	3.5	9.5	8.0	10.5	10.0	11.5	10.0
10	18.0	17.0	---	---	5.0	3.5	10.0	9.5	10.0	9.5	11.5	10.5
11	17.0	16.0	10.5	9.5	4.5	3.0	11.0	10.0	10.5	9.5	11.0	9.5
12	17.0	15.5	10.0	9.5	5.0	4.0	11.5	11.0	10.0	9.0	10.5	9.5
13	18.0	15.5	10.0	9.5	6.0	4.5	11.5	10.5	10.0	9.0	10.5	9.5
14	17.5	16.0	10.0	9.5	5.0	4.0	11.0	10.5	10.5	9.5	11.0	9.0
15	18.0	16.0	10.0	9.0	7.0	5.0	10.5	10.0	10.5	9.0	11.5	8.5
16	16.5	16.0	10.0	9.0	10.0	7.0	10.0	9.5	11.0	9.0	10.5	10.0
17	18.0	15.0	9.5	8.5	11.0	10.0	10.0	9.5	10.5	9.0	10.5	8.5
18	17.5	14.0	10.5	9.0	12.0	10.5	10.0	9.5	10.0	8.5	10.5	8.5
19	17.5	15.0	11.0	9.5	12.0	11.5	9.5	8.5	10.0	8.0	9.5	8.5
20	17.0	13.5	10.0	9.0	12.5	11.5	8.5	8.0	9.5	8.0	9.5	8.5
21	17.5	13.5	10.5	9.5	12.5	12.0	9.5	8.5	10.0	8.0	10.5	8.5
22	16.0	14.0	10.5	9.5	12.0	11.5	9.0	8.0	10.0	8.5	10.5	8.0
23	17.5	13.5	10.5	9.0	11.5	11.0	8.0	7.5	10.0	9.0	11.5	8.5
24	17.5	13.5	10.0	9.0	11.0	10.5	9.0	8.5	10.5	10.0	12.0	9.5
25	16.5	12.5	10.0	8.5	11.0	10.0	9.0	7.5	10.5	10.0	13.0	10.5
26	16.0	13.5	10.5	9.5	10.0	9.5	7.5	7.0	11.0	10.5	12.0	10.5
27	14.5	11.5	10.5	9.0	10.0	9.5	7.5	6.5	11.5	10.0	11.5	9.5
28	13.0	11.0	10.0	8.0	9.5	9.0	8.0	6.5	10.5	9.5	11.5	9.5
29	13.0	10.5	10.0	8.5	9.0	8.0	8.5	8.0	---	---	12.0	10.0
30	12.5	9.5	9.5	8.0	9.0	7.5	8.5	7.5	---	---	11.5	11.0
31	12.5	9.5	---	---	8.5	7.0	9.0	8.5	---	---	12.0	11.0
MONTH	21.0	9.5	14.5	8.0	12.5	3.0	11.5	5.5	11.5	7.5	13.0	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	11.0	---	---	22.0	16.0	24.0	18.0	24.0	20.0	22.5	16.5
2	12.5	9.5	---	---	22.5	16.0	24.5	18.0	24.0	20.0	22.5	16.5
3	13.5	10.0	---	---	23.5	16.5	25.5	18.5	24.5	20.0	22.0	16.5
4	14.0	10.5	---	---	24.0	18.0	26.5	19.0	24.0	20.0	22.0	17.5
5	15.0	11.0	19.0	13.0	24.5	18.5	25.0	19.5	24.0	20.0	21.5	18.0
6	15.0	12.0	18.0	13.5	25.0	19.0	24.0	18.5	23.5	20.0	23.0	17.0
7	15.0	11.0	19.0	14.5	25.0	20.0	25.0	19.0	24.5	20.0	22.5	18.0
8	15.5	12.0	20.0	14.5	25.5	18.0	25.5	19.5	22.5	20.0	22.5	16.5
9	15.5	12.5	20.5	15.5	23.5	18.5	25.5	19.5	25.0	20.0	23.0	17.0
10	17.5	13.0	20.5	14.5	23.5	17.0	24.0	19.5	25.0	20.0	22.5	17.5
11	17.0	13.5	20.5	14.5	23.5	17.5	23.0	18.5	24.0	19.5	21.5	18.5
12	14.5	14.0	21.0	14.5	21.5	19.5	24.5	19.0	24.0	19.0	21.0	17.0
13	14.0	12.5	---	---	21.5	17.5	24.0	19.5	25.0	19.5	22.5	17.5
14	14.5	11.5	---	---	19.5	16.5	24.0	19.5	24.0	20.0	22.5	17.0
15	16.5	12.5	---	---	22.5	16.0	24.0	19.5	23.5	20.0	21.5	17.0
16	14.5	13.5	23.0	17.0	21.0	19.0	23.0	19.5	23.5	18.5	22.0	17.5
17	14.5	12.0	24.0	18.0	21.0	17.0	24.0	19.5	24.0	20.0	22.5	18.0
18	14.0	11.0	24.0	18.5	23.0	16.5	23.5	19.5	24.0	18.0	21.0	18.5
19	13.5	11.0	22.5	18.0	24.5	17.0	22.5	19.5	23.0	18.0	19.5	19.0
20	---	---	21.5	16.0	26.0	18.5	23.5	19.5	22.5	18.0	21.0	18.0
21	17.0	12.0	22.5	16.0	24.0	20.0	23.5	19.0	22.5	17.5	22.0	18.5
22	17.0	13.0	22.5	16.5	24.0	20.0	23.5	18.5	22.5	17.0	19.0	18.0
23	17.0	12.0	20.5	17.5	23.0	19.5	23.5	17.5	20.5	17.0	20.5	18.0
24	17.5	12.5	19.5	18.0	24.5	18.5	24.0	18.0	19.5	17.5	20.0	18.5
25	18.5	13.5	21.5	16.5	27.0	21.0	24.5	19.0	20.0	16.5	22.5	17.5
26	19.5	14.5	21.0	15.5	28.0	22.0	25.0	19.5	20.5	16.5	22.5	18.0
27	18.5	14.0	24.0	17.5	27.0	21.5	24.5	20.5	22.5	18.0	21.5	17.0
28	17.0	12.5	24.5	17.0	26.0	20.0	24.0	19.5	23.0	17.0	21.0	17.0
29	17.0	12.0	24.5	19.0	25.0	19.0	24.0	19.5	23.0	18.5	21.0	17.0
30	---	---	22.5	18.5	23.5	18.0	24.0	20.0	23.5	18.0	20.5	17.5
31	---	---	22.5	17.5	---	---	24.5	20.0	23.0	18.5	---	---
MONTH	19.5	9.5	---	---	28.0	16.0	26.5	17.5	25.0	16.5	23.0	16.5

## EEL RIVER BASIN

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CALIF.

LOCATION.--Lat 39°24'29", long 122°58'13", in SE¼ sec.15, T.18 N., R.10 W., Lake County, Mendocino National Forest, temperature recorder at gaging station, on left bank 0.4 mile upstream from Soda Creek, 0.7 mile downstream from Scott Dam, and 9.7 miles northeast of town of Potter Valley.

DRAINAGE AREA.--290 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1973.

Sediment records: Water years 1966-67 (partial-record station).

Turbidity: Water years 1966-67, 1969-71 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 20.0°C on several days during June and September.

Period of record:

Water temperatures: Maximum, 23.0°C on several days in 1967; minimum (1966-72), 4.5°C on several days in 1969.

REMARKS.--Recorder stopped Dec. 13 to Feb. 6.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	19.0	13.5	13.5	8.0	8.0	---	---	---	---	8.0	8.0
2	19.0	19.0	13.5	13.5	8.0	8.0	---	---	---	---	8.0	8.0
3	19.0	19.0	13.5	13.5	8.0	7.0	---	---	---	---	8.0	7.0
4	19.0	19.0	13.5	13.5	7.0	7.0	---	---	---	---	7.0	7.0
5	19.0	19.0	13.5	13.5	7.0	6.5	---	---	---	---	7.0	7.0
6	19.0	19.0	13.5	13.0	6.5	6.5	---	---	---	---	7.0	7.0
7	19.0	19.0	13.0	12.0	6.5	6.5	---	---	8.0	8.0	8.0	7.0
8	19.0	18.5	12.0	12.0	6.5	6.0	---	---	8.5	8.0	8.0	7.0
9	18.5	18.5	12.0	11.5	6.0	6.0	---	---	8.5	8.5	8.0	8.0
10	18.5	18.5	11.5	11.5	6.0	5.5	---	---	8.5	8.0	8.0	7.0
11	18.5	18.5	11.5	11.5	5.5	5.5	---	---	8.5	8.5	8.5	8.0
12	18.5	18.0	11.5	11.0	5.5	5.0	---	---	8.5	8.0	8.5	8.5
13	18.5	18.0	11.0	11.0	---	---	---	---	8.0	8.0	8.5	8.5
14	18.0	18.0	11.0	10.5	---	---	---	---	8.0	8.0	8.5	8.5
15	18.0	18.0	10.5	10.0	---	---	---	---	8.5	8.0	8.5	8.0
16	18.0	17.0	10.5	9.5	---	---	---	---	8.5	8.5	8.0	8.0
17	17.0	17.0	9.5	9.0	---	---	---	---	8.5	8.5	8.0	8.0
18	17.0	16.5	9.0	9.0	---	---	---	---	8.5	8.5	8.0	8.0
19	16.5	16.5	9.0	9.0	---	---	---	---	8.5	8.0	8.0	8.0
20	16.5	16.5	9.0	9.0	---	---	---	---	8.5	8.0	8.0	8.0
21	16.5	16.5	9.0	8.5	---	---	---	---	8.5	8.0	8.5	8.0
22	16.5	16.5	8.5	8.5	---	---	---	---	8.0	8.0	8.5	8.5
23	16.5	16.0	8.5	8.5	---	---	---	---	8.0	8.0	8.5	8.5
24	16.0	16.0	8.5	8.5	---	---	---	---	8.0	7.0	8.5	8.5
25	16.0	16.0	8.5	8.5	---	---	---	---	8.0	7.0	9.0	8.5
26	16.0	15.5	8.5	8.0	---	---	---	---	8.0	8.0	9.0	9.0
27	15.5	15.0	8.0	8.0	---	---	---	---	8.0	8.0	9.0	9.0
28	15.0	15.0	8.0	8.0	---	---	---	---	8.0	8.0	9.0	9.0
29	15.0	15.0	8.0	8.0	---	---	---	---	---	---	9.0	9.0
30	15.0	14.0	8.0	8.0	---	---	---	---	---	---	9.0	9.0
31	14.0	13.5	---	---	---	---	---	---	---	---	9.0	9.0
MONTH	19.0	13.5	13.5	8.0	---	---	---	---	8.5	7.0	9.0	7.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	9.0	11.5	11.5	16.0	15.5	19.0	18.5	16.5	16.0	18.5	18.5
2	9.5	9.0	11.5	11.5	16.5	15.5	19.0	18.5	16.5	16.0	18.5	18.0
3	9.5	9.5	12.0	11.5	16.5	15.5	19.0	18.5	16.5	16.0	18.5	18.0
4	10.0	9.5	11.5	11.5	16.5	15.5	19.0	18.5	16.5	16.0	18.5	18.5
5	10.0	9.5	12.0	11.5	16.5	15.5	19.0	18.5	16.0	15.5	19.0	18.5
6	10.0	9.5	12.0	11.5	16.5	15.5	19.0	18.5	16.5	15.5	19.5	19.0
7	10.0	10.0	11.5	11.5	17.0	16.0	19.0	18.5	16.5	16.0	20.0	19.5
8	10.5	10.0	12.0	11.5	17.0	16.5	19.0	18.5	16.5	16.0	20.0	20.0
9	10.5	10.0	13.0	12.0	17.0	16.5	18.5	18.0	16.5	16.0	20.0	20.0
10	10.5	10.5	13.0	12.0	17.0	16.5	18.5	18.0	16.5	16.0	20.0	20.0
11	10.5	10.5	13.0	12.0	17.0	16.5	18.5	18.0	16.5	16.0	20.0	20.0
12	11.0	10.5	13.0	12.0	18.0	17.0	19.0	18.0	17.0	16.0	20.0	20.0
13	11.0	10.0	14.0	13.0	17.0	17.0	19.0	18.0	17.0	16.0	20.0	20.0
14	10.0	10.0	14.0	13.5	18.0	17.0	19.0	18.0	16.5	16.0	20.0	20.0
15	10.0	9.5	14.0	13.5	18.0	17.0	19.0	18.0	17.0	16.0	20.0	20.0
16	10.0	9.5	14.0	13.5	18.0	17.0	18.5	17.0	17.0	16.0	20.0	20.0
17	11.0	10.0	14.5	13.5	18.0	17.0	18.5	17.0	17.0	16.5	20.0	20.0
18	11.0	10.5	14.5	14.0	18.5	18.0	18.5	18.0	17.0	16.5	20.0	20.0
19	11.0	11.0	15.0	14.5	18.5	18.0	18.5	18.0	17.0	16.5	20.0	20.0
20	11.5	11.0	15.0	14.5	18.5	18.0	18.5	18.0	17.0	16.5	20.0	20.0
21	11.5	11.5	15.0	14.5	18.5	18.0	18.5	18.0	17.0	16.5	20.0	20.0
22	11.5	11.5	15.0	14.5	18.5	18.0	18.0	17.0	17.0	17.0	19.5	19.5
23	11.5	11.5	15.0	14.5	19.0	18.5	18.0	17.0	17.0	17.0	19.5	19.5
24	11.5	11.5	14.5	14.5	19.0	18.5	18.0	17.0	17.0	17.0	19.5	19.5
25	11.5	11.5	15.5	14.5	19.5	18.5	18.0	17.0	17.0	17.0	19.5	19.5
26	11.5	11.5	15.5	15.0	19.5	19.0	18.0	17.0	18.5	17.0	19.5	19.5
27	11.5	11.5	15.5	15.0	19.5	19.0	17.0	16.5	18.5	18.0	19.5	19.0
28	11.5	11.5	15.5	15.0	20.0	19.0	17.0	16.5	18.5	18.0	19.5	19.0
29	11.5	11.5	16.0	15.0	20.0	19.0	17.0	17.0	18.5	18.0	19.0	19.0
30	11.5	11.5	15.5	15.0	19.5	19.0	17.0	17.0	18.5	18.0	19.0	19.0
31	---	---	16.0	15.5	---	---	17.0	16.5	18.5	18.0	---	---
MONTH	11.5	9.0	16.0	11.5	20.0	15.5	19.0	16.5	18.5	15.5	20.0	18.0

## 11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CALIF.

LOCATION.--Lat 39°21'42", long 123°07'38", in SW¼NW¼ sec.6, T.17 N., R.11 W., Mendocino County, temperature recorder at gaging station on right bank, 100 ft downstream from powerhouse of Pacific Gas and Electric Company, 1.8 miles southwest of Van Arsdale Dam, and 2.9 miles northwest of town of Potter Valley.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1965, water year 1966 (partial-record station). Published as "East Fork Russian River at Potter Valley" in 1952-59.

Water temperatures: March 1964 to September 1973.

Sediment records: March 1964 to May 1968.

Turbidity: Water years 1964-71 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 22.0°C on several days during July and September; minimum, 3.0°C Dec. 11, 12, 14.

Period of record:

Water temperatures (1964-65, 1966-73): Maximum (1967-73), 24.5°C Aug. 10-12, 1971; minimum, 3.0°C

Jan. 9, 10, 14, 15, Dec. 11, 12, 14, 1972.

REMARKS.--Recorder stopped Oct. 1-3, June 26 to July 2.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER-			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	14.0	13.0	8.0	6.5	5.5	4.0	6.5	5.5	8.5	7.5
2	---	---	14.5	13.5	8.0	7.5	5.5	4.5	6.5	6.0	8.5	7.5
3	---	---	14.0	13.5	8.0	7.5	5.5	4.5	6.5	6.5	8.0	7.5
4	20.0	17.5	14.5	13.5	8.0	7.0	5.5	4.5	7.0	6.5	8.0	7.5
5	20.0	17.0	13.5	12.5	7.0	6.0	5.0	3.5	7.0	7.0	8.5	7.0
6	20.0	16.5	13.5	12.0	7.0	6.0	5.0	4.0	7.0	7.0	8.5	7.0
7	19.0	16.5	13.5	12.5	7.0	6.0	4.5	3.5	8.0	7.0	8.5	7.5
8	19.0	16.5	13.0	11.5	6.0	4.5	4.5	3.5	8.0	7.5	9.0	7.0
9	19.0	17.5	12.5	12.0	5.0	3.5	4.5	4.0	7.5	7.5	9.5	8.0
10	18.0	17.0	13.0	12.0	5.0	3.5	5.5	5.0	7.5	7.0	9.0	7.5
11	18.0	17.0	12.5	11.5	4.5	3.0	5.5	5.5	8.0	7.5	9.0	7.5
12	18.0	17.0	12.0	10.5	4.0	3.0	6.0	5.5	7.5	7.5	8.5	7.0
13	17.5	16.5	12.0	11.0	4.5	3.5	6.5	6.0	7.5	6.5	9.0	7.5
14	17.0	16.0	11.0	10.0	4.5	3.0	6.5	6.0	8.0	7.5	9.0	6.5
15	17.0	16.0	11.0	10.5	5.0	4.0	6.5	6.0	8.0	7.0	9.5	6.5
16	17.0	16.0	11.0	10.0	5.0	4.0	8.5	6.5	8.0	7.0	9.0	7.0
17	17.0	15.5	10.5	9.0	6.5	4.5	6.5	6.5	8.0	7.0	8.0	7.0
18	17.0	15.0	9.5	9.0	7.5	6.5	7.5	6.5	8.0	6.5	9.5	6.5
19	17.0	14.5	9.5	9.0	8.0	7.5	7.0	7.0	8.0	6.5	8.0	7.5
20	17.5	15.5	9.5	8.0	9.0	8.0	7.0	6.5	8.0	6.5	8.5	7.0
21	17.0	15.0	9.0	8.5	9.0	9.0	7.0	7.0	8.5	6.5	8.0	7.5
22	16.5	15.5	9.5	9.0	9.0	9.0	7.0	6.5	8.5	7.0	9.5	7.0
23	17.0	15.0	9.0	8.0	9.0	8.0	7.0	6.0	8.0	6.5	10.0	7.0
24	16.5	15.0	9.0	7.5	8.5	7.0	7.0	6.5	8.0	7.5	10.0	7.0
25	16.0	14.0	9.0	7.5	7.5	6.0	7.0	6.5	8.0	8.0	10.0	7.5
26	15.5	13.5	9.0	7.5	7.0	6.0	6.5	5.5	8.0	8.0	10.0	7.5
27	15.5	13.5	9.0	8.0	6.5	6.0	6.5	6.0	8.0	8.0	10.5	8.0
28	15.5	13.5	9.0	7.5	6.0	5.5	6.5	5.5	8.5	7.5	10.5	8.0
29	14.0	12.5	9.0	7.5	6.0	5.0	6.5	6.0	---	---	9.5	7.5
30	14.0	12.0	8.5	7.0	5.5	4.5	6.5	6.0	---	---	9.0	8.0
31	14.0	11.5	---	---	5.5	4.5	6.5	6.0	---	---	10.0	7.5
MONTH	20.0	11.5	14.5	7.0	9.0	3.0	8.5	3.5	8.5	5.5	10.5	6.5
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	7.5	14.0	10.5	20.0	16.5	---	---	20.5	17.5	20.5	18.0
2	10.5	7.5	14.0	10.5	20.5	16.5	---	---	20.5	17.0	20.0	18.0
3	11.0	7.5	14.5	11.0	20.0	16.5	21.0	17.5	20.5	17.5	20.0	17.5
4	11.5	8.0	13.5	11.5	20.5	16.5	21.0	18.0	21.0	17.0	20.5	17.5
5	12.0	8.0	14.5	10.0	21.0	17.0	21.5	18.0	20.0	17.0	20.5	18.5
6	12.0	8.0	15.0	11.0	21.0	17.0	21.0	18.0	21.0	17.0	21.0	17.5
7	12.5	9.5	15.0	12.0	21.0	17.0	21.0	17.5	21.0	18.0	21.0	18.0
8	12.5	9.0	16.0	11.5	21.5	18.0	21.0	17.5	21.0	18.0	21.0	18.0
9	11.5	9.5	16.0	12.0	21.0	18.0	21.5	17.5	21.0	18.0	22.0	18.5
10	13.0	10.0	16.0	12.0	21.0	18.0	21.0	18.0	21.0	17.5	22.0	19.0
11	13.0	10.0	16.5	12.0	20.0	17.5	21.0	18.5	21.5	18.0	22.0	19.0
12	13.0	10.0	16.5	12.0	20.0	17.5	21.0	18.0	21.5	18.0	22.0	19.0
13	11.5	10.0	16.5	12.5	19.0	17.5	21.0	18.0	21.0	18.0	22.0	19.0
14	12.5	9.5	16.5	12.5	18.0	15.5	21.0	19.0	21.0	19.0	21.5	18.0
15	12.0	9.5	17.0	12.5	18.0	15.5	21.5	19.0	21.0	18.0	21.5	18.5
16	11.0	10.0	17.5	12.5	18.5	16.0	21.5	19.0	20.5	17.5	21.5	18.0
17	12.0	9.5	18.5	14.5	18.0	15.5	22.0	19.0	20.5	17.5	21.5	18.0
18	11.5	8.5	19.5	15.5	19.0	15.5	21.5	18.5	20.5	17.5	21.5	19.0
19	12.5	9.5	19.0	15.5	20.5	16.5	21.0	18.0	20.0	17.5	21.0	19.5
20	12.5	9.0	18.0	14.5	21.0	17.0	20.5	18.0	20.0	17.5	21.0	19.5
21	13.5	9.5	18.5	14.5	21.0	17.5	20.0	17.5	20.0	17.5	21.5	18.0
22	13.5	10.0	19.0	15.0	20.0	17.5	20.0	17.0	20.0	17.5	20.5	19.0
23	14.0	10.5	18.0	15.0	20.0	17.0	20.0	17.5	19.0	17.0	21.0	19.0
24	14.5	10.5	17.0	15.0	20.0	16.0	20.5	17.5	19.0	16.5	20.0	18.5
25	14.5	11.0	17.0	14.0	21.0	17.5	21.5	18.0	19.0	17.0	20.5	17.0
26	15.0	11.0	18.0	13.5	---	---	21.5	18.5	19.5	16.5	20.5	17.5
27	15.0	11.0	18.5	14.0	---	---	21.5	19.0	20.0	17.0	20.5	17.5
28	14.5	11.0	20.0	15.0	---	---	21.0	18.5	20.5	17.0	20.5	17.5
29	14.5	10.5	20.5	16.0	---	---	21.0	18.5	21.0	17.5	20.5	18.0
30	14.0	10.5	19.5	17.0	---	---	21.0	18.5	21.0	17.5	20.0	17.5
31	---	---	20.0	16.5	---	---	21.0	18.0	20.5	18.5	---	---
MONTH	15.0	7.5	20.5	10.0	21.5	15.5	22.0	17.0	21.5	16.5	22.0	17.0

## EEL RIVER BASIN

11472150 EEL RIVER NEAR DOS RIOS, CALIF.

LOCATION.--Lat 39°37'30", long 123°20'25", in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.32, T.21 N., R.13 W., Mendocino County, at gaging station 1,100 ft upstream from Outlet Creek, and 6.3 miles south of Dos Rios.

DRAINAGE AREA.--528 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1958 (partial-record station), October 1958 to September 1973.  
 Water temperatures: October 1966 to September 1973.  
 Sediment records: October 1966 to September 1973.  
 Turbidity: Water years 1967-68 (partial-record station).

## EXTREMES.--1972-73:

Water temperatures: Maximum, 27.0°C May 29, June 29, Aug. 11; minimum, 1.0°C Dec. 12.  
 Sediment concentrations: Maximum daily, 2,070 mg/l Jan. 16; minimum daily, 0 mg/l on many days.  
 Sediment discharge: Maximum daily, 124,000 tons Jan. 16; minimum daily, 0 tons on many days.

## Period of record:

Water temperatures (1966-67, 1968-73): Maximum (1971-73), 31.0°C July 17, 1972; minimum, 1.0°C Dec. 12, 1972.  
 Sediment concentrations: Maximum daily, 3,590 mg/l Jan. 21, 1967; minimum daily, 0 mg/l on several days in 1969-70, 1973.  
 Sediment discharge: Maximum daily, 351,000 tons Jan. 24, 1970; minimum daily, 0 tons on several days in 1969-70, 1973.

REMARKS.--Selected chemical-quality analyses furnished by California Department of Water Resources. During period October 1958 to September 1966, chemical-quality station located at lat 39°37'36", long 123°20'36". Flow partly regulated by Lake Pillsbury and by diversion through Potter Valley powerhouse.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	RICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
NOV.								
01...	1430	13	--	--	--	--	--	.00
15...	0900	471	5.2	77	0	63	3.2	.09
DEC.								
06...	0925	143	6.9	94	0	77	3.7	.03
JAN.								
18...	0945	13600	3.2	48	0	39	4.8	.07
FEB.								
12...	1545	3700	--	--	--	--	--	.02
APR.								
10...	1630	670	--	--	--	--	--	.00
AUG.								
08...	1030	23	6.3	103	0	84	2.7	.03
SEP.								
12...	1100	3.9	--	--	--	--	--	.00

DATE	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. OEP. (MG/KG)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL NITRO- GEN IN BOTTOM DEPOS- ITS (N) (MG/KG)
NOV.									
01...	.00	--	--	.13	--	.04	.17	.02	--
15...	--	--	--	--	--	--	--	--	--
DEC.									
06...	--	--	--	--	--	--	--	--	--
JAN.									
18...	--	--	--	--	--	--	--	--	--
FEB.									
12...	.00	.02	--	.27	.27	.01	.28	.18	--
APR.									
10...	.00	.00	--	.03	--	.19	.22	.02	--
AUG.									
08...	--	--	--	--	--	--	--	--	--
SEP.									
12...	.00	.00	1.8	.05	--	.07	.12	.04	130

DATE	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MA- TERIAL (C) (G/KG)	DIS- SOLVED BORON (B) (UG/L)
NOV.								
01...	.00	--	--	--	12.0	1.0	--	--
15...	.00	60	0	.3	9.0	--	--	300
DEC.								
06...	.00	82	5	.3	3.0	--	--	300
JAN.								
18...	.00	47	8	.2	7.5	--	--	0
FEB.								
12...	.02	--	--	--	7.5	2.5	--	--
APR.								
10...	.01	--	--	--	16.0	1.0	--	--
AUG.								
08...	.00	84	0	.3	24.0	--	--	300
SEP.								
12...	.03	--	--	--	--	1.5	3.5	--

## EEL RIVER BASIN

475

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT.							
04...	0915	6.3	283	7.8	18.0	1	8.6
NOV.							
01...	1430	13	263	--	12.0	--	--
15...	0900	471	144	7.5	9.0	25	10.5
DEC.							
06...	0925	143	189	7.6	3.0	6	12.3
JAN.							
18...	0945	13600	86	7.4	7.5	330	11.7
FEB.							
07...	1040	4020	111	7.4	7.5	120	11.6
12...	1545	3700	115	--	7.5	--	--
MAR.							
07...	0850	2740	123	7.4	7.5	30	10.3
APR.							
04...	0940	934	145	7.4	9.0	6	10.5
10...	1630	670	155	--	16.0	--	--
MAY							
23...	1700	54	218	8.2	22.5	1	9.6
JUNE							
21...	0825	16	225	8.0	23.0	0	7.5
JULY							
11...	0730	8.6	240	8.0	23.0	0	8.3
AUG.							
08...	1030	23	189	8.0	24.0	0	9.2
SEP.							
12...	1100	3.9	234	--	--	--	--
13...	0720	4.2	239	7.8	20.0	0	8.6

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DEPOSITS (UG/KG)	DDO (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)
FEB.										
12...	1545	.00	--	.0	--	.00	--	.00	--	.00
APR.										
10...	1630	.00	--	.0	--	.00	--	.00	--	.00
SEP.										
12...	1100	.00	.0	.0	0	.00	.0	.00	.0	.00

DATE	DDT IN BOTTOM DEPOSITS (UG/KG)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/L)	HEPTA-CHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
FEB.										
12...	--	.00	.00	--	.00	--	.00	--	.00	--
APR.										
10...	--	.00	.00	--	.00	--	.00	--	.00	--
SEP.										
12...	.0	.00	.00	.0	.00	.0	.00	.0	.00	.0

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
FEB.										
12...	.00	--	.00	.00	.00	.0	--	.00	.00	.00
APR.										
10...	.00	--	.00	.00	.00	.0	--	.00	.00	.00
SEP.										
12...	.00	.0	.00	.00	.00	.0	0	.00	.00	.00

## EEL RIVER BASIN

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHROMIUM (CR) (UG/L)
NOV. 01...	1430	1	--	0	1	1	--	0
FEB. 12...	1545	0	--	1	30	0	--	0
APR. 10...	1630	2	--	0	0	1	--	0
SEP. 12...	1100	4	10	0	0	1	0	0

DATE	TOTAL CHROMIUM IN BOTTOM DE-POSITS (UG/G)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD (PB) (UG/L)
NOV. 01...	--	0	0	0	--	5	3	--	1
FEB. 12...	--	0	70	2	--	60	4	--	100
APR. 10...	--	0	<20	1	--	100	3	--	<100
SEP. 12...	30	0	<25	0	8	<10	2	17	<50

DATE	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
NOV. 01...	1	--	--	--	--	60	0	--
FEB. 12...	2	--	.1	.1	--	50	0	--
APR. 10...	4	--	--	--	--	10	0	--
SEP. 12...	2	5	.0	.0	.1	30	20	25

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	13.0	---	5.5	7.0	10.5	11.0	---	---	---	25.0	---
2	---	13.5	---	5.0	7.5	9.0	---	18.5	22.5	26.0	---	---
3	21.0	14.0	9.5	4.5	7.5	9.0	12.0	---	---	---	26.5	---
4	---	14.5	8.0	4.0	9.0	9.5	---	17.0	25.5	---	---	25.0
5	20.0	12.0	5.0	3.0	9.0	7.5	13.0	---	---	---	24.0	---
6	---	12.5	6.0	4.0	10.0	9.5	---	20.5	23.0	---	25.5	20.0
7	19.0	11.0	5.0	3.0	9.5	10.0	14.0	---	---	---	26.0	---
8	---	12.5	2.0	2.0	10.5	10.5	---	20.0	25.0	25.0	---	21.0
9	19.5	10.0	2.0	5.0	10.0	11.0	---	---	---	---	26.0	---
10	18.0	11.5	1.5	6.0	9.5	11.5	15.5	23.0	---	21.5	---	24.0
11	17.0	10.5	1.5	8.0	10.5	10.0	---	---	---	---	27.0	---
12	---	11.5	1.0	8.0	9.5	10.0	---	---	25.5	---	---	22.5
13	---	11.0	2.0	8.0	10.0	10.0	13.0	22.0	---	---	---	---
14	---	10.5	3.0	8.0	10.0	---	---	---	22.0	---	---	19.0
15	18.0	10.0	2.0	7.5	8.5	11.5	15.0	22.0	---	---	---	---
16	15.5	10.0	4.0	7.0	11.0	---	---	---	22.0	---	---	19.0
17	15.5	10.0	8.0	8.0	10.5	9.0	14.5	26.5	---	---	25.0	---
18	16.0	10.0	9.5	8.0	---	---	---	---	22.0	---	---	23.0
19	16.0	10.0	9.5	6.5	12.0	10.0	14.5	21.5	---	---	22.0	---
20	17.5	10.0	10.0	7.0	9.5	8.0	---	---	26.0	---	---	22.0
21	---	10.0	11.0	7.0	12.0	9.0	---	25.0	---	---	21.0	---
22	16.5	9.5	11.0	8.0	10.0	9.5	17.0	---	24.5	24.0	---	21.0
23	18.5	8.5	9.5	6.5	9.0	11.5	---	23.0	---	---	19.0	---
24	19.0	9.0	9.5	6.5	10.5	11.0	13.5	---	24.5	25.0	---	21.0
25	16.0	9.0	8.5	7.0	10.5	---	---	19.0	---	---	19.0	---
26	17.0	11.0	8.0	7.0	10.5	11.0	23.0	---	26.0	24.0	---	21.0
27	17.0	9.0	7.0	6.0	10.0	---	---	20.0	---	---	23.5	---
28	14.0	---	7.0	6.5	11.0	10.5	18.5	---	---	---	---	23.5
29	11.0	10.0	6.0	7.0	---	---	---	27.0	27.0	---	22.0	---
30	13.0	9.5	5.0	7.5	---	10.5	18.0	---	22.0	26.5	---	19.5
31	12.0	---	6.5	8.0	---	10.0	---	24.0	---	---	22.0	---
MONTH	---	11.0	6.0	6.5	10.0	10.0	---	---	---	---	---	---

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	14	7	.26	14	2	.08	65	14	2.5
2	9.7	3	.08	13	2	.07	63	13	2.2
3	7.5	2	.04	53	47	16	76	24	5.6
4	6.3	1	.02	282	124	94	150	27	11
5	6.3	1	.02	233	37	23	146	23	9.1
6	5.8	1	.02	99	16	4.3	146	30	12
7	5.1	1	.01	719	202	521	157	33	14
8	5.1	1	.01	447	188	267	136	24	8.8
9	5.1	1	.01	221	61	42	85	12	2.8
10	6.1	1	.02	733	107	218	107	6	1.7
11	30	7	.57	1180	254	872	99	5	1.3
12	104	25	7.0	382	38	39	99	4	1.1
13	112	10	3.0	321	49	75	162	7	3.1
14	65	3	.53	1400	189	807	107	3	.87
15	57	3	.46	566	45	77	113	7	2.1
16	63	3	.51	1170	87	251	2520	846	9540
17	53	3	.43	489	18	24	8220	1690	40900
18	44	3	.36	278	10	7.5	4070	449	5350
19	37	5	.50	436	44	52	3400	308	3230
20	32	3	.26	387	21	22	2520	80	544
21	27	3	.22	257	9	6.2	1110	42	135
22	49	3	.40	201	6	3.3	2600	209	1490
23	40	10	1.1	164	5	2.2	2050	83	459
24	26	3	.21	136	6	2.2	1850	70	350
25	21	3	.17	114	5	1.5	1230	28	93
26	18	2	.10	102	4	1.1	932	17	43
27	17	2	.09	94	2	.51	890	67	173
28	18	3	.15	81	4	.87	1060	67	192
29	18	3	.15	76	9	1.8	988	32	85
30	15	3	.12	69	13	2.4	838	27	61
31	14	3	.11	--	--	--	714	26	50
TOTAL	931.0	--	16.93	10717	--	3434.03	36703	--	62773.17

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	584	23	34	2120	42	240	3500	103	973
2	500	23	31	1880	39	198	2900	70	548
3	442	21	25	1720	33	153	2500	78	527
4	396	24	26	5450	541	12700	3200	67	579
5	353	20	19	7450	550	11100	2550	47	324
6	265	17	12	4640	210	2630	2880	90	700
7	205	12	6.6	4040	140	1530	2690	48	349
8	327	26	33	3640	120	1180	2440	36	237
9	3840	667	7960	3250	120	1050	2050	28	155
10	3810	250	2570	4580	260	3220	1940	30	157
11	12000	1610	65000	4530	170	2080	1980	33	176
12	21400	1520	90700	4110	120	1330	1770	20	96
13	12900	730	25400	3340	83	748	1560	16	67
14	6750	430	7840	3230	86	750	1380	14	52
15	5120	340	5120	2830	63	481	1240	13	44
16	21000	2070	124000	2400	46	298	1130	12	37
17	13500	923	36300	2070	35	196	1080	12	35
18	12800	940	32500	1820	30	147	936	11	29
19	9330	570	14400	1610	28	122	1060	42	127
20	5830	320	5040	1430	21	81	1830	59	292
21	4660	220	2770	1280	22	76	2090	59	333
22	3500	145	1370	1170	19	60	2080	34	191
23	2790	103	776	1070	17	49	1820	22	108
24	2600	87	611	2290	179	1260	1630	16	70
25	3070	107	887	5410	311	4610	1490	10	40
26	2630	75	533	5040	268	3650	1380	8	30
27	2250	58	352	4710	175	2230	1290	8	28
28	1960	48	254	4020	116	1260	1190	8	26
29	2260	83	506	--	--	--	1090	8	24
30	2740	85	629	--	--	--	1720	109	645
31	2490	61	410	--	--	--	2020	57	311
TOTAL	162302	--	426116.6	91130	--	53429	58466	--	7310

## EEL RIVER BASIN

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	1610	14	61	115	2	.62	34	0	0
2	1330	13	47	106	2	.57	31	0	0
3	954	13	33	101	2	.55	30	0	0
4	934	11	28	98	2	.53	29	1	.08
5	921	8	20	98	3	.79	29	0	0
6	915	8	20	95	4	1.0	29	0	0
7	928	8	20	92	2	.50	25	0	0
8	928	8	20	87	1	.23	23	1	.06
9	915	8	20	83	1	.22	22	1	.06
10	896	8	19	80	1	.22	20	1	.05
11	890	8	19	78	1	.21	19	1	.05
12	884	7	17	73	2	.39	19	1	.05
13	915	7	17	69	3	.56	19	1	.05
14	439	7	8.3	67	2	.36	19	1	.05
15	265	8	5.7	63	1	.17	19	1	.05
16	226	8	4.9	61	1	.16	19	2	.10
17	226	8	4.9	58	1	.16	18	1	.05
18	209	6	3.4	52	1	.14	18	1	.05
19	187	4	2.0	52	1	.14	18	1	.05
20	175	4	1.9	50	1	.14	17	1	.05
21	162	4	1.7	54	1	.15	16	1	.04
22	146	4	1.6	54	1	.15	15	1	.04
23	137	3	1.1	52	1	.14	15	0	0
24	137	3	1.1	52	2	.28	15	0	0
25	134	3	1.1	63	4	.68	15	0	0
26	131	2	.71	54	3	.44	14	0	0
27	128	2	.69	43	2	.23	14	0	0
28	123	3	1.0	40	1	.11	13	0	0
29	120	2	.65	38	0	0	12	0	0
30	120	2	.65	35	0	0	12	0	0
31	--	--	--	34	0	0	--	--	--
TOTAL	16085	--	382.40	2097	--	9.84	598	--	.88

DAY	JULY			AUGUST			SEPTEMBER		
	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	11	0	0	40	1	.11	5.8	1	.02
2	11	0	0	43	1	.12	5.4	1	.01
3	10	0	0	45	1	.12	5.1	1	.01
4	10	0	0	50	2	.27	4.8	1	.01
5	10	1	.03	85	3	.69	4.8	1	.01
6	9.7	1	.03	83	2	.45	4.8	1	.01
7	9.7	1	.03	71	1	.19	4.5	1	.01
8	9.7	1	.03	23	1	.06	4.2	1	.01
9	9.7	1	.03	11	1	.03	4.2	1	.01
10	8.9	1	.02	7.1	1	.02	4.2	1	.01
11	8.6	1	.02	5.1	1	.01	4.2	1	.01
12	9.2	1	.02	4.2	1	.01	3.9	2	.02
13	9.2	1	.02	3.9	1	.01	4.2	1	.01
14	9.2	1	.02	3.6	1	.01	4.2	1	.01
15	9.7	1	.03	3.1	2	.02	4.2	1	.01
16	9.7	1	.03	2.9	1	.01	3.9	1	.01
17	9.2	1	.02	3.1	1	.01	3.9	1	.01
18	8.6	1	.02	3.4	1	.01	3.9	1	.01
19	8.6	1	.02	3.4	1	.01	4.8	1	.01
20	8.6	1	.02	3.1	1	.01	8.1	1	.02
21	8.6	1	.02	3.1	1	.01	11	1	.03
22	8.1	1	.02	3.6	1	.01	10	1	.03
23	8.6	2	.05	3.9	1	.01	13	1	.04
24	9.7	3	.08	4.2	1	.01	12	2	.06
25	9.7	2	.05	4.5	1	.01	12	1	.03
26	9.2	1	.02	5.8	1	.02	10	1	.03
27	8.6	1	.02	8.6	1	.02	12	1	.03
28	8.6	1	.02	8.1	1	.02	9.2	2	.05
29	19	1	.05	6.6	1	.02	7.6	1	.02
30	25	1	.07	5.8	1	.02	7.1	1	.02
31	23	1	.06	5.8	2	.03	--	--	--
TOTAL	328.4	--	.85	553.9	--	2.35	197.0	--	.57

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

380108.3  
553476.62



## EEL RIVER BASIN

479

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1972	931.00	16.93	0	17
NOVEMBER ...	10717.00	3434.03	10	3440
DECEMBER ...	36703.00	62773.17	4690	67500
JANUARY 1973	162302.00	426116.60	74000	500000
FEBRUARY ...	91130.00	53429.00	13400	66900
MARCH .....	58466.00	7310.00	1760	9070
APRIL .....	16085.00	382.40	22	404
MAY .....	2097.00	9.84	0	10
JUNE .....	598.00	0.88	0	1
JULY .....	328.40	0.85	0	1
AUGUST .....	553.90	2.35	0	2
SEPTEMBER ..	197.00	0.57	0	1
TOTAL .....	380108.30	553476.62	93882	647346

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	
NOV.												
03...	1730	14.0	36	148	14	--	--	--	--	--	--	
04...	1155	14.5	245	132	87	--	--	--	--	--	--	
07...	1035	11.0	988	154	411	--	--	--	--	--	--	
08...	1025	12.5	417	208	234	65	71	74	77	98	--	
DEC.												
16...	1345	4.0	3300	1340	11900	40	45	60	71	82	90	
17...	1140	8.0	11100	1770	53000	24	33	43	54	67	78	
18...	1120	9.5	2950	176	1400	--	--	43	--	--	90	
JAN.												
03...	1510	4.5	432	19	22	--	--	--	--	--	--	
09...	1715	5.0	5500	683	10100	27	41	52	65	76	88	
11...	0925	7.5	9490	1720	44100	20	26	33	45	57	72	
11...	1650	8.0	16400	2470	109000	19	27	36	46	60	71	
16...	1400	7.0	25900	2380	166000	18	24	32	42	54	64	
19...	1150	3.5	9120	532	13100	26	35	44	52	58	--	
23...	1225	6.5	2780	102	766	--	--	44	--	--	--	
FEB.												
25...	1120	10.5	5830	373	5870	--	--	--	--	--	--	
MAR.												
05...	1545	7.5	2550	50	344	--	--	--	--	--	--	
DATE		SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
NOV.												
03...	100	--	--	--	--	--	--	--	--	--	--	--
04...	100	--	--	--	--	--	--	--	--	--	--	--
07...	100	--	--	--	--	--	--	--	--	--	--	--
08...	100	--	--	--	--	--	--	--	--	--	--	--
DEC.												
16...	--	97	--	100	--	--	--	--	--	--	--	--
17...	--	88	--	96	--	100	--	--	--	--	--	--
18...	--	91	--	96	--	100	--	--	--	--	--	--
JAN.												
03...	98	--	100	--	--	--	--	--	--	--	--	--
09...	--	93	--	100	--	--	--	--	--	--	--	--
11...	--	87	--	98	--	100	--	--	--	--	--	--
11...	--	83	--	94	--	100	--	--	--	--	--	--
16...	--	75	--	87	--	95	--	99	--	100	--	--
19...	65	--	72	--	80	--	87	--	93	--	100	--
23...	89	--	95	--	100	--	--	--	--	--	--	--
FEB.												
25...	60	--	71	--	84	--	99	--	100	--	--	--
MAR.												
05...	78	--	79	--	83	--	89	--	95	--	100	--

## EEL RIVER BASIN

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	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	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.												
16...	1410	7.0	1	25900	--	--	1	5	14	28	100	--
16...	1415	7.0	1	25900	--	1	3	12	23	37	62	100
16...	1420	7.0	1	25900	1	10	25	38	55	76	100	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
OCT.								
18...	1700	16.0	--	44	32	.00		
NOV.								
27...	1430	9.0	--	89	68	.00		
JAN.								
03...	1510	4.5	--	432	107	.00		
19...	1200	6.5	6	9050	203	5150		
MAR.								
05...	1555	7.5	6	2590	116	76		
APR.								
24...	0645	13.5	--	140	103	.00		
JULY								
10...	0955	21.5	--	8.9	15	.00		
30...	1300	26.5	--	23	32	.00		
AUG.								
03...	1300	26.5	--	46	45	.00		
06...	1200	25.5	--	83	62	.00		
SEP.								
04...	1340	25.0	--	4.8	14	.00		

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
JAN.								
19...	1200	6.5	6	9050	203	5150	1	5
MAR.								
05...	1555	7.5	6	2590	116	76	5	8

DATE	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.							
19...	7	10	18	33	57	73	100
MAR.							
05...	26	44	60	76	86	100	--

## EEL RIVER BASIN

481

11472500 EEL RIVER ABOVE DOS RIOS, CALIF.

LOCATION.--Lat 39°41'20", long 123°21'30", in SW $\frac{1}{4}$  sec. 7, T. 21 N., R. 13 W., Mendocino County, temperature recorder at site of former gaging station on left bank, 1.8 miles upstream from Middle Fork, and 2.1 miles south of Dos Rios.

DRAINAGE AREA.--705 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1957 to September 1959, October 1960 to September 1965, May 1966 to September 1973.

Sediment records: Water year 1957 (partial-record station), October 1957 to September 1965.

EXTREMES.--1972-73:

Water temperatures: Maximum, 27.5°C June 27; minimum, 1.0°C on several days during December.

Period of record:

Water temperatures: Maximum (1962-66, 1972-73), 29.0°C June 15, 1966; minimum (1962-67, 1971-73), 1.0°C on several days in 1972.

REMARKS.--Recorder malfunction Mar. 7, 8.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	18.5	11.5	10.5	8.5	8.0	5.0	4.0	7.5	6.5	9.5	9.0
2	20.5	18.0	13.0	11.0	8.5	8.0	4.5	4.0	7.5	6.5	9.5	8.0
3	20.5	18.0	13.0	12.0	8.0	7.5	4.5	3.5	7.5	7.0	8.5	8.0
4	19.5	18.0	13.5	12.5	8.0	6.5	3.5	3.0	8.0	7.5	8.5	8.0
5	20.0	17.5	13.0	11.0	6.5	5.0	3.0	2.5	8.0	7.5	9.0	8.0
6	20.0	17.0	12.0	11.0	5.5	4.5	3.0	2.5	8.0	8.0	9.5	8.5
7	19.0	17.0	11.5	10.5	4.5	3.5	3.0	2.5	8.5	8.0	---	---
8	18.5	17.0	11.5	10.5	3.5	2.0	2.5	1.5	8.5	8.5	---	---
9	18.0	17.0	10.5	10.0	2.0	1.0	5.0	2.0	8.5	8.5	10.0	8.5
10	17.0	16.5	11.0	10.0	1.5	1.0	6.0	5.0	8.5	8.0	10.0	9.0
11	16.5	16.0	11.0	10.0	1.5	1.0	7.0	6.0	8.5	8.0	9.5	8.0
12	16.5	15.5	11.0	10.0	1.5	1.0	7.5	7.0	8.5	8.0	9.0	8.0
13	16.5	15.0	10.5	10.0	2.0	1.0	7.5	7.5	8.0	7.5	9.5	7.5
14	15.5	14.5	11.0	10.0	2.5	1.0	7.5	7.0	8.5	8.0	9.5	7.5
15	15.5	14.5	10.5	10.0	3.0	2.0	7.5	7.0	8.5	7.5	10.5	7.5
16	15.0	14.5	10.5	9.5	5.0	3.0	8.0	7.0	9.0	8.0	10.0	8.5
17	15.5	14.0	10.0	9.0	7.5	5.5	7.0	7.0	9.5	8.0	9.0	8.0
18	16.0	10.0	10.5	9.5	8.5	7.5	7.5	7.0	9.0	7.5	9.5	7.0
19	16.5	14.5	10.5	9.5	9.0	8.0	7.0	6.5	9.0	7.5	9.0	8.0
20	16.5	15.0	10.5	9.5	9.5	8.5	6.5	6.0	9.5	7.5	8.0	7.0
21	16.0	14.5	10.0	9.5	10.0	9.5	7.5	7.0	9.5	7.5	7.5	7.0
22	17.0	15.5	10.5	9.5	10.0	9.0	7.5	6.5	9.0	7.5	9.0	6.5
23	16.5	15.0	9.5	9.0	9.0	8.5	7.0	6.5	9.0	7.5	10.5	8.0
24	17.5	15.5	10.0	8.5	8.5	7.5	6.5	6.0	9.0	8.5	11.0	8.5
25	16.5	15.0	10.0	8.5	7.5	7.0	7.0	6.0	9.0	8.5	11.5	9.0
26	15.5	14.0	10.5	9.0	7.0	6.5	6.0	5.5	9.0	9.0	11.5	9.0
27	15.0	13.0	10.0	9.0	7.0	6.5	6.0	5.0	9.0	9.0	11.0	9.0
28	13.5	12.0	9.5	8.5	6.5	5.5	6.5	5.5	9.5	8.5	11.0	8.5
29	12.0	10.5	9.0	8.0	5.5	4.5	7.0	6.0	---	---	10.0	8.5
30	11.0	9.5	9.0	8.0	5.5	4.0	7.0	6.5	---	---	9.5	9.0
31	11.0	9.5	---	---	5.0	4.5	7.5	7.0	---	---	10.0	9.0
MONTH	20.5	9.5	13.5	8.0	10.0	1.0	8.0	1.5	9.5	6.5	11.5	6.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	8.5	18.5	14.0	23.0	19.0	23.5	18.0	26.0	22.5	22.5	17.0
2	11.0	8.0	18.5	14.5	21.5	18.0	24.0	19.0	26.0	22.5	22.5	17.0
3	12.0	8.5	19.0	15.0	21.5	17.5	25.0	19.5	26.0	23.0	22.5	17.5
4	12.5	9.0	17.0	14.5	23.5	19.0	24.5	20.0	26.5	23.0	22.5	18.0
5	13.5	10.0	18.0	13.0	24.5	19.5	24.5	20.0	26.0	22.5	22.0	18.0
6	14.0	11.0	18.5	14.5	25.0	19.5	24.0	19.0	25.5	22.5	22.0	16.5
7	14.0	11.0	18.5	15.0	24.0	19.5	24.0	18.5	25.0	22.0	22.0	18.0
8	14.0	11.5	19.0	15.0	23.5	20.5	24.5	19.0	24.5	21.5	22.0	16.5
9	13.5	11.0	19.5	16.0	23.0	20.0	25.0	19.5	24.0	19.5	20.5	17.0
10	15.0	12.0	20.0	15.5	21.5	18.5	24.5	20.5	24.5	19.5	19.5	17.5
11	15.0	12.0	21.5	16.0	23.5	19.0	24.0	19.0	24.5	19.5	19.5	16.5
12	14.5	12.0	21.5	17.5	23.0	19.5	24.5	20.0	24.5	20.0	20.5	16.5
13	13.5	11.5	22.0	18.0	22.0	19.0	25.0	21.0	25.0	20.5	21.0	17.0
14	14.0	10.5	23.0	19.0	20.0	17.0	25.5	21.5	25.5	20.5	21.0	16.0
15	15.0	12.0	23.0	19.0	20.5	16.0	26.0	22.0	25.0	20.0	21.5	16.5
16	14.0	12.5	23.5	19.0	21.5	18.5	25.5	21.5	24.5	20.0	21.5	16.0
17	13.5	11.5	25.0	20.5	21.5	18.0	26.0	21.5	24.0	18.5	21.5	16.0
18	12.0	10.0	24.5	19.0	21.5	17.5	25.5	20.5	23.5	18.0	21.0	17.0
19	13.5	10.5	23.0	19.5	23.0	18.5	24.5	20.0	24.0	18.5	19.5	18.0
20	14.0	11.0	21.5	17.5	24.5	19.5	23.5	19.5	23.5	19.0	20.5	17.5
21	15.5	11.5	22.0	17.5	25.0	21.5	22.5	18.5	23.5	18.0	20.0	16.0
22	16.5	13.0	22.5	18.0	25.0	21.5	23.0	18.0	22.5	17.0	18.0	16.5
23	16.5	11.5	21.5	19.0	24.0	21.0	22.5	17.0	21.5	16.5	19.5	16.0
24	17.5	13.0	20.0	18.0	24.0	19.5	22.5	17.5	21.0	16.5	19.0	16.5
25	19.0	14.0	20.5	17.0	25.5	21.0	23.5	19.0	21.5	17.0	19.0	15.0
26	20.0	15.5	20.0	16.0	26.5	22.0	24.5	20.0	21.5	16.5	20.0	15.5
27	19.5	15.5	21.5	16.5	27.5	22.5	25.5	21.5	21.5	17.5	20.5	16.0
28	19.0	14.5	23.0	18.0	26.5	22.5	26.0	22.0	23.0	17.5	21.0	16.5
29	17.5	13.5	24.5	19.0	25.0	20.5	26.5	22.5	23.5	18.5	21.0	17.0
30	17.5	13.0	24.0	20.5	23.0	18.0	27.0	23.0	23.0	19.0	20.0	17.5
31	---	---	22.5	19.0	---	---	27.0	23.0	22.5	19.0	---	---
MONTH	20.0	8.0	25.0	13.0	27.5	16.0	27.0	17.0	26.5	16.5	22.5	15.0

## EEL RIVER BASIN

11472900 BLACK BUTTE RIVER NEAR COVELO, CALIF.

LOCATION.--Lat 39°49'15", long 123°04'50", in SE¼ sec.28, T.23 N., R.11 W., Mendocino County, at gaging station 10 ft upstream from highway bridge, 0.5 mile upstream from mouth, and 9.5 miles east of Covelo.

DRAINAGE AREA.--162 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1964 to September 1966.

Specific conductance: October 1966 to September 1968.

Water temperatures: May 1964 to September 1973 (discontinued).

Sediment records: Water year 1966 (partial-record station), December 1966 to September 1973 (discontinued).

Turbidity: Water years 1966-68 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 34.5°C July 26; minimum, freezing point on many days during winter period.

Sediment concentrations: Maximum daily, 4,680 mg/l Jan. 16; minimum daily, 1 mg/l on many days.

Sediment discharge: Maximum daily, 74,300 tons Jan. 16; minimum daily, 0.01 ton on several days.

Period of record:

Water temperatures: Maximum (1965-68, 1969-73), 34.5°C July 26, 1973; minimum (1965-73), freezing point on many days in 1965-69, 1971, 1973.

Sediment concentrations (1965-73): Maximum daily, 10,600 mg/l Jan. 4, 1966; minimum daily, 0 mg/l on several days in 1969.

Sediment discharge (1965-73): Maximum daily, 249,000 tons Jan. 24, 1970; minimum daily, 0 tons on several days in 1969.

REMARKS.--No thermograph record Oct. 2-4, Oct. 28 to Nov. 17, Sept. 6-30, recorder stopped; Nov. 18-28, Jan. 4 to Feb. 27, Mar. 9 to Apr. 4, Apr. 13-23, Aug. 17-19, recorder malfunction. Where no maximum or minimum is shown, temperature is once-daily reading.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1.	21.5	-- 17.0	-- 11.0	--	7.5	-- 0.0	4.0	-- 0.0	-- 5.0	--	10.0	-- 6.5
2	--	--	--	--	4.0	-- 0.0	2.0	-- 0.0	-- 5.5	--	11.0	-- 2.5
3	--	--	-- 12.0	--	5.0	-- 2.0	2.0	-- 0.0	-- 5.5	--	8.5	-- 4.5
4	--	--	-- 11.5	--	4.0	-- 0.0	-- 1.5	--	-- 5.0	--	8.5	-- 2.5
5	19.5	-- 14.5	-- --	--	0.5	-- 0.0	-- 1.0	--	-- 4.5	--	8.5	-- 2.5
6	19.5	-- 14.0	-- 9.0	--	2.0	-- 0.0	-- 1.5	--	-- 5.5	--	10.5	-- 4.0
7	18.5	-- 14.0	-- 8.5	--	2.0	-- 0.0	-- 0.5	--	-- 5.5	--	8.0	-- 3.0
8	18.0	-- 13.5	-- 9.0	--	0.0	-- 0.0	-- 1.0	--	-- --	--	12.5	-- 4.5
9	15.5	-- 14.5	-- 8.0	--	0.0	-- 0.0	-- 3.0	--	-- 5.5	--	--	4.5
10	15.5	-- 14.0	-- 8.0	--	0.0	-- 0.0	-- 3.5	--	-- 5.0	--	--	6.0
11	16.0	-- 13.5	-- 8.0	--	0.0	-- 0.0	-- 4.5	--	-- 5.5	--	--	--
12	15.0	-- 14.0	-- 7.0	--	0.0	-- 0.0	-- 5.0	--	-- 5.0	--	-- 5.5	--
13	15.0	-- 13.0	-- 7.5	--	0.0	-- 0.0	-- --	--	-- 4.5	--	-- --	--
14	13.5	-- 12.0	-- 7.5	--	0.0	-- 0.0	-- 5.0	--	-- 5.5	--	-- 6.0	--
15	13.0	-- 12.0	-- 7.0	--	0.0	-- 0.0	-- 6.5	--	-- 4.0	--	-- --	--
16	13.0	-- 11.0	-- 6.0	--	1.5	-- 0.0	-- 6.0	--	-- 4.0	--	-- --	--
17	13.5	-- 11.0	-- 4.5	--	6.0	-- 1.5	-- 7.0	--	-- --	--	-- 5.0	--
18	14.5	-- 10.5	-- 7.5	--	7.0	-- 4.0	-- 6.0	--	-- --	--	-- --	--
19	15.0	-- 11.0	-- 7.5	--	6.5	-- 4.5	-- 4.5	--	-- 4.0	--	-- 5.5	--
20	14.5	-- 10.5	-- 6.5	--	8.0	-- 5.0	-- 4.5	--	-- --	--	-- 4.0	--
21	15.0	-- 11.0	-- 6.5	--	8.0	-- 6.0	-- 5.5	--	-- 6.5	--	-- 3.5	--
22	15.0	-- 11.0	-- 7.5	--	7.0	-- 5.0	-- 4.5	--	-- --	--	-- --	--
23	15.5	-- 11.0	-- 4.5	--	6.5	-- 3.0	-- 4.5	--	-- 5.5	--	-- --	--
24	15.5	-- 11.0	-- 4.0	--	6.5	-- 2.5	-- 4.5	--	-- 7.5	--	-- 5.5	--
25	15.0	-- 11.0	-- 6.0	--	7.0	-- 2.0	-- 4.0	--	-- 5.5	--	-- --	--
26	14.0	-- 10.0	-- 5.5	--	5.0	-- 1.0	-- 3.0	--	-- 5.5	--	-- 10.0	--
27	14.0	-- 10.0	-- --	--	3.5	-- 1.0	-- 2.5	--	-- 5.5	--	-- --	--
28	--	--	-- 6.0	--	4.0	-- 0.0	-- 4.5	--	9.5	-- 5.5	-- 9.0	--
29	--	--	8.0	-- 1.0	2.0	-- 0.0	-- 5.0	--	-- --	--	-- 7.0	--
30	--	--	7.5	-- 1.0	3.5	-- 0.0	-- 5.0	--	-- --	--	-- 6.5	--
31	--	--	-- --	--	4.0	-- 0.0	-- 5.0	--	-- --	--	-- 6.5	--
MONTH	--	--	--	--	8.0	-- 0.0	--	--	--	--	--	--

## 11472900 BLACK BUTTE RIVER NEAR COVELO, CALIF.--Continued

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	APR DAILY	MIN	MAX	MAY DAILY	MIN	MAX	JUN DAILY	MIN	MAX	JUL DAILY	MIN	MAX	AUG DAILY	MIN	MAX	SEP DAILY	MIN
1	--	8.5	--	14.5	--	2.5	24.0	--	13.0	30.0	--	16.5	33.0	--	18.0	32.0	--	18.0
2	--	8.0	--	13.5	--	3.5	24.5	--	13.0	29.5	--	17.0	33.0	--	18.5	32.0	--	17.0
3	--	9.5	--	13.5	--	4.0	25.5	--	13.0	31.5	--	17.0	34.0	--	19.0	32.5	--	17.0
4	--	8.5	--	10.0	--	4.0	24.5	--	13.5	32.0	--	18.0	33.5	--	19.5	32.0	--	18.0
5	13.0	--	1.0	14.0	--	1.5	24.0	--	14.5	31.5	--	18.0	33.0	--	18.5	31.5	--	18.5
6	12.0	--	1.0	13.5	--	4.0	29.0	--	15.5	29.5	--	17.0	32.5	--	19.0	--	17.5	--
7	12.5	--	1.5	14.5	--	5.0	29.5	--	15.5	30.0	--	16.5	32.5	--	17.5	--	--	--
8	12.0	--	1.0	16.0	--	4.5	30.5	--	17.5	30.5	--	17.0	31.0	--	18.5	--	--	--
9	10.5	--	2.0	16.0	--	5.0	29.0	--	18.0	32.0	--	17.0	31.5	--	18.5	--	--	--
10	12.0	--	4.0	17.5	--	5.5	24.0	--	17.0	31.5	--	18.0	33.0	--	18.5	--	--	--
11	12.0	--	2.5	19.0	--	6.0	29.0	--	17.0	31.5	--	18.0	30.5	--	19.5	--	--	--
12	10.0	--	1.5	20.0	--	7.5	27.5	--	16.0	32.0	--	18.0	30.5	--	19.5	--	--	--
13	--	6.5	--	21.0	--	9.0	24.5	--	17.0	32.0	--	17.0	33.5	--	19.5	--	--	--
14	--	--	--	21.0	--	9.5	24.5	--	12.5	32.0	--	17.0	33.5	--	21.0	--	--	--
15	--	11.5	--	21.5	--	10.0	24.5	--	12.0	32.0	--	16.0	34.0	--	21.0	--	--	--
16	--	9.0	--	23.0	--	10.5	24.0	--	15.5	32.5	--	16.0	34.0	--	21.0	--	--	--
17	--	--	--	24.0	--	11.5	24.0	--	13.0	31.0	--	16.5	--	--	--	--	--	--
18	--	--	--	23.5	--	12.0	26.5	--	12.0	30.5	--	16.0	--	--	--	--	--	--
19	--	10.0	--	20.5	--	10.5	29.5	--	15.0	30.0	--	15.5	--	--	--	--	--	--
20	--	--	--	20.5	--	9.5	30.5	--	16.5	28.5	--	16.5	30.0	--	18.0	--	--	--
21	--	--	--	21.5	--	9.5	29.5	--	18.0	29.0	--	14.5	30.0	--	18.0	--	--	--
22	--	8.0	--	22.5	--	10.5	29.0	--	18.0	28.5	--	14.0	29.0	--	17.0	--	--	--
23	--	--	--	19.0	--	10.5	24.0	--	18.5	28.5	--	13.5	27.5	--	17.0	--	--	--
24	14.0	--	2.5	14.5	--	12.0	29.0	--	16.0	30.5	--	16.0	26.5	--	15.5	--	--	--
25	15.5	--	3.0	18.0	--	10.0	30.5	--	18.0	33.0	--	18.0	27.5	--	16.5	--	--	--
26	16.0	--	4.0	19.0	--	7.0	32.5	--	19.0	34.5	--	19.5	29.5	--	15.5	--	--	--
27	15.0	--	4.0	22.0	--	8.5	33.0	--	19.5	34.0	--	20.0	29.5	--	16.5	--	--	--
28	14.0	--	3.0	25.5	--	11.5	32.0	--	20.5	34.0	--	20.5	32.5	--	17.0	--	--	--
29	13.0	--	3.0	26.5	--	13.5	29.5	--	18.5	34.0	--	20.0	33.0	--	18.0	--	--	--
30	13.5	--	2.0	20.0	--	16.5	28.5	--	16.0	33.5	--	20.5	31.0	--	18.5	--	--	--
31	--	--	--	23.0	--	14.5	--	--	--	33.5	--	19.0	30.0	--	19.0	--	--	--
MONTH	--	--	--	26.5	--	1.5	33.0	--	12.0	34.5	--	13.5	34.0	--	15.5	--	--	--

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	10	2	.05	10	1	.03	79	3	.64
2	8.8	2	.05	11	2	.06	74	4	.80
3	8.1	2	.04	19	8	.41	80	31	7.0
4	7.1	2	.04	138	88	36	114	30	9.9
5	7.1	1	.02	90	10	2.4	84	14	3.2
6	7.1	1	.02	47	5	.63	85	15	3.4
7	6.7	1	.02	92	65	17	82	20	4.4
8	6.4	1	.02	72	10	1.9	48	10	1.3
9	6.4	1	.02	76	70	17	53	14	2.0
10	7.4	2	.04	146	78	34	61	14	2.3
11	13	7	.25	144	68	26	75	10	2.0
12	22	4	.24	87	9	2.1	61	8	1.3
13	22	3	.18	84	22	8.3	55	7	1.0
14	20	1	.05	150	98	55	57	5	.77
15	98	127	.47	112	28	13	54	4	.58
16	94	41	10	178	82	49	2220	2810	16800
17	74	16	3.2	124	14	4.7	3580	2990	28900
18	51	12	1.7	108	9	2.6	2200	1530	9090
19	32	6	.52	130	56	20	2390	820	5290
20	24	3	.19	118	12	3.8	1780	550	2640
21	20	2	.11	104	8	2.2	1420	480	1840
22	17	2	.09	106	8	2.3	2380	710	4560
23	15	2	.08	94	5	1.3	2050	310	1720
24	14	2	.08	84	4	.91	1720	230	1070
25	13	2	.07	77	4	.83	1090	140	412
26	12	2	.06	85	4	.92	748	70	141
27	12	2	.06	106	17	4.9	705	103	196
28	11	2	.06	100	4	1.1	539	55	80
29	11	2	.06	96	6	1.6	393	33	35
30	10	2	.05	85	5	1.1	295	22	18
31	10	1	.03	--	--	--	240	18	12
TOTAL	670.1	--	64.40	2873	--	311.09	24812	--	72844.49

## EEL RIVER BASIN

11472900 BLACK BUTTE RIVER NEAR COVELO, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JANUARY			FEBRUARY			MARCH		
	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	205	16	8.9	211	39	22	693	230	430
2	188	19	9.6	182	32	16	575	146	227
3	164	52	23	164	30	13	570	165	254
4	143	34	13	596	795	3250	534	144	208
5	126	23	7.8	1240	450	1630	495	55	74
6	122	15	5.0	652	195	343	514	160	222
7	103	23	6.4	554	160	239	470	78	99
8	114	27	8.5	500	139	188	455	52	64
9	436	304	424	505	144	196	432	44	51
10	554	199	299	888	389	948	500	64	86
11	4680	2580	38100	687	188	349	539	69	100
12	5300	2320	33600	602	130	211	470	52	66
13	3670	1320	13100	485	88	115	436	38	45
14	2130	720	4140	436	107	126	409	31	34
15	2210	1010	7020	368	67	67	374	29	29
16	5660	4680	74300	316	40	34	368	29	29
17	2230	1440	8660	290	30	23	362	28	27
18	3040	1620	14400	268	28	20	322	26	23
19	1730	850	3970	244	26	17	350	50	47
20	1360	520	1910	225	23	14	409	90	99
21	1210	360	1180	218	21	12	393	78	83
22	924	238	594	205	18	10	356	38	37
23	767	178	369	195	16	8.4	374	33	33
24	813	328	846	669	357	1200	381	26	27
25	939	298	785	1560	605	2650	400	26	28
26	570	112	172	1250	432	1490	400	25	27
27	450	59	72	1080	318	927	418	24	27
28	295	49	39	799	207	447	400	22	24
29	306	66	58	--	--	--	362	20	20
30	311	63	54	--	--	--	544	133	287
31	264	57	41	--	--	--	699	167	315
TOTAL	41014	--	204215.2	15389	--	14565.4	14004	--	3122

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	509	100	137	450	34	41	114	10	3.1
2	446	27	33	432	28	33	86	8	1.9
3	404	26	28	413	22	25	77	7	1.5
4	400	21	23	404	16	17	70	6	1.1
5	460	28	35	350	12	11	65	5	.88
6	554	101	151	339	10	9.2	59	4	.64
7	575	90	140	327	8	7.1	55	3	.45
8	575	68	106	311	8	6.7	52	2	.28
9	607	78	128	306	8	6.6	48	2	.26
10	629	81	146	300	8	6.5	45	2	.24
11	729	144	283	295	8	6.4	44	2	.24
12	711	140	269	306	8	6.6	41	2	.22
13	646	115	201	322	8	7.0	40	2	.22
14	534	57	82	327	15	13	40	2	.22
15	505	42	57	322	12	10	38	2	.21
16	500	43	58	306	10	8.3	37	2	.20
17	459	44	66	300	9	7.3	36	2	.19
18	495	37	44	281	9	6.8	43	7	.81
19	450	33	40	244	9	5.9	40	5	.54
20	418	29	33	211	9	5.1	37	3	.30
21	381	25	24	188	7	3.6	36	2	.19
22	409	22	24	170	6	2.8	34	2	.18
23	465	43	54	156	5	2.1	33	2	.18
24	505	34	46	164	6	2.7	33	2	.18
25	524	41	58	159	6	2.6	32	2	.17
26	580	51	80	132	6	2.1	31	2	.17
27	635	52	89	118	6	1.9	29	2	.16
28	607	59	97	110	5	1.5	28	2	.15
29	559	46	64	94	5	1.3	26	2	.14
30	495	40	53	94	5	1.3	25	2	.14
31	--	--	--	106	7	2.0	--	--	--
TOTAL	15866	--	2661	8042	--	263.4	1374	--	15.16

## 11472900 BLACK BUTTE RIVER NEAR COVELO, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JULY			AUGUST			SEPTEMBER		
	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	25	1	.07	4.7	1	.03	7.8	3	.06
2	24	1	.06	9.3	1	.03	5.5	2	.03
3	23	1	.06	8.7	1	.02	4.5	2	.02
4	22	1	.06	8.1	1	.02	4.0	2	.02
5	21	1	.06	8.7	1	.02	3.6	1	.01
6	20	1	.05	9.0	1	.02	3.2	1	.01
7	19	1	.05	4.0	1	.02	2.9	1	.01
8	19	1	.05	8.7	1	.02	3.0	1	.01
9	18	1	.05	8.1	1	.02	2.7	1	.01
10	17	2	.09	8.1	1	.02	2.2	1	.01
11	18	3	.15	7.8	1	.02	2.4	1	.01
12	19	3	.15	7.5	1	.02	2.5	1	.01
13	20	3	.16	7.5	1	.02	2.7	2	.01
14	18	2	.10	7.2	1	.02	2.7	2	.01
15	17	2	.09	7.2	1	.02	3.3	2	.02
16	17	2	.09	7.2	1	.02	4.0	2	.02
17	16	2	.09	7.2	1	.02	2.5	1	.01
18	16	2	.09	7.2	2	.04	2.4	1	.01
19	15	2	.08	7.2	2	.04	3.5	2	.02
20	15	2	.08	7.0	2	.04	5.3	2	.03
21	15	2	.08	7.0	2	.04	6.0	2	.03
22	14	2	.08	7.0	2	.04	6.8	2	.04
23	14	2	.08	7.0	2	.04	8.0	1	.02
24	14	2	.08	7.0	2	.04	9.5	2	.05
25	13	2	.07	7.2	4	.08	13	10	.35
26	13	2	.07	7.2	4	.08	12	7	.23
27	12	2	.06	7.5	3	.06	11	5	.15
28	12	2	.06	7.5	3	.06	10	3	.08
29	12	2	.06	7.5	3	.06	9.3	2	.05
30	11	2	.06	7.8	4	.08	8.5	2	.05
31	10	2	.05	8.1	5	.11	--	--	--
TOTAL	519	--	2.43	241.2	--	1.17	164.8	--	1.39

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

124969.1

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

298067.23

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS.	SUS.	SUS.	SUS.	SUS.	SUS.
						SED. FALL DIAM. % FINER THAN .002 MM	SED. FALL DIAM. % FINER THAN .004 MM	SED. FALL DIAM. % FINER THAN .008 MM	SED. FALL DIAM. % FINER THAN .016 MM	SED. FALL DIAM. % FINER THAN .031 MM	SED. FALL DIAM. % FINER THAN .062 MM
OCT. 15...	1035	12.0	162	290	127	--	--	--	--	--	--
DEC. 16...	1305	.5	2500	3350	22600	25	33	43	53	66	76
17...	0835	5.0	5510	3370	50100	19	24	35	45	55	66
17...	1540	6.0	3190	1920	16500	18	27	34	42	55	62
23...	1600	6.5	1850	258	1290	--	--	--	--	--	--
25...	0905	5.0	1310	152	538	--	--	--	--	--	--
JAN. 04...	1245	1.5	137	34	13	--	--	--	--	--	--
09...	0800	1.5	311	453	380	54	65	74	83	88	--
09...	1625	3.0	624	551	928	52	63	72	81	87	--
11...	1320	4.5	6420	3660	63400	18	25	33	42	53	62
12...	0725	5.0	5550	2240	33600	20	27	35	45	53	61
16...	0850	6.0	7710	7860	164000	21	29	36	48	61	71
DATE		SUS.	SUS.	SUS.	SUS.	SUS.	SUS.	SUS.	SUS.	SUS.	SUS.
		SED. SIEVE DIAM. % FINER THAN .062 MM	SED. SIEVE DIAM. % FINER THAN .125 MM	SED. SIEVE DIAM. % FINER THAN .125 MM	SED. SIEVE DIAM. % FINER THAN .250 MM	SED. SIEVE DIAM. % FINER THAN .250 MM	SED. SIEVE DIAM. % FINER THAN .500 MM	SED. SIEVE DIAM. % FINER THAN .500 MM	SED. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT. 15...	98	--	--	100	--	--	--	--	--	--	--
DEC. 16...	--	85	--	--	94	--	98	--	100	--	--
17...	--	77	--	--	90	--	99	--	100	--	--
17...	--	71	--	--	81	--	93	--	99	--	100
23...	60	--	--	64	--	69	--	77	--	100	--
25...	53	--	--	58	--	66	--	77	--	100	--
JAN. 04...	100	--	--	--	--	--	--	--	--	--	--
09...	90	--	--	93	--	96	--	99	--	100	--
09...	89	--	--	92	--	96	--	99	--	100	--
11...	--	72	--	--	87	--	96	--	99	--	100
12...	--	70	--	--	82	--	96	--	100	--	--
16...	--	83	--	--	94	--	99	--	100	--	--

## EEL RIVER BASIN

11473000 MIDDLE FORK EEL RIVER BELOW BLACK BUTTE RIVER, NEAR COVELO, CALIF.

LOCATION.--Lat 39°49'35", long 123°05'30", in NW¼ sec.28, T.23 N., R.11 W., Mendocino County, temperature recorder at site of former gaging station, 0.2 mile downstream from Black Butte River, and 8.6 miles east of Covelo.

DRAINAGE AREA.--367 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1964 to September 1966.

Water temperatures: July to November 1961, October 1962 to September 1973.

Sediment records: October 1962 to September 1967.

Turbidity: Water years 1965-67 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 26.5°C July 17; minimum, 0.5°C Dec. 14.

Period of record:

Water temperatures (1962-63, 1965-66, 1967-68, 1969-73): Maximum, 29.5°C July 15, 1972; minimum (1969-73), 0.5°C Dec. 14, 1972.

REMARKS.--Recorder stopped Oct. 1-17, July 21 to Sept. 5; recorder malfunction Dec. 9-13, Dec. 25 to Jan. 3.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	AX	MIN
1	---	---	0.5	10.0	5.0	4.5	---	---	5.0	4.0	6.5	6.0
2	---	---	12.5	10.0	5.0	4.5	---	---	5.0	4.5	6.0	5.0
3	---	---	11.5	11.0	5.0	5.0	---	---	5.0	5.0	5.5	5.0
4	---	---	11.0	10.0	5.0	4.0	2.5	2.5	5.0	5.0	5.5	5.0
5	---	---	10.0	9.0	4.0	1.0	2.5	2.5	5.5	5.0	5.5	4.5
6	---	---	9.0	8.0	3.0	1.0	2.5	2.5	6.0	5.5	6.0	5.0
7	---	---	9.0	8.5	3.0	2.5	2.5	2.0	6.5	6.0	5.5	5.0
8	---	---	9.0	8.5	2.5	1.0	2.0	2.0	6.5	6.0	6.5	5.5
9	---	---	8.5	8.0	---	---	3.0	2.0	6.5	6.0	8.0	6.0
10	---	---	8.5	8.0	---	---	3.5	3.0	6.5	5.5	8.0	7.5
11	---	---	8.5	8.0	---	---	4.0	3.5	6.0	5.5	7.5	6.0
12	---	---	9.0	7.0	---	---	5.5	4.0	6.0	5.5	6.5	5.5
13	---	---	8.0	7.5	---	---	5.5	5.0	6.0	5.5	6.0	5.5
14	---	---	7.5	7.0	1.0	0.5	6.0	5.0	6.0	5.5	6.5	5.0
15	---	---	7.0	6.5	1.5	1.0	6.0	5.0	6.0	5.5	7.0	5.5
16	---	---	7.5	7.0	2.5	1.5	6.0	5.0	6.0	5.5	7.0	6.5
17	---	---	7.0	6.0	5.5	2.5	6.0	5.0	6.0	5.5	7.0	6.0
18	14.0	12.0	7.5	6.5	6.5	5.5	6.0	4.5	6.0	5.5	6.5	5.5
19	14.5	12.5	7.0	6.5	6.5	6.0	5.5	4.5	5.5	5.0	7.0	6.5
20	14.5	12.5	6.5	5.5	6.5	6.0	5.5	4.5	5.0	4.5	7.0	6.0
21	15.0	12.5	6.5	6.0	7.0	6.5	5.5	5.0	5.5	5.0	6.5	6.0
22	15.0	12.5	6.0	5.5	7.0	6.5	5.5	4.5	5.5	5.0	7.0	5.5
23	15.0	13.0	6.0	5.0	6.5	6.0	5.0	4.5	5.5	5.0	8.0	6.0
24	15.0	13.0	5.5	5.0	6.5	5.5	5.0	4.5	6.0	5.5	8.0	6.5
25	14.5	12.0	5.5	5.0	---	---	5.0	4.5	6.0	5.5	8.5	7.0
26	14.0	12.0	6.0	5.0	---	---	4.5	3.5	6.0	5.5	9.0	7.5
27	13.5	11.5	5.5	5.0	---	---	4.0	3.5	6.0	5.5	8.5	7.5
28	12.5	11.5	5.5	5.0	---	---	4.0	3.5	6.0	5.5	8.0	6.5
29	11.5	9.5	5.5	5.0	---	---	4.5	4.0	---	---	7.5	6.5
30	10.5	9.0	5.5	5.0	---	---	4.5	4.0	---	---	7.5	7.0
31	11.0	9.0	---	---	---	---	5.0	4.5	---	---	7.5	6.5
MONTH	---	---	12.5	5.0	---	---	6.0	2.0	6.5	4.0	9.0	4.5

APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	6.0	11.0	9.0	18.5	15.5	24.0	20.0	---	---	---	---
2	7.5	6.0	11.0	9.5	18.5	15.5	24.0	20.0	---	---	---	---
3	8.0	6.0	11.5	9.5	19.0	16.0	24.5	20.0	---	---	---	---
4	9.0	6.5	10.5	9.5	19.5	16.0	25.0	20.5	---	---	---	---
5	9.5	7.5	11.5	8.5	20.5	16.5	25.5	20.5	---	---	---	---
6	9.5	7.5	12.0	10.0	21.5	17.0	24.5	20.5	---	---	23.0	19.0
7	9.5	7.5	12.0	10.0	21.5	17.5	24.5	20.5	---	---	23.0	19.0
8	9.0	7.5	12.0	10.0	22.0	18.5	24.5	20.5	---	---	22.5	18.5
9	9.0	8.0	12.0	10.5	21.5	18.5	25.5	20.0	---	---	24.0	20.0
10	10.0	8.5	12.5	10.5	21.0	18.5	25.0	21.0	---	---	22.0	19.0
11	10.0	8.5	13.5	10.5	21.5	18.0	24.5	21.5	---	---	22.5	19.0
12	10.0	8.5	14.5	11.0	20.5	18.0	25.0	21.5	---	---	23.0	19.0
13	9.5	8.0	15.0	12.0	19.5	18.0	26.0	21.0	---	---	22.5	19.0
14	10.0	8.0	15.0	12.5	19.5	16.0	26.0	21.5	---	---	22.5	18.5
15	10.5	9.0	15.0	12.5	19.0	16.0	26.0	22.0	---	---	22.5	18.5
16	10.0	9.0	15.0	12.5	19.0	17.0	26.0	22.0	---	---	22.5	18.5
17	9.5	8.5	16.0	13.0	19.0	16.0	26.5	22.5	---	---	22.5	18.0
18	8.5	7.0	16.0	13.5	20.0	16.0	26.0	21.5	---	---	21.0	18.5
19	9.0	7.0	15.0	13.0	21.5	17.0	25.5	21.5	---	---	20.0	19.5
20	9.5	7.5	15.5	12.5	23.0	18.5	25.0	19.5	---	---	20.5	19.0
21	10.0	8.0	16.0	13.0	22.0	19.0	---	---	---	---	21.0	17.5
22	11.0	9.0	16.5	13.5	23.5	19.0	---	---	---	---	19.0	18.0
23	11.5	9.5	15.5	14.0	21.0	19.5	---	---	---	---	19.5	18.0
24	11.5	9.5	14.5	14.0	23.0	19.0	---	---	---	---	18.5	17.5
25	12.0	9.5	14.0	12.5	24.0	19.5	---	---	---	---	19.0	16.0
26	12.0	9.5	14.0	12.0	25.0	20.5	---	---	---	---	20.0	16.0
27	11.5	9.5	16.0	12.0	25.0	20.5	---	---	---	---	20.0	16.0
28	11.5	9.5	18.0	14.0	25.0	21.0	---	---	---	---	20.5	16.0
29	11.0	9.0	19.0	15.5	24.5	21.0	---	---	---	---	20.5	16.5
30	10.5	8.5	17.5	16.5	23.5	20.0	---	---	---	---	19.5	16.5
31	---	---	18.5	16.0	---	---	---	---	---	---	---	---
MONTH	12.0	6.0	19.0	8.5	25.0	15.5	---	---	---	---	24.0	16.0



## 487

LOCATION.--Lat 39°38'57", long 123°07'12", in NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec.30, T.21 N., R.11 W., Mendocino County, at gaging station 300 ft upstream from small left-bank tributary, and 13.5 miles northeast of Hearst. Prior to Oct. 1, 1972, at site 600 ft upstream.

PERIOD OF RECORD.--Water temperatures: October 1964 to September 1973 (discontinued).

Sediment records: Water years 1966-73 (partial-record station, discontinued).

Turbidity: Water year 1967 (partial-record station).

EXTREMES.--Period of record:

Water temperatures (1965-67, 1968-72): Maximum (1965-67, 1968-69, 1970-72), 34.5°C Aug. 2, 1967; minimum (1966-67, 1969-72), 1.0°C Jan. 3, 6-8, 1970, Feb. 2, 1972.

REMARKS.--No thermograph record Dec. 1 to Jan. 22, Jan. 27 to Mar. 12, Aug. 17 to Sept. 30, recorder stopped; Mar. 13 to July 12, probe inoperative.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	16.0	12.5	10.0	---	---	---	---	---	---	---	---
2	23.0	16.0	15.0	11.5	---	---	---	---	---	---	---	---
3	23.0	16.0	14.0	12.0	---	---	---	---	---	---	---	---
4	22.0	16.0	14.0	11.0	---	---	---	---	---	---	---	---
5	21.5	16.0	13.5	9.5	---	---	---	---	---	---	---	---
6	21.0	14.5	12.0	8.5	---	---	---	---	---	---	---	---
7	19.5	14.5	11.0	9.5	---	---	---	---	---	---	---	---
8	19.5	14.5	12.0	9.5	---	---	---	---	---	---	---	---
9	17.0	13.5	11.0	10.0	---	---	---	---	---	---	---	---
10	16.5	15.0	11.0	9.5	---	---	---	---	---	---	---	---
11	16.5	15.0	10.5	8.5	---	---	---	---	---	---	---	---
12	16.5	15.0	10.5	7.5	---	---	---	---	---	---	---	---
13	16.5	14.5	10.0	8.5	---	---	---	---	---	---	---	---
14	15.0	14.0	10.0	8.0	---	---	---	---	---	---	---	---
15	15.5	14.0	9.0	7.5	---	---	---	---	---	---	---	---
16	15.0	13.0	9.5	7.5	---	---	---	---	---	---	---	---
17	17.0	13.5	9.0	6.5	---	---	---	---	---	---	---	---
18	17.5	12.5	10.0	7.5	---	---	---	---	---	---	---	---
19	17.5	12.5	9.5	8.0	---	---	---	---	---	---	---	---
20	17.0	13.0	9.0	7.5	---	---	---	---	---	---	---	---
21	17.0	12.0	9.5	7.5	---	---	---	---	---	---	---	---
22	17.0	13.0	10.5	7.5	---	---	---	---	---	---	---	---
23	18.0	14.5	9.0	6.5	---	---	7.0	5.0	---	---	---	---
24	17.5	12.5	9.5	6.5	---	---	7.0	6.0	---	---	---	---
25	16.5	11.0	9.5	6.0	---	---	7.0	4.5	---	---	---	---
26	16.0	10.5	10.0	7.0	---	---	6.0	4.0	---	---	---	---
27	15.5	10.5	10.5	7.5	---	---	---	---	---	---	---	---
28	14.0	10.0	9.5	6.0	---	---	---	---	---	---	---	---
29	13.5	8.0	9.5	6.0	---	---	---	---	---	---	---	---
30	12.0	7.0	9.0	5.0	---	---	---	---	---	---	---	---
31	13.0	7.5	---	---	---	---	---	---	---	---	---	---
MONTH	23.0	7.0	15.0	5.0	---	---	---	---	---	---	---	---

[illegible]

## EEL RIVER BASIN

11473800 ELK CREEK NEAR HEARST, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)
OCT. 05...	1100	16.5	3.8	2	.02
DEC. 01...	1200	6.5	35	1	.09
JAN. 22...	1300	7.0	470	176	223
MAR. 12...	1125	7.0	278	14	11
JULY 12...	1300	25.5	4.0	2	.02
AUG. 17...	1145	22.0	.74	3	.01

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
JAN. 22...	1300	7.0	470	176	223	30	40	51

DATE	TEMPER- ATURE (DEG C)	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
JAN. 22...	60	67	71	75	82	96	100	

PARTICLE-SIZE DISTRIBUTION OF SURFACE-BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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
MAR. 12...	1240	1	278	--	--	--	--
12...	1245	1	278	2	4	7	10
12...	1250	1	278	--	1	3	4
12...	1255	1	278	--	--	1	3
12...	1300	1	278	4	23	62	99

DATE	TEMPER- ATURE (DEG C)	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
MAR. 12...	--	1	1	8	45	70	100	
12...	12	16	23	35	48	66	100	
12...	6	10	14	20	31	56	100	
12...	5	8	12	19	43	62	100	
12...	99	99	100	--	--	--	--	

## 489

LOCATION.--Lat 39°42'23", long 123°19'27", in NE $\frac{1}{4}$ SE $\frac{1}{4}$  sec.5, T.21 N., R.13 W., Mendocino County, at gaging station 0.6 mile upstream from Eastman Creek, 1.7 miles southeast of Dos Rios, and 1.9 miles upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1966. Prior to October 1965, published as "at Dos Rios".

Specific conductance: October 1966 to September 1967.

Water temperatures: October 1957 to September 1959, October 1960 to September 1973.

Sediment records: Water years 1956-57 (partial-record station), October 1957 to September 1973.

Turbidity: Water years 1965-68 (partial-record station).

EXTREMES, --1972-73:

Water temperatures: Maximum, 35.5°C June 20; minimum, 1.0°C Dec. 10-12.

Sediment concentrations: Maximum daily, 3,520 mg/l Dec. 17, Jan. 16; minimum daily, 1 mg/l on many days.

Sediment discharge: Maximum daily, 346,000 tons Jan. 16; minimum daily, 0.03 ton on several days.

Period of record:

Water temperatures: Maximum (1971-73), 35.5°C June 20, 1973; minimum (1968-73), freezing point Dec. 22, 1968.

Sediment concentrations (1965-73): Maximum daily, 11,800 mg/l Jan. 4, 1966; minimum daily, 1 mg/l on many days in 1965-73.

Sediment discharge (1965-73): Maximum daily, 1,430,000 tons Jan. 4, 1966; minimum daily, 0.02 ton on several days in 1970.

REMARKS.--No thermograph record Oct. 22 to Mar. 7, recorder malfunction; July 12 to Aug. 28, recorder stopped. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT			NOV			DEC			JAN			FEB			MAR			
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	
1	21.0	--	17.0	--	12.0	--	--	6.5	--	--	4.5	--	--	5.5	--	--	10.0	--	
2	22.0	--	16.0	--	13.0	--	--	7.0	--	--	5.0	--	--	7.0	--	--	7.0	--	
3	21.5	--	16.5	--	15.0	--	--	8.5	--	--	3.0	--	--	7.0	--	--	4.0	--	
4	20.5	--	17.0	--	13.0	--	--	7.0	--	--	3.0	--	--	8.0	--	--	9.0	--	
5	21.5	--	17.0	--	11.0	--	--	4.0	--	--	2.0	--	--	8.5	--	--	8.5	--	
6	21.5	--	15.5	--	10.0	--	--	4.0	--	--	3.0	--	--	9.0	--	--	4.5	--	
7	20.0	--	15.0	--	10.0	--	--	--	--	--	2.0	--	--	9.0	--	--	6.0	--	
8	20.5	--	15.0	--	10.5	--	--	2.0	--	--	1.0	--	--	10.0	--	9.0	--	6.5	--
9	18.0	--	17.0	--	10.0	--	--	2.0	--	--	4.0	--	--	10.0	--	9.0	--	7.0	--
10	18.0	--	16.0	--	10.5	--	--	1.0	--	--	5.0	--	--	9.0	--	8.0	--	7.5	--
11	18.0	--	15.5	--	9.5	--	--	1.0	--	--	8.0	--	--	9.0	--	8.0	--	7.0	--
12	17.0	--	15.5	--	10.0	--	--	1.0	--	--	8.0	--	--	9.5	--	7.0	--	6.5	--
13	16.5	--	15.0	--	10.0	--	--	2.0	--	--	7.0	--	--	8.5	--	7.0	--	6.5	--
14	15.5	--	14.5	--	9.5	--	--	1.5	--	--	7.5	--	--	10.0	--	8.0	--	7.0	--
15	16.5	--	13.5	--	8.0	--	--	2.0	--	--	7.5	--	--	8.5	--	7.5	--	7.0	--
16	15.0	--	13.5	--	8.0	--	--	4.0	--	--	9.0	--	--	9.5	--	8.5	--	7.5	--
17	16.0	--	13.5	--	8.0	--	--	7.0	--	--	7.0	--	--	9.5	--	8.0	--	7.5	--
18	16.0	--	13.0	--	8.5	--	--	9.0	--	--	7.5	--	--	10.0	--	7.5	--	7.0	--
19	16.0	--	13.0	--	9.0	--	--	9.0	--	--	--	--	--	--	--	7.5	--	7.0	--
20	16.0	--	13.5	--	8.0	--	--	9.0	--	--	5.0	--	--	8.0	--	7.5	--	7.5	--
21	16.0	--	13.5	--	8.0	--	--	9.5	--	--	6.0	--	--	10.0	--	7.5	--	7.5	--
22	--	15.0	--	--	9.0	--	--	9.5	--	--	6.5	--	--	8.5	--	9.5	--	7.0	--
23	--	17.0	--	--	7.0	--	--	8.0	--	--	5.0	--	--	8.0	--	11.0	--	7.5	--
24	--	18.0	--	--	6.5	--	--	8.0	--	--	5.5	--	--	10.0	--	9.5	--	8.0	--
25	--	13.0	--	--	7.5	--	--	7.0	--	--	6.5	--	--	10.0	--	9.0	--	8.0	--
26	--	14.0	--	--	8.0	--	--	6.5	--	--	5.0	--	--	9.5	--	9.5	--	8.0	--
27	--	15.5	--	--	9.0	--	--	6.0	--	--	4.0	--	--	9.0	--	9.0	--	8.0	--
28	--	13.0	--	--	6.0	--	--	6.0	--	--	5.0	--	--	10.0	--	9.0	--	8.0	--
29	--	11.5	--	--	8.0	--	--	5.0	--	--	6.5	--	--	--	--	9.0	--	8.0	--
30	--	12.0	--	--	8.0	--	--	4.0	--	--	6.5	--	--	--	--	9.0	--	8.5	--
31	--	11.0	--	--	--	--	--	5.0	--	--	7.0	--	--	--	--	9.0	--	8.5	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

## EEL RIVER BASIN

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	MAX	APR DAILY	MIN	MAX	MAY DAILY	MIN	MAX	JUN DAILY	MIN	MAX	JUL DAILY	MIN	MAX	AUG DAILY	MIN	MAX	SEP DAILY	MIN
1	9.0	--	8.0	14.5	--	11.0	21.5	--	14.0	28.5	--	16.0	--	22.5	--	26.5	--	20.0
2	11.0	--	8.0	14.5	--	11.0	25.0	--	14.5	27.5	--	16.5	--	--	--	25.5	--	19.5
3	13.0	--	8.5	12.0	--	11.0	28.0	--	17.5	29.5	--	16.5	--	25.5	--	25.5	--	19.5
4	11.5	--	8.5	11.5	--	11.0	31.0	--	18.5	24.5	--	17.0	--	--	--	25.5	--	19.5
5	13.0	--	9.5	13.0	--	10.5	31.0	--	18.0	26.5	--	17.0	--	23.0	--	25.0	--	20.0
6	10.5	--	10.0	12.0	--	11.0	29.5	--	18.0	25.0	--	16.0	--	27.5	--	25.0	--	19.0
7	11.0	--	9.5	15.0	--	11.5	27.0	--	17.5	27.5	--	16.0	--	25.0	--	23.5	--	19.5
8	12.0	--	10.0	16.0	--	11.0	29.0	--	17.5	29.5	--	16.5	--	--	--	25.0	--	18.5
9	11.0	--	10.0	17.0	--	11.5	25.5	--	17.0	30.5	--	16.5	--	24.0	--	25.0	--	19.5
10	12.5	--	10.0	19.5	--	11.5	29.0	--	16.0	25.5	--	17.0	--	--	--	23.0	--	19.5
11	11.5	--	10.0	25.5	--	11.5	24.5	--	17.0	18.5	--	16.5	--	25.5	--	23.0	--	19.0
12	10.5	--	9.5	16.0	--	12.0	24.5	--	16.5	--	27.0	--	--	--	--	24.5	--	19.0
13	10.5	--	10.0	16.0	--	12.0	22.5	--	16.0	--	--	--	--	30.0	--	24.5	--	19.5
14	10.0	--	9.5	15.0	--	12.5	22.5	--	14.5	--	27.0	--	--	--	--	24.5	--	18.0
15	12.0	--	9.5	16.0	--	12.0	24.0	--	14.0	--	--	--	--	24.5	--	24.5	--	19.0
16	10.0	--	9.0	19.5	--	12.0	22.0	--	16.0	--	26.0	--	--	--	--	24.5	--	18.5
17	10.0	--	9.0	20.5	--	12.5	22.5	--	15.0	--	--	--	--	24.0	--	24.0	--	17.5
18	9.0	--	8.5	14.5	--	12.5	27.5	--	14.5	--	29.0	--	--	--	--	23.0	--	18.5
19	12.0	--	8.5	16.5	--	12.0	32.5	--	16.0	--	--	--	--	21.5	--	21.5	--	20.0
20	10.5	--	9.5	18.0	--	12.0	35.5	--	17.0	--	25.0	--	--	--	--	22.0	--	19.5
21	13.5	--	9.5	22.0	--	11.5	30.0	--	17.0	--	--	--	--	20.0	--	22.5	--	17.5
22	13.5	--	10.0	20.5	--	12.0	26.0	--	17.0	--	24.0	--	--	--	--	20.5	--	18.5
23	12.5	--	10.5	18.5	--	12.5	26.0	--	17.5	--	--	--	--	19.0	--	22.0	--	18.5
24	14.0	--	10.5	14.0	--	12.0	27.5	--	16.0	--	25.0	--	--	--	--	20.0	--	18.5
25	16.0	--	11.0	17.5	--	11.5	29.0	--	17.5	--	--	--	--	19.0	--	21.0	--	16.5
26	16.5	--	11.0	20.5	--	11.0	31.5	--	18.0	--	23.0	--	--	--	--	21.5	--	17.5
27	11.5	--	11.0	23.0	--	12.0	31.0	--	18.0	--	--	--	--	21.5	--	22.0	--	17.0
28	12.0	--	11.0	30.0	--	13.0	27.0	--	18.0	--	29.5	--	--	--	--	22.0	--	17.0
29	11.0	--	11.0	28.5	--	14.0	25.5	--	16.0	--	--	--	26.0	--	22.5	22.5	--	17.5
30	13.0	--	10.5	18.5	--	14.0	25.0	--	15.5	--	27.0	--	--	27.0	--	20.5	--	18.5
31	--	--	--	21.5	--	13.5	--	--	--	--	--	--	25.5	--	21.0	--	--	--
MONTH	16.5	--	8.0	30.0	--	10.5	35.5	--	14.0	--	--	--	--	--	--	26.5	--	16.5

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	85	2	.46	58	1	.16	466	14	18
2	65	1	.18	60	1	.16	430	12	14
3	51	1	.14	117	142	.65	393	19	20
4	44	1	.12	1520	394	1690	745	68	145
5	38	1	.10	1040	126	415	497	17	23
6	34	1	.09	490	23	30	453	16	20
7	32	1	.09	1320	289	1220	419	16	18
8	29	1	.08	831	63	160	368	18	18
9	27	1	.07	569	66	120	214	25	14
10	29	1	.08	1590	193	856	248	13	8.7
11	62	6	1.0	2610	371	2910	221	9	5.4
12	177	15	7.2	1230	62	206	248	13	8.7
13	174	7	3.3	961	28	73	233	11	6.9
14	144	5	1.9	2440	286	2130	210	5	2.8
15	203	15	8.2	1440	54	210	225	4	2.4
16	408	48	53	2550	223	1650	5290	1620	51400
17	289	9	7.0	1500	50	203	18200	3520	184000
18	252	5	3.4	1080	26	76	9610	1840	52100
19	193	3	1.6	1350	101	368	8710	1570	37200
20	150	2	.81	1180	47	150	6530	645	11700
21	131	2	.71	911	17	42	5230	466	6670
22	112	2	.60	862	14	33	9230	1990	50200
23	103	1	.28	769	11	23	6990	663	13000
24	88	1	.24	653	8	14	6820	1180	22600
25	85	1	.23	596	8	13	4840	265	3460
26	77	1	.21	569	6	9.2	3930	202	2140
27	73	1	.20	667	13	23	3560	197	1890
28	65	1	.18	646	12	21	3190	135	1160
29	62	1	.17	555	13	19	2420	94	614
30	62	1	.17	522	15	21	1980	68	364
31	60	1	.16	--	--	--	1640	49	217
TOTAL	3404	--	91.97	30686	--	12750.52	103540	--	439039.9

## 11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JANUARY			FEBRUARY			MARCH		
	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	1380	44	164	2160	77	449	3640	280	2750
2	1150	35	109	1990	72	387	3080	220	1830
3	1020	32	88	1890	55	281	3040	236	1980
4	871	28	66	5490	1390	35800	3180	202	1730
5	744	23	46	4310	1030	26900	2660	121	869
6	677	18	33	4290	310	3590	2950	206	1710
7	624	16	27	3720	340	3410	2630	128	909
8	699	24	45	3300	200	1780	2410	135	878
9	4660	1300	18400	3300	190	1690	2230	106	638
10	4640	450	5640	5700	653	10200	2310	131	817
11	17500	3020	172000	4740	310	3970	2960	224	1790
12	22900	2610	165000	4180	238	2690	2490	120	807
13	19700	1900	111000	3460	164	1530	2240	107	647
14	9550	748	19300	3330	170	1530	2110	77	439
15	9230	811	22800	3050	152	1250	1950	66	347
16	34300	3520	346000	2720	100	734	1900	64	328
17	16500	1390	61900	2520	82	558	1910	64	330
18	16400	1680	77100	2370	69	442	1810	64	313
19	9090	880	21600	2240	60	363	1800	66	321
20	5350	528	7630	2130	59	339	2490	197	1320
21	5280	447	6370	2050	52	288	2570	174	1210
22	3930	284	3010	1970	46	245	2490	135	908
23	3210	220	1910	1840	47	233	2310	146	911
24	3040	226	1860	3240	795	10500	2240	95	575
25	3640	285	2800	6670	1030	19500	2210	89	531
26	2880	153	1190	5720	947	16100	2150	75	435
27	2520	115	782	5100	465	6400	2210	85	507
28	2290	98	606	3950	290	3090	2100	69	391
29	2490	139	991	--	--	--	1950	71	374
30	2760	166	1270	--	--	--	2490	264	2390
31	2450	105	695	--	--	--	3520	380	3840
TOTAL	211475	--	1050432	101430	--	154249	76030	--	32825

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	2640	160	1140	1990	65	349	624	18	30
2	2310	105	655	1910	55	284	525	10	14
3	2140	89	514	1870	50	252	469	8	10
4	2040	77	424	1840	52	258	417	7	7.9
5	2120	100	572	1700	40	184	372	5	5.0
6	2400	161	1040	1630	31	136	329	3	2.7
7	2590	195	1360	1600	30	130	304	3	2.5
8	2560	152	1050	1560	26	110	287	2	1.5
9	2680	153	1110	1520	26	107	273	2	1.5
10	2660	134	962	1490	24	97	263	1	.71
11	2950	235	1870	1450	24	94	247	1	.67
12	3030	292	2390	1460	25	99	232	2	1.3
13	2910	184	1450	1550	38	159	220	1	.59
14	2580	134	933	1650	43	192	211	1	.57
15	2390	106	684	1630	40	176	205	1	.55
16	2270	86	527	1600	32	138	200	1	.54
17	2410	133	865	1590	26	112	194	1	.52
18	2260	86	525	1510	23	94	186	1	.50
19	2030	74	406	1400	21	79	174	1	.47
20	1890	63	321	1240	18	60	159	1	.43
21	1800	52	253	1110	16	48	145	1	.39
22	1780	48	231	1010	14	38	134	1	.36
23	1960	75	397	938	12	30	127	1	.34
24	2060	88	489	911	11	27	118	1	.32
25	2160	116	677	1000	25	68	116	1	.31
26	2400	180	1170	838	17	38	118	1	.32
27	2660	190	1360	733	7	14	110	1	.30
28	2580	175	1220	661	4	7.1	98	1	.26
29	2470	140	934	619	3	5.0	89	1	.24
30	2210	83	495	593	3	4.8	81	1	.22
31	--	--	--	578	3	4.7	--	--	--
TOTAL	70940	--	26024	41181	--	3394.6	7027	--	85.01

## EEL RIVER BASIN

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JULY			AUGUST			SEPTEMBER		
	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	76	1	.21	21	1	.06	14	1	.04
2	71	1	.19	21	1	.06	13	2	.07
3	67	1	.18	21	1	.06	12	1	.03
4	67	1	.18	20	1	.05	12	1	.03
5	61	1	.16	21	1	.06	12	1	.03
6	61	1	.16	20	1	.05	12	1	.03
7	54	1	.15	20	1	.05	12	1	.03
8	51	1	.14	20	1	.05	12	1	.03
9	53	1	.14	20	1	.05	12	1	.03
10	53	1	.14	19	1	.05	12	1	.03
11	53	1	.14	18	1	.05	12	1	.03
12	47	1	.13	18	1	.05	12	1	.03
13	41	1	.11	18	1	.05	12	1	.03
14	40	1	.11	18	1	.05	12	1	.03
15	35	1	.09	18	1	.05	12	1	.03
16	33	1	.09	17	1	.05	13	1	.04
17	30	1	.08	17	1	.05	13	1	.04
18	27	1	.07	16	1	.04	15	1	.04
19	25	1	.07	15	1	.04	16	1	.04
20	23	1	.06	15	1	.04	19	2	.10
21	19	1	.05	15	1	.04	19	2	.10
22	20	1	.05	15	1	.04	27	1	.07
23	21	1	.06	15	1	.04	28	3	.23
24	22	1	.06	15	1	.04	49	5	.66
25	22	1	.06	15	1	.04	49	3	.40
26	23	1	.06	15	1	.04	42	1	.11
27	21	1	.06	16	1	.04	34	1	.09
28	26	1	.07	15	1	.04	29	2	.16
29	27	1	.07	16	1	.04	25	1	.07
30	27	1	.07	14	1	.04	23	1	.06
31	21	1	.06	14	1	.04	--	--	--
TOTAL	1217	--	3.27	538	--	1.45	584	--	2.71
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									648052
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)									1718899.43

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	REDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1972	3404.00	91.97	36	128
NOVEMBER ...	30686.00	12750.52	8000	20700
DECEMBER ...	103540.00	439039.90	88900	528000
JANUARY 1973	211475.00	1050432.00	187000	1240000
FEBRUARY ...	101430.00	154249.00	75600	230000
MARCH .....	76030.00	32825.00	39900	72800
APRIL .....	70940.00	26024.00	35500	61500
MAY .....	41181.00	3394.60	10500	13900
JUNE .....	7027.00	85.01	186	271
JULY .....	1217.00	3.27	0	3
AUGUST .....	538.00	1.45	0	1
SEPTEMBER ..	584.00	2.71	0	3
TOTAL .....	648052.00	1718899.43	445622	2167306

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT CHARGE (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
04...	1115	13.0	1930	442	2300	38	49	63	76	85	--
11...	0920	9.5	3160	460	3930	--	--	--	--	--	81
DEC.											
16...	1500	4.0	5960	2280	36700	--	--	--	--	--	75
17...	1220	7.0	20600	3170	176000	--	--	--	--	--	74
20...	0915	9.0	6810	530	9750	--	--	--	--	--	70
22...	1105	9.5	9550	1310	33800	--	--	--	--	--	68
25...	1120	7.0	5000	247	3330	--	--	--	--	--	71
27...	0935	6.0	3150	181	1540	--	--	--	--	--	--
JAN.											
03...	1045	3.0	1040	29	81	--	--	--	--	--	--
11...	0840	8.0	13900	3950	148000	19	26	34	44	55	65
12...	0920	7.0	22900	1800	111000	19	27	37	48	59	71
12...	1635	8.0	17900	1430	69100	22	31	40	51	61	69
14...	1220	7.5	9260	667	16700	21	30	41	51	63	66
16...	0915	9.0	47800	4800	619000	22	29	38	49	61	69
18...	1435	7.5	19200	2090	108000	19	27	31	41	51	58
MAR.											
07...	1530	6.0	2530	116	792	--	--	--	--	--	--
APR.											
24...	1345	12.5	2120	84	481	--	--	--	--	--	--

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT CHARGE (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
04...	1115	13.0	1930	442	2300	38	49	63	76	85	--
11...	0920	9.5	3160	460	3930	--	--	--	--	--	81
DEC.											
16...	1500	4.0	5960	2280	36700	--	--	--	--	--	75
17...	1220	7.0	20600	3170	176000	--	--	--	--	--	74
20...	0915	9.0	6810	530	9750	--	--	--	--	--	70
22...	1105	9.5	9550	1310	33800	--	--	--	--	--	68
25...	1120	7.0	5000	247	3330	--	--	--	--	--	71
27...	0935	6.0	3150	181	1540	--	--	--	--	--	--
JAN.											
03...	1045	3.0	1040	29	81	--	--	--	--	--	--
11...	0840	8.0	13900	3950	148000	19	26	34	44	55	65
12...	0920	7.0	22900	1800	111000	19	27	37	48	59	71
12...	1635	8.0	17900	1430	69100	22	31	40	51	61	69
14...	1220	7.5	9260	667	16700	21	30	41	51	63	66
16...	0915	9.0	47800	4800	619000	22	29	38	49	61	69
18...	1435	7.5	19200	2090	108000	19	27	31	41	51	58
MAR.											
07...	1530	6.0	2530	116	792	--	--	--	--	--	--
APR.											
24...	1345	12.5	2120	84	481	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAMP- LING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDIM- ENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
OCT.								
18...	1315	13.5	34	257	108	5.9	1	4
NOV.								
28...	1125	6.0	20	615	110	41	1	3
JAN.								
03...	1245	3.0	20	1040	120	89	--	--
MAR.								
07...	1250	6.0	6	2580	120	2110	--	--
JULY								
10...	1145	25.0	--	53	28	E.00	--	--

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 16.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.00 MM
OCT.							
18...	19	34	44	55	71	100	--
NOV.							
28...	16	36	51	68	83	100	--
JAN.							
03...	6	28	65	90	98	100	--
MAR.							
07...	2	14	41	70	86	95	100
JULY							
10...	--	--	--	--	--	--	--

## EEL RIVER BASIN

11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.

LOCATION.--Lat 39°56'18", long 123°20'36", in SW¼ sec.8, T.24 N., R.13 W., Mendocino County, at county road bridge 0.2 mile downstream from gaging station, 1.2 miles upstream from Asbill Creek, and 2 miles south of Mina.

DRAINAGE AREA.--248 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1972 to September 1973.

Sediment records: Water years 1966-67 (partial-record station), October 1972 to September 1973.

Turbidity: Water year 1967 (partial-record station).

EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 2,340 mg/l Jan. 16; minimum daily, 1 mg/l on many days.

Sediment discharge: Maximum daily, 100,000 tons Jan. 16; minimum daily, 0 tons on many days.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	11.0	---	---	5.0	8.5	9.5	---	---	---	---	---
2	---	---	6.5	---	7.0	---	10.0	18.5	---	---	---	---
3	---	13.5	8.0	6.5	---	---	---	---	---	---	---	---
4	---	13.0	5.5	---	6.5	---	---	17.5	---	---	---	---
5	---	11.5	4.5	1.0	7.0	---	---	---	---	---	---	20.0
6	---	10.0	4.0	---	8.5	6.0	---	17.0	---	---	---	---
7	---	10.0	---	4.5	8.0	---	14.5	---	---	---	---	---
8	---	9.0	---	---	8.5	---	---	19.5	---	---	---	---
9	---	---	0.0	---	9.0	---	---	---	---	---	---	---
10	---	10.0	---	---	9.5	---	---	---	---	---	---	---
11	---	9.0	---	1.5	6.0	---	---	---	---	25.0	---	---
12	---	9.5	0.0	2.0	7.0	---	---	---	---	---	---	---
13	---	9.0	---	3.5	---	---	---	---	---	---	---	---
14	---	8.5	---	---	8.5	---	---	23.5	---	---	---	---
15	---	---	---	2.0	---	10.5	14.0	---	---	---	---	---
16	---	9.0	---	---	8.0	9.5	---	25.0	---	---	---	---
17	15.5	9.0	7.5	7.0	---	9.5	11.0	---	---	---	---	---
18	---	9.0	8.5	8.0	6.0	---	---	---	---	---	---	---
19	---	8.5	---	7.0	---	---	14.0	---	---	---	---	---
20	---	8.0	8.5	5.5	---	6.0	---	---	---	---	---	---
21	---	7.5	8.5	7.0	---	8.0	16.0	---	---	---	---	---
22	---	---	---	6.0	---	---	---	---	---	---	---	---
23	---	---	---	5.5	---	4.5	16.5	---	---	---	---	---
24	---	7.5	---	6.0	---	11.0	---	---	---	---	---	---
25	---	7.5	---	6.5	9.0	---	12.5	---	---	---	---	---
26	---	8.0	---	5.5	9.0	11.5	---	---	---	---	---	---
27	12.0	---	---	4.0	8.5	---	---	---	---	---	---	---
28	12.5	7.0	---	8.0	---	9.5	17.0	---	---	---	---	---
29	11.5	6.5	---	6.0	---	---	---	---	---	---	---	---
30	10.0	7.5	---	5.5	---	10.0	17.5	---	---	---	---	---
31	10.5	---	---	6.5	---	---	---	---	---	---	---	---
MONTH	---	9.0	---	---	---	---	---	---	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	17	1	.05	18	1	.05	63	9	1.5
2	15	1	.04	19	1	.05	60	11	1.8
3	13	1	.04	60	10	12	62	12	2.0
4	11	1	.03	705	133	279	185	20	11
5	10	1	.03	275	34	25	113	8	2.4
6	9.0	1	.02	123	6	2.0	113	8	2.4
7	9.0	1	.02	542	103	210	117	10	3.2
8	8.0	1	.02	308	24	23	91	9	2.2
9	9.0	1	.02	183	10	4.9	90	8	1.9
10	11	1	.03	626	90	186	85	5	1.1
11	59	15	2.4	1100	133	491	80	3	.65
12	68	8	1.5	357	22	21	75	2	.41
13	45	4	.49	305	15	12	70	2	.38
14	38	2	.21	875	104	303	70	2	.38
15	40	2	.22	424	17	19	70	2	.38
16	59	4	.64	1010	94	294	2540	662	9200
17	44	2	.24	424	17	19	9680	1650	50500
18	41	2	.22	257	12	8.3	3450	662	7060
19	34	2	.18	574	47	89	2730	397	3090
20	29	2	.16	459	29	36	1600	140	605
21	26	2	.14	287	21	16	1080	60	175
22	23	2	.12	228	19	12	4020	1150	13200
23	21	2	.11	178	14	6.7	2760	340	2640
24	20	2	.11	141	9	3.4	2670	445	3550
25	19	2	.10	117	8	2.5	1490	100	402
26	19	2	.10	105	4	1.1	933	45	113
27	19	2	.10	94	3	.80	1130	271	1100
28	19	1	.05	89	2	.48	991	180	482
29	18	1	.05	77	3	.62	669	80	145
30	18	1	.05	69	6	1.1	530	43	62
31	18	2	.10	--	--	--	432	33	38
TOTAL	789.0	--	7.59	10034	--	2079.00	38049	--	92393.70



11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	367	26	26	812	16	35	1690	92	429
2	328	21	19	699	14	26	1300	58	204
3	297	15	12	624	13	22	1330	76	296
4	262	7	5.0	3310	1120	18100	1400	77	291
5	219	3	1.8	4960	672	11800	1070	44	127
6	211	6	3.4	2250	240	1460	1280	91	336
7	189	10	5.1	1590	70	301	1160	63	197
8	219	14	8.3	1250	36	122	1110	57	171
9	2060	515	3390	1300	55	209	888	26	62
10	2270	120	735	2880	220	1720	1060	47	176
11	9870	1280	42400	2180	103	606	1240	50	167
12	7390	880	18700	1920	87	451	933	26	65
13	5970	812	14300	1410	60	228	770	19	40
14	2760	260	1940	1430	82	317	660	16	29
15	2740	355	4280	1190	47	151	579	15	23
16	14300	2340	100000	921	23	57	522	11	16
17	5220	877	12900	770	15	31	530	12	17
18	5920	840	14100	655	12	21	443	5	6.0
19	3460	300	2800	566	12	18	503	17	31
20	2280	150	923	488	12	16	801	50	108
21	2100	90	510	429	11	13	973	57	150
22	1570	54	229	384	8	8.3	979	57	151
23	1160	36	113	344	6	5.6	939	38	96
24	1160	67	258	1700	354	2620	812	17	37
25	1650	65	290	2700	247	1930	724	15	29
26	1150	32	99	2950	495	4960	641	13	22
27	877	25	59	2510	272	1950	574	12	19
28	734	20	40	1680	88	399	503	11	15
29	882	47	126	--	--	--	443	10	12
30	967	31	81	--	--	--	1010	66	284
31	1040	46	129	--	--	--	1110	47	157
TOTAL	79622	--	218482.6	43902	--	47576.9	27977	--	3763.0

DAY	APRIL			MAY			JUNE		
	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	882	16	38	143	2	.77	49	1	.13
2	734	12	24	134	2	.72	47	1	.13
3	629	12	20	128	3	1.0	45	1	.12
4	562	12	18	128	4	1.4	41	1	.11
5	522	11	16	128	3	1.0	38	1	.10
6	491	11	15	119	2	.64	36	1	.10
7	450	15	18	111	2	.60	33	1	.09
8	404	15	16	107	2	.58	31	1	.08
9	377	13	13	102	2	.55	29	1	.08
10	354	11	11	100	2	.54	29	1	.08
11	341	10	9.2	98	2	.53	29	1	.08
12	325	9	7.9	92	1	.25	27	1	.07
13	360	12	12	88	1	.24	26	1	.07
14	331	10	8.9	87	1	.23	26	1	.07
15	288	7	5.4	81	1	.22	26	1	.07
16	271	6	4.4	76	1	.21	26	1	.07
17	306	12	9.9	74	1	.20	26	1	.07
18	268	8	5.8	73	1	.20	26	1	.07
19	248	5	3.3	68	1	.18	26	1	.07
20	224	4	2.4	66	2	.36	23	1	.06
21	209	3	1.7	66	2	.36	22	1	.06
22	197	2	1.1	63	2	.34	21	1	.06
23	197	4	2.1	59	2	.32	19	1	.05
24	189	3	1.5	63	2	.34	18	1	.05
25	187	3	1.5	87	4	.94	18	1	.05
26	182	3	1.5	71	3	.58	16	1	.04
27	182	4	2.0	61	2	.33	15	1	.04
28	170	5	2.3	58	1	.16	14	1	.04
29	163	3	1.3	53	1	.14	13	1	.04
30	152	2	.82	49	1	.13	12	1	.03
31	--	--	--	50	1	.14	--	--	--
TOTAL	10195	--	274.02	2683	--	14.20	807	--	2.18

## EEL RIVER BASIN

11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JULY			AUGUST			SEPTEMBER		
	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	11	1	.03	2.1	1	.01	1.4	1	0
2	11	1	.03	2.1	1	.01	.86	1	0
3	11	1	.03	1.7	1	0	.86	2	0
4	10	1	.03	1.4	1	0	1.1	2	.01
5	10	1	.03	1.4	1	0	1.1	3	.01
6	9.1	1	.02	1.1	1	0	1.1	1	0
7	9.1	1	.02	.86	1	0	1.1	1	0
8	9.1	1	.02	.86	1	0	1.1	1	0
9	8.2	1	.02	.86	1	0	1.1	1	0
10	8.2	1	.02	.66	1	0	1.1	1	0
11	7.4	1	.02	.50	1	0	1.1	1	0
12	7.4	1	.02	.50	1	0	1.1	1	0
13	7.4	1	.02	.50	1	0	1.1	1	0
14	6.7	1	.02	.66	1	0	1.1	1	0
15	6.7	1	.02	.66	1	0	1.1	1	0
16	6.0	1	.02	.66	1	0	1.1	1	0
17	6.0	1	.02	.50	1	0	1.1	1	0
18	4.7	1	.01	.50	1	0	1.1	1	0
19	4.7	1	.01	.50	2	0	1.7	1	0
20	4.7	1	.01	.50	2	0	6.7	2	.04
21	4.1	1	.01	.50	2	0	9.1	2	.05
22	3.5	1	.01	.66	2	0	21	5	.28
23	3.5	2	.02	.66	2	0	37	6	.60
24	3.5	2	.02	.50	2	0	53	15	2.1
25	3.5	3	.03	.66	1	0	34	7	.64
26	3.5	1	.01	1.1	1	0	30	4	.32
27	3.5	1	.01	1.7	1	0	22	3	.18
28	3.5	1	.01	2.1	1	.01	16	2	.09
29	3.5	1	.01	1.7	1	0	13	2	.07
30	3.0	1	.01	1.7	1	0	12	2	.06
31	2.6	1	.01	1.7	1	0	--	--	--
TOTAL	196.1	--	.57	31.50	--	.03	275.12	--	4.45
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									214560.72
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)									364598.24

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1972	789.00	7.59	0	8
NOVEMBER ...	10034.00	2079.00	145	2220
DECEMBER ...	38049.00	92393.70	8980	101000
JANUARY 1973	79622.00	218482.60	24800	243000
FEBRUARY ...	43902.00	47576.90	6480	54100
MARCH .....	27977.00	3763.00	1190	4950
APRIL .....	10195.00	274.02	54	328
MAY .....	2683.00	14.20	0	14
JUNE .....	807.00	2.18	0	2
JULY .....	196.10	0.57	0	1
AUGUST .....	31.50	0.03	0	0
SEPTEMBER ..	275.12	4.45	0	4
TOTAL .....	214560.72	364598.24	41649	405627

## 11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

			INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	
DATE	TIME	TEMPER- ATURE (DEG C)										
NOV. 07...	1330	10.0	835	257	579	--	--	--	--	--	--	
DEC. 17...	1245	7.5	9610	1440	37400	25	36	45	58	70	80	
18...	1545	8.5	3000	349	2830	--	--	--	--	--	--	
20...	1645	8.5	1440	74	288	--	--	--	--	--	--	
JAN. 11...	1330	1.5	16000	2120	91600	21	32	42	54	67	79	
11...	1830	2.5	11800	1590	50700	24	30	37	51	62	76	
13...	1130	3.5	5600	751	11400	26	33	44	54	64	77	
17...	1200	7.0	4850	854	11200	16	22	30	34	46	54	
18...	1245	8.0	7190	1060	20600	22	29	38	48	59	69	
19...	1615	7.0	3120	237	2000	--	--	--	--	--	--	
21...	1610	7.0	1960	69	365	--	--	--	--	--	--	
25...	1400	6.5	1640	53	235	--	--	--	--	--	--	
FEB. 04...	1630	6.5	4140	2210	24700	--	--	--	--	--	71	
04...	2115	7.5	10300	2370	65900	20	28	37	47	59	71	
05...	0800	7.0	5160	663	9240	26	34	44	55	67	76	
MAR. 06...	1430	6.0	1290	66	230	--	--	--	--	--	--	
		SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
NOV. 07...	97	--	98	--	100	--	--	--	--	--	--	--
DEC. 17...	--	91	--	99	--	100	--	--	--	--	--	--
18...	79	--	86	--	100	--	--	--	--	--	--	--
20...	89	--	94	--	100	--	--	--	--	--	--	--
JAN. 11...	--	93	--	99	--	100	--	--	--	--	--	--
11...	--	91	--	98	--	100	--	--	--	--	--	--
13...	--	88	--	97	--	100	--	--	--	--	--	--
17...	--	62	--	71	--	82	--	100	--	--	--	--
18...	--	85	--	97	--	100	--	--	--	--	--	--
19...	75	--	83	--	91	--	97	--	100	--	--	--
21...	90	--	92	--	100	--	--	--	--	--	--	--
25...	90	--	93	--	100	--	--	--	--	--	--	--
FEB. 04...	--	80	--	90	--	95	--	97	--	100	--	--
04...	--	87	--	98	--	99	--	100	--	--	--	--
05...	--	89	--	98	--	100	--	--	--	--	--	--
MAR. 06...	71	--	75	--	78	--	83	--	90	--	100	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)
OCT.						
17...	1645	15.5	--	43	59	.00
NOV.						
29...	1110	6.0	--	79	76	.00
JAN.						
05...	1115	1.0	--	235	88	.00
17...	1135	7.0	6	4880	204	2280
MAR.						
06...	1330	6.0	6	1290	170	26
APR.						
25...	0800	12.5	--	195	94	.00
JULY						
11...	1700	25.0	--	7.4	14	.00
SEP.						
05...	0900	20.0	--	1.3	2.3	.00

## EEL RIVER BASIN

11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMRER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
JAN. 17...	1135	7.0	6	4880	204	2280	1	6
MAR. 06...	1330	6.0	6	1290	170	26	1	5

DATE	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...	12	26	43	62	81	93	100
MAR. 06...	13	32	55	82	99	100	--

LOCATION.--Lat 40°02'14", long 123°33'10", in NW<sup>1</sup><sub>4</sub>SW<sup>1</sup><sub>4</sub> sec.7, T.5 S., R.6 E., Humboldt County, at gaging station at bridge at Dry Creek, 3.2 miles northwest of Island Mountain, and 3.8 miles upstream from mouth.

PERIOD OF RECORD.--Water temperatures: October 1972 to September 1973.  
Sediment records: October 1972 to September 1973.

Sediment concentrations: Maximum daily, 3,980 ng/l Jan. 16; minimum daily, 1 mg/l on many days.  
Sediment discharge: Maximum daily, 11,800 tons Jan. 16; minimum daily, 0 tons on many days.

REMARKS.--Zero bedload discharge observed at flows smaller than 42 cfs.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	11.0	---	---	---	9.0	---	---	20.0	---	---	25.0
2	---	---	8.5	4.0	6.5	---	6.5	---	---	---	---	---
3	---	---	---	5.5	---	8.0	---	---	---	---	---	---
4	---	13.0	7.0	5.0	---	---	---	---	---	---	29.0	---
5	---	---	---	---	10.0	10.0	11.0	---	---	---	---	---
6	---	9.0	---	---	---	---	---	---	---	---	---	---
7	---	11.0	---	---	---	---	---	13.0	---	19.5	---	24.0
8	15.0	12.0	---	3.5	---	7.5	---	---	---	28.0	22.0	---
9	---	---	2.0	5.0	---	---	15.5	---	---	24.0	---	---
10	20.0	12.0	---	6.5	8.5	10.0	---	13.5	---	---	27.0	---
11	16.0	11.5	0.0	8.0	8.0	---	---	---	24.0	28.0	---	---
12	15.0	---	---	9.5	8.0	---	---	---	---	---	---	21.0
13	14.0	10.0	---	12.0	---	11.5	10.0	---	---	---	---	---
14	14.5	---	2.0	---	8.0	---	---	22.0	---	---	22.5	---
15	16.5	8.0	---	9.0	---	---	---	---	---	---	---	---
16	---	8.0	---	9.5	7.5	11.0	11.0	---	---	22.0	---	---
17	---	---	---	8.5	---	---	---	26.0	---	---	---	---
18	---	9.0	10.5	8.0	10.0	---	---	---	---	---	---	22.0
19	15.5	10.0	10.0	7.5	---	9.0	9.0	---	27.0	28.0	27.0	---
20	---	---	---	7.5	---	7.5	---	---	---	---	---	---
21	17.0	---	10.5	---	6.0	6.5	---	---	---	---	---	---
22	---	9.5	10.0	6.5	---	---	18.0	14.5	---	---	---	16.0
23	---	---	---	5.5	6.5	---	---	---	---	18.5	23.0	---
24	17.0	9.0	---	7.0	9.0	---	---	---	---	---	21.0	18.0
25	---	10.0	---	7.0	10.5	13.5	---	17.0	---	---	---	---
26	---	---	---	4.5	9.5	---	20.0	---	31.0	---	---	---
27	14.0	---	6.0	5.0	---	---	---	---	---	29.0	---	---
28	---	---	5.5	8.5	10.5	---	---	---	---	---	---	---
29	10.0	---	---	7.5	---	12.0	---	---	26.0	---	---	---
30	---	6.5	6.0	7.0	---	10.5	12.0	20.0	19.5	---	---	19.5
31	---	---	6.0	6.0	---	---	---	---	---	30.0	---	---
MONTH	---	---	---	7.0	---	---	---	---	---	---	---	---

## EEL RIVER BASIN

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	1.2	10	.03	1.5	6	.02	6.2	16	.27
2	1.1	10	.03	1.6	7	.03	5.9	16	.25
3	1.1	9	.03	2.4	8	.05	6.3	13	.22
4	.97	9	.02	20	27	1.5	7.0	12	.23
5	.97	8	.02	10	14	.38	6.9	11	.20
6	.97	8	.02	8.2	10	.22	7.4	10	.20
7	.97	7	.02	30	32	2.6	7.4	10	.20
8	.97	6	.02	17	25	1.1	7.7	17	.35
9	.90	6	.01	27	26	1.9	7.2	18	.35
10	.84	6	.01	41	25	2.8	6.8	11	.20
11	2.6	10	.07	28	74	5.6	6.8	8	.15
12	12	120	3.9	16	47	2.0	7.0	6	.11
13	6.9	10	.19	28	48	3.6	7.2	3	.06
14	4.5	7	.09	42	53	6.0	6.7	2	.04
15	4.3	10	.12	24	58	3.8	7.1	2	.04
16	3.8	8	.08	44	68	8.1	211	583	499
17	2.4	7	.05	18	33	1.6	491	2230	3660
18	2.0	7	.04	30	15	1.2	244	1380	1080
19	2.1	6	.03	54	36	5.2	166	280	125
20	2.0	5	.03	40	21	2.3	94	60	15
21	1.8	4	.02	27	14	1.0	99	100	51
22	1.8	4	.02	23	12	.75	386	901	1010
23	1.7	4	.02	17	14	.64	240	449	334
24	1.6	4	.02	15	14	.57	202	700	382
25	1.5	4	.02	11	14	.42	132	250	89
26	1.4	4	.02	10	14	.38	97	100	26
27	1.4	8	.03	9.2	15	.37	108	265	89
28	1.3	6	.02	8.0	16	.35	86	25	5.8
29	1.3	4	.01	7.5	16	.32	69	14	2.6
30	1.3	4	.01	6.4	16	.28	57	10	1.5
31	1.5	5	.02	--	--	--	49	9	1.2
TOTAL	69.19	--	5.02	616.8	--	55.08	2834.6	--	7373.97

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	43	9	1.0	67	18	3.3	128	91	32
2	39	8	.84	61	13	2.1	99	55	15
3	35	6	.57	57	9	1.4	112	83	26
4	31	4	.33	416	794	1620	97	34	8.9
5	27	3	.22	390	690	727	83	20	4.5
6	25	3	.20	177	360	172	124	39	13
7	24	3	.19	116	220	69	97	36	9.4
8	38	128	19	87	150	35	101	33	9.0
9	292	854	749	81	120	26	86	26	6.0
10	214	240	139	217	395	251	86	24	5.6
11	570	1890	3290	160	140	60	86	21	4.9
12	519	1290	1940	169	125	57	74	16	3.2
13	390	800	842	128	60	21	64	12	2.1
14	221	270	161	136	150	55	57	10	1.5
15	249	549	544	116	75	23	51	8	1.1
16	1030	3980	11800	96	30	7.8	47	7	.89
17	426	1000	1150	83	19	4.3	46	9	1.1
18	440	1070	1310	72	14	2.7	40	7	.76
19	298	500	402	63	12	2.0	48	27	4.9
20	214	305	186	55	11	1.6	86	96	22
21	186	215	108	48	10	1.3	108	116	34
22	124	95	32	42	9	1.0	103	116	32
23	103	60	17	37	8	.80	92	66	16
24	110	102	30	138	322	176	83	25	5.6
25	114	70	22	163	160	70	71	15	2.9
26	96	31	8.0	254	598	501	61	13	2.1
27	84	23	5.2	195	240	126	54	11	1.6
28	72	18	3.5	136	95	35	48	9	1.2
29	87	48	12	--	--	--	43	8	.93
30	86	32	7.4	--	--	--	89	140	43
31	78	24	5.1	--	--	--	71	100	19
TOTAL	6265	--	22785.55	3760	--	4052.30	2435	--	330.18

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	64	35	6.0	9.7	1	.03	3.7	1	.01
2	57	13	2.0	9.1	1	.02	3.4	1	.01
3	50	11	1.5	8.8	1	.02	3.4	1	.01
4	46	10	1.2	9.1	1	.02	3.2	1	.01
5	42	10	1.1	9.1	2	.05	3.0	1	.01
6	38	9	.92	8.5	2	.05	2.8	1	.01
7	34	7	.64	8.3	2	.04	2.6	1	.01
8	31	6	.50	8.0	2	.04	2.4	1	.01
9	28	6	.45	7.7	2	.04	2.4	1	.01
10	26	6	.42	7.5	2	.04	2.4	1	.01
11	24	6	.39	7.2	2	.04	2.3	1	.01
12	22	5	.30	7.2	1	.02	2.2	1	.01
13	34	16	1.6	6.7	1	.02	2.2	1	.01
14	26	8	.56	6.4	1	.02	2.2	1	.01
15	22	6	.36	6.1	1	.02	2.2	1	.01
16	21	5	.28	5.9	1	.02	2.2	1	.01
17	20	5	.27	5.6	1	.02	2.2	1	.01
18	18	4	.19	5.6	1	.02	2.2	2	.01
19	17	4	.18	5.2	1	.01	2.1	4	.02
20	16	4	.17	5.2	1	.01	2.1	2	.01
21	15	3	.12	5.2	1	.01	1.9	2	.01
22	14	3	.11	4.9	1	.01	1.9	2	.01
23	14	3	.11	4.7	1	.01	1.8	2	.01
24	13	3	.11	5.4	1	.01	1.8	2	.01
25	12	3	.10	5.4	1	.01	1.7	2	.01
26	12	3	.10	4.9	1	.01	1.7	2	.01
27	11	3	.09	4.7	1	.01	1.6	2	.01
28	11	2	.06	4.2	1	.01	1.6	2	.01
29	10	2	.05	3.9	1	.01	1.5	2	.01
30	9.7	1	.03	3.7	1	.01	1.5	1	.01
31	--	--	--	3.7	1	.01	--	--	--
TOTAL	757.7	--	19.91	197.6	--	.66	68.2	--	.30

DAY	JULY			AUGUST			SEPTEMBER		
	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	1.5	1	0	.69	2	0	.63	3	.01
2	1.5	1	0	.69	2	0	.58	2	0
3	1.4	1	0	.69	2	0	.58	2	0
4	1.3	1	0	.69	2	0	.58	2	0
5	1.3	1	0	.69	2	0	.52	2	0
6	1.3	1	0	.63	2	0	.52	2	0
7	1.3	1	0	.58	1	0	.52	2	0
8	1.3	1	0	.63	1	0	.58	2	0
9	1.1	2	.01	.63	1	0	.58	2	0
10	1.1	2	.01	.63	5	.01	.58	2	0
11	1.1	2	.01	.63	4	.01	.58	2	0
12	1.1	2	.01	.63	3	.01	.58	3	0
13	1.1	2	.01	.63	3	.01	.58	2	0
14	1.1	1	0	.63	3	.01	.58	1	0
15	1.1	1	0	.63	3	.01	.58	1	0
16	.98	1	0	.63	3	.01	.58	1	0
17	.98	1	0	.63	3	.01	.58	1	0
18	.90	1	0	.63	3	.01	.58	1	0
19	.90	1	0	.63	4	.01	.83	1	0
20	.90	1	0	.63	4	.01	.83	1	0
21	.90	1	0	.63	4	.01	.83	1	0
22	.90	1	0	.63	4	.01	1.6	3	.01
23	.90	1	0	.63	4	.01	2.3	7	.04
24	.90	1	0	.63	3	.01	1.9	2	.01
25	.90	1	0	.63	3	.01	1.6	1	0
26	.90	1	0	.63	3	.01	1.3	1	0
27	.83	2	0	.63	3	.01	1.1	1	0
28	.76	2	0	.63	3	.01	1.1	1	0
29	.76	2	0	.63	3	.01	1.1	1	0
30	.76	2	0	.63	3	.01	.98	1	0
31	.69	2	0	.63	3	.01	--	--	--
TOTAL	32.46	--	.05	19.78	--	.22	25.78	--	.07

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

17082.11  
34623.31

## EEL RIVER BASIN

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1972	69.19	5.02	0	5
NOVEMBER ...	616.80	55.08	0	55
DECEMBER ...	2834.60	7373.97	492	7870
JANUARY 1973	6265.00	22785.55	2180	25000
FEBRUARY ...	3760.00	4052.30	453	4500
MARCH .....	2435.00	330.18	42	372
APRIL .....	757.70	19.91	1	21
MAY .....	197.60	0.66	0	1
JUNE .....	68.20	0.30	0	0
JULY .....	32.46	0.05	0	0
AUGUST .....	19.78	0.22	0	0
SEPTEMBER ..	25.78	0.07	0	0
TOTAL .....	17082.11	34623.31	3168	37824

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
OCT. 12...	1545	17.0	25	317	21	39	61	77	87	94
NOV. 07...	1615	11.0	55	29	4.3	--	--	--	--	--
DEC. 19...	1545	10.0	143	166	64	36	49	63	75	83
22...	0900	10.0	454	1730	2120	24	35	46	59	70
23...	1030	--	211	235	134	--	--	--	--	--
JAN. 16...	0900	9.5	1230	5160	17100	21	21	33	45	56
18...	0945	8.0	545	1490	2190	25	37	48	61	72
19...	1235	7.5	290	460	360	27	39	52	66	77
FEB. 28...	1605	10.5	126	78	27	--	--	--	--	--
MAR. 30...	1730	10.5	110	237	70	--	--	--	--	--
APR. 05...	1050	11.0	42	12	1.4	--	--	--	--	--
MAY 14...	1315	22.0	6.6	1	.02	--	--	--	--	--



## 11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT. 12...	--	98	--	99	--	100	--	--	--	--
NOV. 07...	--	96	--	100	--	--	--	--	--	--
DEC. 19...	--	87	--	92	--	96	--	98	--	100
22...	84	--	94	--	100	--	--	--	--	--
23...	90	--	95	--	100	--	--	--	--	--
JAN. 16...	65	--	77	--	91	--	99	--	100	--
18...	81	--	92	--	100	--	--	--	--	--
19...	85	--	91	--	95	--	100	--	--	--
FEB. 28...	--	82	--	84	--	91	--	100	--	--
MAR. 30...	--	94	--	96	--	100	--	--	--	--
APR. 05...	--	57	--	--	--	--	--	--	--	--
MAY 14...	--	100	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
NOV. 07...	1625	11.0	13	55	28	1.4	--	3
DEC. 19...	1620	10.0	3	143	35	2.9	1	11
JAN. 19...	1315	7.5	5	290	40	38	--	2
FEB. 28...	1550	10.5	19	126	41	5.1	--	1
APR. 05...	1050	11.0	--	42	29	.00	--	--
MAY 14...	1315	22.0	--	6.6	17	.00	--	--
JULY 09...	1200	24.0	--	1.2	11	.00	--	--
AUG. 24...	1140	21.0	--	.62	6.0	.00	--	--

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	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
NOV. 07...	1625	11.0	13	55	28	1.4	--	--	--	--	--	--	--
DEC. 19...	1620	10.0	3	143	35	2.9	1	--	--	--	--	--	--
JAN. 19...	1315	7.5	5	290	40	38	--	--	--	--	--	--	--
FEB. 28...	1550	10.5	19	126	41	5.1	--	--	--	--	--	--	--

## EEL RIVER BASIN

11475000 EEL RIVER AT FORT SEWARD, CALIF.

LOCATION.--Lat 40°13'05", long 126°37'54", in SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec.8, T.3 S., R.5 E., Humboldt County, at gaging station at bridge, 1.0 mile southeast of Fort Seward, 1.9 miles upstream from Dobbryn Creek, and 11.8 miles northeast of Garberville.

DRAINAGE AREA.--2,107 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1972-73 (partial-record station).

Water temperatures: November 1960 to September 1973.

Sediment records: October 1965 to September 1973.

Turbidity: Water years 1966-68, 1971-73 (partial-record station).

## EXTREMES.--1972-73:

Water temperatures: Maximum, 27.0°C on several days during June to August; minimum, 0.5°C Dec. 10-12.

Sediment concentrations: Maximum daily, 4,560 mg/l Dec. 17; minimum daily, 1 mg/l on many days.

Sediment discharge: Maximum daily, 802,000 tons Jan. 16; minimum daily, 0.07 ton Aug. 21, 22.

## Period of record:

Water temperatures: Maximum (1960-64, 1965-71, 1972-73), 34.5°C June 25, 1968; minimum (1960-65, 1965-73), freezing point Dec. 14-17, 1968.

Sediment concentrations: Maximum daily, 13,900 mg/l Jan. 4, 1966; minimum daily, 1 mg/l on many days in 1965-73.

Sediment discharge: Maximum daily, 4,270,000 tons Jan. 4, 1966; minimum daily, 0.06 ton Sept. 23, 24, 1970.

REMARKS.--No thermograph record Oct. 1 to Nov. 8, June 8-11, recorder malfunction. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (MG/L)
NOV. 02...	1000	127	.04	.00	.04	--	--	.00	.15
FEB. 13...	1100	12700	.03	.00	.03	--	.05	.05	.18
APR. 11...	1030	4770	.00	.00	.00	--	.16	--	.14
SEP. 12...	1430	27	.01	.00	.01	1.8	.06	--	.03

DATE	TOTAL KJEL=DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL NITRO-GEN IN BOTTOM DEPOS-ITS (N) (MG/KG)	DIS-SOLVED ORTHO-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-OM DE-POSITS (MG/KG)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MA-TERIAL (C) (G/KG)
NOV. 02...	.15	.01	--	.00	--	293	13.5	1.0	--
FEB. 13...	.23	.26	--	.02	--	138	8.0	3.0	--
APR. 11...	.30	.10	--	.01	--	151	14.5	1.0	--
SEP. 12...	.09	.04	40	.03	33	264	--	2.0	1.3

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)
FEB. 13...	1100	.00	--	.0	--	.00	--	.00	--	.00
APR. 11...	1030	.00	--	.0	--	.00	--	.00	--	.00
SEP. 12...	1430	.00	.0	.0	0	.00	.0	.00	.0	.00

DATE	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)
FEB. 13...	--	.00	.00	--	.00	--	.00	--	.00
APR. 11...	--	.00	.00	--	.00	--	.00	--	.00
SEP. 12...	.0	.00	.00	.0	.00	.0	.00	.0	.00

## EEL RIVER BASIN

505

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSIT (UG/KG)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE- POSIT (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
FEB. 13...	.00	--	.00	.00	.00	.0	--	.00	.00	.00
APR. 11...	.00	--	.00	.00	.00	.0	--	.00	.00	.00
SEP. 12...	.00	.0	.00	.00	.00	.0	0	.00	.00	.00

## ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE- POSIT (UG/G)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE- POSIT (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)
NOV. 02...	1000	0	--	0	1	1	--	0
FEB. 13...	1100	10	--	2	40	1	--	0
APR. 11...	1030	5	--	2	0	1	--	0
SEP. 12...	1430	0	5	0	0	0	0	0

DATE	TOTAL CHRO- MIUM IN BOTTOM DE- POSIT (UG/G)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE- POSIT (UG/G)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE- POSIT (UG/G)	TOTAL LEAD (PB) (UG/L)
NOV. 02...	--	0	0	0	--	6	3	--	1
FEB. 13...	--	0	80	2	--	90	10	--	100
APR. 11...	--	0	<20	1	--	100	5	--	<100
SEP. 12...	33	0	<25	1	8	<10	2	18	<50

DATE	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE- POSIT (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE- POSIT (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE- POSIT (UG/G)
NOV. 02...	1	--	--	--	--	50	0	--
FEB. 13...	4	--	.1	.0	--	110	0	--
APR. 11...	2	--	--	--	--	10	0	--
SEP. 12...	4	<5	.0	.0	.1	50	10	23

## EEL RIVER BASIN

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	MAX	OCT DAILY	MIN	MAX	NOV DAILY	MIN	MAX	DEC DAILY	MIN	MAX	JAN DAILY	MIN	MAX	FEB DAILY	MIN	MAX	MAR DAILY	MIN
1	--	--	--	--	12.0	--	8.5	--	7.0	6.5	--	6.0	9.0	--	7.5	11.0	--	10.0
2	--	21.5	--	--	13.5	--	7.0	--	7.0	6.5	--	6.0	8.0	--	7.0	10.0	--	9.0
3	--	--	--	--	14.0	--	7.0	--	6.5	7.0	--	6.0	7.5	--	7.5	10.0	--	9.0
4	--	19.0	--	--	16.0	--	7.0	--	7.0	6.5	--	6.0	7.5	--	7.5	9.0	--	8.0
5	--	--	--	--	12.0	--	7.5	--	5.0	6.0	--	5.0	7.5	--	7.5	9.0	--	8.5
6	--	21.0	--	--	12.0	--	5.5	--	4.5	6.5	--	5.0	9.5	--	8.5	10.0	--	9.0
7	--	--	--	--	--	--	5.0	--	4.0	5.0	--	5.0	9.5	--	8.5	11.0	--	8.5
8	--	--	--	--	12.0	--	4.0	--	3.0	5.0	--	4.5	9.5	--	9.5	9.0	--	8.0
9	--	18.5	--	10.5	--	10.0	3.5	--	1.0	6.0	--	5.0	10.5	--	9.5	11.0	--	8.5
10	--	--	--	10.0	--	9.5	1.0	--	0.5	7.0	--	6.0	9.5	--	8.5	12.0	--	11.0
11	--	18.0	--	10.0	--	9.5	1.0	--	0.5	8.5	--	6.5	8.5	--	8.0	12.0	--	10.0
12	--	17.0	--	10.0	--	9.5	1.5	--	0.5	9.0	--	8.5	8.0	--	8.0	11.5	--	10.0
13	--	17.0	--	9.5	--	9.0	2.0	--	1.0	10.0	--	9.5	9.5	--	8.0	11.0	--	9.0
14	--	17.0	--	10.0	--	9.0	2.5	--	1.0	9.5	--	9.0	9.0	--	8.5	11.0	--	9.0
15	--	16.0	--	9.5	--	9.0	3.0	--	2.0	9.0	--	8.0	9.5	--	8.5	11.0	--	9.0
16	--	15.5	--	11.0	--	9.0	5.0	--	3.0	9.5	--	9.0	9.5	--	8.5	11.0	--	10.0
17	--	19.0	--	9.0	--	9.0	7.0	--	4.5	9.0	--	8.5	10.5	--	8.5	10.5	--	9.0
18	--	18.0	--	10.0	--	9.0	8.5	--	7.0	9.0	--	8.5	10.5	--	9.0	11.0	--	9.0
19	--	17.0	--	10.0	--	9.0	9.0	--	8.5	9.5	--	8.5	11.0	--	9.0	11.0	--	8.5
20	--	17.0	--	9.5	--	9.0	10.0	--	8.5	8.5	--	8.0	11.0	--	8.5	9.0	--	8.0
21	--	19.0	--	10.0	--	9.0	11.0	--	10.0	9.0	--	8.0	11.0	--	8.5	8.5	--	7.5
22	--	17.0	--	9.0	--	9.0	11.0	--	10.5	9.0	--	8.0	10.0	--	9.0	10.0	--	8.0
23	--	19.0	--	10.0	--	9.0	10.5	--	10.0	9.0	--	7.0	10.0	--	9.0	10.5	--	9.0
24	--	20.0	--	10.0	--	9.0	10.0	--	9.0	8.0	--	7.5	10.0	--	9.0	11.0	--	10.0
25	--	19.0	--	10.0	--	10.0	9.0	--	8.5	9.0	--	8.0	10.0	--	9.0	12.0	--	10.5
26	--	16.0	--	11.0	--	10.0	8.5	--	8.0	9.0	--	7.0	10.5	--	10.0	12.0	--	11.0
27	--	13.0	--	10.0	--	10.0	8.5	--	8.0	8.0	--	6.5	10.0	--	9.0	12.0	--	11.0
28	--	13.0	--	10.0	--	10.0	8.0	--	8.0	8.0	--	7.0	10.5	--	9.5	13.0	--	10.0
29	--	--	--	10.0	--	8.5	8.0	--	7.0	8.0	--	7.0	--	--	--	12.5	--	10.0
30	--	--	--	9.0	--	8.0	7.0	--	6.0	8.5	--	7.5	--	--	--	11.0	--	10.0
31	--	12.0	--	--	--	--	7.0	--	6.0	8.5	--	8.0	--	--	--	10.0	--	9.5
MONTH	--	--	--	--	--	--	11.6	--	0.5	10.0	--	4.5	11.0	--	7.0	13.0	--	7.5
DAY	MAX	APR DAILY	MIN	MAX	MAY DAILY	MIN	MAX	JUN DAILY	MIN	MAX	JUL DAILY	MIN	MAX	AUG DAILY	MIN	MAX	SEP DAILY	MIN
1	11.5	--	9.5	17.0	--	14.5	21.0	--	17.5	24.0	--	19.5	26.0	--	23.0	23.5	--	19.5
2	11.0	--	9.5	17.5	--	15.0	22.0	--	17.5	24.5	--	20.0	26.0	--	22.5	24.0	--	19.5
3	12.0	--	10.0	17.5	--	14.5	22.0	--	18.0	25.0	--	20.0	26.0	--	22.0	23.0	--	20.0
4	13.0	--	10.0	17.0	--	15.5	23.5	--	19.0	25.0	--	21.0	26.0	--	22.0	23.5	--	20.5
5	14.0	--	12.0	18.0	--	14.5	24.0	--	20.5	25.0	--	22.0	26.0	--	23.0	23.5	--	20.5
6	15.0	--	13.0	18.0	--	14.5	24.0	--	21.0	24.0	--	21.0	27.0	--	23.5	24.0	--	21.0
7	15.0	--	12.0	18.5	--	15.5	24.5	--	21.0	25.0	--	21.0	26.5	--	23.0	23.5	--	21.5
8	14.5	--	13.0	19.5	--	14.5	--	--	--	25.0	--	21.0	25.5	--	22.5	23.5	--	20.0
9	15.0	--	13.0	20.5	--	16.0	--	--	--	25.5	--	22.0	25.5	--	22.5	23.5	--	20.0
10	15.5	--	13.0	20.0	--	16.5	--	--	--	25.0	--	22.0	25.5	--	22.5	24.0	--	21.0
11	15.5	--	14.0	20.5	--	16.5	--	--	--	25.0	--	22.0	25.5	--	22.5	23.5	--	21.0
12	14.5	--	13.5	21.5	--	16.5	22.0	--	20.0	24.0	--	21.0	25.5	--	22.5	23.5	--	20.5
13	13.5	--	12.0	22.5	--	18.0	21.5	--	19.0	24.5	--	22.0	26.0	--	23.0	22.5	--	20.5
14	12.5	--	10.5	22.0	--	18.5	21.0	--	18.0	25.0	--	22.0	26.5	--	23.5	23.5	--	20.5
15	14.5	--	12.0	21.5	--	19.0	21.5	--	18.0	25.0	--	22.0	26.5	--	22.5	23.5	--	20.5
16	13.5	--	12.5	22.5	--	18.5	20.5	--	19.5	25.0	--	22.5	25.5	--	22.5	23.0	--	20.5
17	13.5	--	11.5	24.0	--	19.5	21.0	--	18.0	25.0	--	22.0	25.0	--	23.0	24.0	--	20.0
18	11.5	--	11.0	23.0	--	20.0	22.0	--	18.0	25.5	--	22.5	25.0	--	22.0	22.5	--	21.0
19	12.5	--	10.0	21.0	--	19.0	23.0	--	19.0	24.5	--	21.5	25.0	--	21.0	21.0	--	20.0
20	14.0	--	10.5	21.0	--	18.0	24.0	--	20.0	23.5	--	20.5	25.0	--	21.0	22.0	--	19.5
21	14.5	--	11.5	21.0	--	17.0	25.0	--	22.5	23.5	--	20.5	25.0	--	21.0	23.0	--	19.5
22	15.5	--	13.5	21.0	--	17.5	25.0	--	22.0	23.5	--	19.5	24.0	--	21.0	20.5	--	19.5
23	16.5	--	12.5	20.0	--	18.5	24.5	--	22.0	23.5	--	20.0	22.0	--	20.5	21.5	--	19.0
24	16.5	--	13.0	19.0	--	18.5	24.0	--	21.0	23.5	--	20.5	22.0	--	20.0	20.5	--	18.5
25	18.0	--	14.5	20.0	--	17.0	26.5	--	22.0	24.5	--	21.5	23.5	--	19.0	21.0	--	18.0
26	18.0	--	14.5	20.0	--	16.0	27.0	--	24.0	24.5	--	22.5	24.0	--	20.0	21.5	--	18.5
27	17.5	--	15.5	21.5	--	16.5	27.0	--	24.0	26.5	--	24.0	24.0	--	20.5	22.0	--	19.0
28	17.5	--	14.5	23.0	--	19.0	27.0	--	23.0	27.0	--	24.0	24.0	--	20.0	22.5	--	19.0
29	16.5	--	14.5	24.5	--	20.0	24.5	--	22.0	27.0	--	23.5	24.5	--	21.0	22.5	--	20.0
30	16.5	--	14.5	21.0	--	19.0	23.0	--	21.0	27.0	--	23.0	24.0	--	21.0	21.5	--	20.0
31	--	--	--	20.0	--	17.5	--	--	--	27.0	--	23.0	23.5	--	21.0	--	--	--
MONTH	18.0	--	9.5	24.5	--	14.5	27.0	--	17.5	27.0	--	19.5	27.0	--	19.0	24.0	--	18.0

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	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	283	10	7.6	143	1	.39	754	5	10
2	203	5	2.7	136	1	.37	688	5	9.3
3	151	3	1.2	206	7	5.7	674	5	9.1
4	124	2	.67	2360	366	3500	1190	20	79
5	116	1	.31	3580	320	3090	1510	31	128
6	114	1	.31	1760	72	342	1260	21	71
7	108	1	.29	2590	158	1730	1400	24	91
8	95	1	.26	4430	265	3170	1400	20	76
9	90	2	.49	2260	75	458	1170	12	38
10	92	2	.50	4150	188	2130	870	7	16
11	109	3	.88	7250	1020	21500	800	6	13
12	176	5	2.4	3960	130	1390	775	5	10
13	573	29	53	2360	70	446	800	4	8.6
14	555	45	72	5870	510	8790	825	4	8.9
15	442	8	9.5	4130	220	2450	810	4	8.7
16	526	8	13	6550	486	9000	6820	1150	61000
17	724	19	37	4570	180	2220	52900	4560	670000
18	538	3	4.4	2640	46	328	26500	2100	157000
19	442	2	2.4	2880	102	880	25500	2250	168000
20	353	1	.95	3610	119	1240	15800	650	27700
21	288	1	.78	2370	30	192	10500	400	11300
22	253	1	.68	1830	25	124	19000	1470	83200
23	225	1	.61	1580	16	68	18500	850	42500
24	220	2	1.2	1300	12	42	15700	650	27600
25	200	3	1.6	1100	10	30	10700	350	10100
26	180	5	2.4	954	9	23	7600	220	4510
27	170	2	.92	913	8	20	6680	180	3280
28	155	1	.43	1010	7	19	7500	242	5010
29	157	1	.42	913	7	17	5530	110	1640
30	145	1	.39	829	6	13	4590	67	830
31	143	1	.39	--	--	--	3860	63	657
TOTAL	7954	--	219.68	78234	--	63218.46	252606	--	1274903.6
DAY	JANUARY			FEBRUARY			MARCH		
	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	3290	54	480	7740	210	4390	14000	310	11700
2	2880	43	334	6740	150	2730	12100	351	11500
3	2640	34	242	6130	120	1990	11000	356	10600
4	2360	27	172	12800	1320	78600	12700	470	16100
5	2060	25	139	35500	2380	228000	10400	383	10800
6	1850	22	110	18900	1100	56100	10800	483	14400
7	1620	18	79	14600	700	27600	10800	435	12700
8	1640	29	137	12700	480	16500	9580	280	7240
9	10700	1510	65400	11300	440	13400	8260	180	4010
10	18000	1080	57000	17100	950	43900	7640	150	3090
11	37600	3120	380000	16700	450	20300	8990	215	9220
12	64700	2900	507000	15000	500	20300	7740	130	2720
13	57900	2290	358000	12500	420	14200	6740	80	1460
14	29700	1500	120000	11300	280	8540	5970	54	870
15	20800	1030	59100	11100	260	7790	5340	47	678
16	69600	4010	802000	9040	150	3660	4920	49	651
17	54400	2080	306000	7830	125	2640	4920	48	638
18	43900	1950	237000	6960	125	2350	4510	36	438
19	35200	1520	144000	6240	120	2020	4600	67	862
20	23300	970	61000	5600	95	1440	7570	266	5520
21	20200	580	31600	4760	63	810	8890	300	7200
22	16100	300	13000	4760	56	720	9070	284	7030
23	12700	220	7540	4420	50	597	8050	195	4240
24	11100	220	6590	6220	212	5200	7140	113	2180
25	13400	353	13000	18100	972	47800	6530	80	1410
26	11300	250	7630	19000	752	40000	6050	65	1060
27	9170	155	3840	19400	850	46300	5680	60	920
28	7850	118	2500	15800	440	18800	5300	53	758
29	7950	135	2900	--	--	--	4820	40	521
30	9760	213	5610	--	--	--	6400	172	3710
31	8990	300	7280	--	--	--	10500	561	16400
TOTAL	612660	--	3199683	338240	--	716677	247010	--	166646

## EEL RIVER BASIN

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CON- CENTRA- TION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CON- CENTRA- TION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CON- CENTRA- TION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7880	200	4260	2600	33	232	679	6	11
2	6490	98	1720	2360	23	147	729	11	22
3	5490	63	934	2270	20	123	612	7	12
4	4940	50	667	2210	18	107	551	6	8.9
5	4810	45	584	2150	17	99	505	5	6.8
6	5000	48	648	1940	15	79	465	4	5.0
7	5180	58	811	1880	13	66	431	4	4.7
8	5090	70	962	1840	11	55	403	4	4.4
9	4990	70	943	1770	10	48	376	4	4.1
10	4910	65	862	1730	11	51	353	4	3.8
11	5040	65	885	1710	12	55	334	4	3.6
12	5120	88	1220	1680	9	41	318	4	3.4
13	5220	85	1200	1730	5	23	306	4	3.3
14	4910	83	1100	1840	7	35	286	4	3.1
15	3820	55	567	1900	15	77	277	4	3.0
16	3520	44	418	1850	16	80	272	4	2.9
17	3500	50	473	1810	13	64	264	4	2.9
18	3570	70	675	1750	12	57	258	4	2.8
19	3170	35	300	1630	11	48	248	4	2.7
20	2850	24	185	1480	10	40	240	4	2.6
21	2640	20	143	1300	10	35	230	4	2.5
22	2520	20	136	1200	7	23	212	3	1.7
23	2600	20	140	1110	5	15	198	3	1.6
24	2830	26	199	1050	4	11	191	3	1.5
25	2940	35	278	1090	8	24	183	3	1.5
26	3140	47	398	1190	19	61	176	3	1.4
27	3410	50	460	960	12	31	168	3	1.4
28	3410	48	442	846	10	23	157	4	1.7
29	3230	44	384	781	10	26	147	4	1.6
30	2930	40	316	729	13	26	138	4	1.5
31	--	--	--	698	6	11	--	--	--
TOTAL	125150	--	22310	49084	--	1808	9707	--	129.4
	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CON- CENTRA- TION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CON- CENTRA- TION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CON- CENTRA- TION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	133	4	1.4	54	2	.29	35	3	.28
2	126	4	1.4	57	2	.31	34	3	.28
3	121	3	.98	56	2	.30	32	4	.35
4	117	3	.95	65	2	.35	32	6	.52
5	111	3	.90	65	2	.35	29	3	.23
6	106	3	.86	62	2	.33	28	2	.15
7	100	3	.81	77	2	.42	28	2	.15
8	97	3	.79	82	2	.44	28	2	.15
9	93	3	.75	80	2	.43	28	2	.15
10	90	2	.49	65	2	.35	28	2	.15
11	88	1	.24	52	2	.28	28	2	.15
12	81	1	.22	46	2	.25	27	2	.15
13	80	1	.22	41	1	.11	26	2	.14
14	77	2	.42	39	1	.11	26	2	.14
15	76	3	.62	38	1	.10	27	2	.15
16	75	3	.61	35	1	.09	27	2	.15
17	71	3	.58	31	1	.08	27	2	.15
18	68	3	.55	31	2	.17	26	2	.14
19	65	2	.35	31	2	.17	32	5	.43
20	63	1	.17	30	2	.16	47	5	.63
21	62	1	.17	27	1	.07	51	5	.69
22	59	1	.16	27	1	.07	70	5	.95
23	58	2	.31	28	1	.08	95	7	1.8
24	58	2	.31	28	1	.08	124	10	3.3
25	58	2	.31	28	1	.08	136	8	2.9
26	57	2	.31	29	2	.16	138	5	1.9
27	57	2	.31	30	2	.16	131	4	1.4
28	56	2	.30	30	2	.16	114	4	1.2
29	54	2	.29	32	2	.17	102	5	1.4
30	52	1	.14	34	3	.28	92	5	1.2
31	51	1	.14	35	3	.28	--	--	--
TOTAL	2460	--	16.06	1365	--	6.68	1648	--	21.38
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									1726118
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)									5445639.26

## EEL RIVER BASIN

509

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1972	7954.00	219.68	0	220
NOVEMBER ...	78234.00	63218.46	1750	65000
DECEMBER ...	252606.00	1274903.60	53400	1330000
JANUARY 1973	612660.00	3199683.00	169000	3370000
FEBRUARY ...	338240.00	716677.00	61000	778000
MARCH .....	247010.00	166646.00	25200	192000
APRIL .....	125150.00	22310.00	3380	25700
MAY .....	49084.00	1808.00	6	1810
JUNE .....	9707.00	129.40	0	129
JULY .....	2460.00	16.06	0	16
AUGUST .....	1365.00	6.68	0	7
SEPTEMBER ..	1648.00	21.38	0	21
TOTAL .....	1726118.00	5445639.26	313736	5762903

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT CHARGE (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
04...	1155	15.0	2720	377	2770	62	68	80	89	96
04...	1830	16.0	4080	753	8300	45	59	70	82	90
11...	0630	9.5	7400	1570	31400	--	--	--	--	--
11...	1830	10.0	7850	855	18100	24	32	41	51	60
16...	1515	11.0	7720	400	8340	29	38	48	60	71
DEC.										
16...	2400	5.0	30800	4840	402000	--	--	--	--	--
17...	0430	5.0	42400	4650	532000	20	29	36	48	59
17...	0800	--	59000	5120	816000	25	26	33	47	64
17...	1215	--	66500	5140	923000	--	--	--	--	--
17...	1600	7.0	62000	4520	757000	--	--	--	--	--
18...	1430	--	23500	1330	84400	24	33	41	51	61
18...	2200	--	24700	2100	140000	21	28	37	46	59
20...	1155	10.0	15900	670	28800	24	34	44	54	65
JAN.										
12...	1400	8.0	63800	2370	408000	21	26	36	48	61
13...	0050	--	69000	2750	512000	--	--	--	--	--
15...	2000	8.0	20200	749	40900	23	33	42	53	64
16...	1040	--	80000	6280	1360000	24	25	28	43	57
16...	1430	--	93600	4940	1250000	22	23	34	44	58
16...	1800	--	90400	3900	952000	26	27	39	52	67
23...	0930	--	13100	225	7960	33	54	67	83	91
30...	1200	7.5	10500	363	10300	23	35	44	56	66
FEB.										
05...	0915	--	40600	2580	283000	19	26	35	46	57
09...	1630	--	11200	495	15000	16	27	34	44	50
10...	2200	--	18500	1010	40400	21	28	36	47	57
14...	1830	--	6800	128	2350	--	--	--	--	--
MAR.										
04...	0855	8.0	13500	492	17900	17	27	34	42	50
APR.										
11...	1415	14.5	5160	63	878	--	--	--	--	--
MAY										
18...	1315	20.0	1690	9	41	--	--	--	--	--

## EEL RIVER BASIN

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.										
04...	--	98	--	100	--	--	--	--	--	--
04...	--	94	--	98	--	100	--	--	--	--
11...	--	92	--	92	--	99	--	100	--	--
11...	--	67	--	77	--	93	--	100	--	--
16...	--	79	--	89	--	100	--	--	--	--
DEC.										
16...	72	--	91	--	99	--	100	--	--	--
17...	71	--	89	--	99	--	100	--	--	--
17...	79	--	92	--	99	--	100	--	--	--
17...	70	--	86	--	98	--	100	--	--	--
17...	70	--	84	--	97	--	100	--	--	--
18...	71	--	84	--	96	--	100	--	--	--
18...	70	--	94	--	95	--	100	--	--	--
20...	74	--	83	--	91	--	99	--	100	--
JAN.										
12...	74	--	88	--	98	--	100	--	--	--
13...	52	--	73	--	91	--	100	--	--	--
15...	71	--	84	--	97	--	100	--	--	--
16...	70	--	88	--	98	--	100	--	--	--
16...	71	--	88	--	99	--	99	--	100	--
16...	80	--	92	--	99	--	100	--	--	--
23...	--	98	--	100	--	--	--	--	--	--
30...	--	74	--	83	--	95	--	99	--	100
FEB.										
05...	69	--	86	--	99	--	100	--	--	--
09...	--	59	--	74	--	93	--	99	--	100
10...	--	70	--	86	--	98	--	99	--	100
18...	--	63	--	66	--	72	--	100	--	--
MAR.										
04...	--	62	--	77	--	97	--	100	--	--
APR.										
11...	--	91	--	93	--	96	--	100	--	--
MAY										
18...	--	100	--	--	--	--	--	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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
SEP.								
14...	1145	20.0	1	31	--	--	--	1
14...	1150	20.0	1	31	--	1	4	10
14...	1155	20.0	1	31	--	1	4	17
14...	1200	20.0	1	31	--	--	2	40
14...	1205	20.0	1	31	--	1	3	9
14...	1210	20.0	1	31	3	10	52	99

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
SEP.							
14...	1	3	10	34	69	100	--
14...	12	20	33	53	89	100	--
14...	29	43	58	75	94	100	--
14...	72	86	92	97	100	--	--
14...	14	18	25	37	57	75	100
14...	100	--	--	--	--	--	--



## EEL RIVER BASIN

511

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
OCT. 11...	1340	18.0	--	111	102	.00		
DEC. 14...	1415	1.5	--	828	175	.00		
JAN. 20...	1315	10.0	6	15500	292	3510	1	10
JAN. 30...	1235	7.5	5	10200	270	420	2	7
FEB. 27...	1250	9.0	5	18700	325	2910	1	13
APR. 11...	1345	14.5	5	5040	260	441	1	41
MAY 18...	1315	20.0	5	1690	236	.00		
JUL. 12...	1230	22.0	--	81	58	.00		
AUG. 22...	0935	21.0	--	27	45	.00		

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
DEC. 20...	1315	10.0	6	15500	292	3510	1	10
JAN. 30...	1235	7.5	5	10200	270	420	2	7
FEB. 27...	1250	9.0	5	18700	325	2910	1	13
APR. 11...	1345	14.5	5	5040	260	441	1	41

DATE	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. 20...	66	78	86	93	99	100	--
JAN. 30...	25	57	83	94	99	100	--
FEB. 27...	26	38	51	65	82	95	100
APR. 11...	42	99	99	100	--	--	--

## EEL RIVER BASIN

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued  
 PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
 CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PENDED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
OCT.			
02...	--	4	6
04...	--	2	3
06...	--	1	3
09...	--	2	3
11...	1340	3	2
11...	1520	3	4
12...	1430	6	7
12...	2020	5	5
13...	0100	7	8
13...	0555	9	8
13...	1025	13	10
14...	1215	36	35
14...	1650	30	25
14...	2035	17	15
15...	--	8	10
16...	--	4	5
17...	--	8	7
18...	--	3	5
19...	--	2	3
20...	--	1	2
21...	--	1	2
22...	--	1	2
23...	--	2	2
24...	--	3	2
25...	--	6	4
26...	--	1	2
27...	--	1	2
28...	--	1	2
31...	--	1	2
NOV.			
01...	--	1	2
03...	1815	6	6
03...	2200	31	25
04...	0230	59	45
04...	0630	44	45
04...	1155	377	100
04...	1830	753	180
04...	2230	696	170
05...	--	348	120
06...	1515	56	40
06...	2200	46	30
07...	--	119	80
08...	1130	236	100
08...	1515	202	100
09...	1515	57	60
09...	2150	74	65
10...	0200	118	90
10...	1515	223	100
10...	2140	186	95
11...	0155	236	100
11...	0630	1570	230
11...	1830	855	130
12...	--	171	60
13...	1515	52	25
13...	2030	63	30
14...	1515	756	100
14...	2100	608	100
15...	--	176	75
16...	1100	646	110
16...	1515	400	110
FEB.			
05...	--	2580	250
06...	--	2230	150
08...	--	445	100
09...	--	495	110
10...	--	1010	180
11...	--	418	110
13...	--	352	95
14...	--	306	100
16...	--	136	65
18...	--	128	45
21...	1730	54	30
21...	1830	58	35
23...	--	51	30
24...	--	227	90
25...	--	1330	200
26...	--	571	150
27...	1150	830	150
27...	1530	580	130
27...	1630	595	160
28...	--	479	110
MAR.			
02...	--	393	60
03...	--	390	90

DATE	TIME	SUS- PENDED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
MAR.			
04...	--	492	100
06...	--	596	90
08...	--	373	60
10...	--	123	50
12...	--	124	50
14...	--	48	30
16...	--	50	30
18...	--	46	25
20...	--	300	90
21...	--	304	90
22...	--	233	80
25...	--	75	35
27...	--	60	30
29...	--	39	20
31...	--	406	20
APR.			
01...	--	198	70
03...	--	66	35
05...	--	42	15
07...	--	64	35
09...	--	78	30
11...	1015	54	35
11...	1415	63	35
11...	2030	90	45
12...	--	86	45
13...	--	78	45
14...	--	81	40
16...	--	43	30
18...	--	58	30
19...	--	29	25
22...	--	20	15
24...	--	28	20
26...	--	50	25
27...	--	50	30
28...	--	47	35
30...	--	40	25
MAY			
02...	--	22	20
04...	--	18	15
06...	--	14	10
09...	--	10	8
11...	--	12	9
13...	--	4	6
15...	--	17	10
18...	--	9	10
20...	--	11	10
24...	--	4	4
27...	--	1	10
30...	--	1	3
31...	--	4	2
JUNE			
06...	--	4	3
11...	--	4	3
17...	--	4	2
19...	--	4	2
25...	--	3	3
30...	--	4	3
JULY			
08...	--	3	2
12...	1155	2	2
12...	1230	1	2
12...	1355	1	2
15...	--	3	2
17...	--	2	2
21...	--	1	2
24...	--	2	2
29...	--	2	2
30...	--	1	2
AUG.			
01...	--	2	2
06...	--	2	2
09...	--	2	2
15...	--	1	2
20...	--	2	2
22...	--	1	2
28...	--	2	2
30...	--	3	2
SEP.			
04...	--	6	2
08...	--	2	2
10...	--	2	2
13...	--	2	2
27...	--	4	3
29...	--	5	1

## 513

LOCATION.--Lat 40°14'14", long 123°38'95", in NW¼NE¼ sec.5, T.3 S., R.5 E., Humboldt County, at gaging station at county road bridge, 0.2 mile upstream from Conley Creek, 1.2 miles northeast of Fort Seward, and 1.6 miles upstream from mouth.

PERIOD OF RECORD.--Water temperatures: October 1972 to September 1973.  
Sediment records: October 1972 to September 1973.

Sediment concentrations: Maximum daily, 3,420 mg/l Dec. 17; minimum daily, 2 mg/l on many days.  
Sediment loads: Maximum daily, 38,700 tons Dec. 17; minimum daily, 0.04 ton on many days.

[illegible]

## EEL RIVER BASIN

11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	12	5	.16	26	13	.91	15	60	2.4
2	12	17	.55	31	17	1.4	12	55	1.8
3	20	13	.70	157	1010	775	25	116	15
4	50	5	.68	438	510	652	36	59	5.7
5	68	4	.73	86	56	13	25	30	2.0
6	68	4	.73	42	25	2.8	54	261	40
7	59	4	.64	202	123	72	49	221	29
8	55	5	.74	76	45	9.2	51	24	3.3
9	58	7	1.1	187	176	185	42	12	1.4
10	65	20	4.1	277	135	101	64	19	3.3
11	184	390	228	535	256	404	56	13	2.0
12	169	52	24	213	60	35	60	8	1.3
13	139	30	11	284	145	205	70	7	1.3
14	111	27	8.1	546	287	569	58	10	1.6
15	125	43	15	306	104	116	117	15	4.7
16	110	78	23	558	159	259	2380	2720	23800
17	114	72	22	201	50	27	4190	3420	38700
18	99	72	19	66	35	6.2	2170	2090	12200
19	83	21	4.7	441	145	167	822	720	1600
20	72	48	9.3	238	41	26	291	222	174
21	62	27	4.5	69	30	5.6	332	380	341
22	58	17	2.7	56	25	3.8	1520	1560	6510
23	57	11	1.7	42	32	3.6	1580	815	4060
24	52	9	1.3	36	33	3.2	1060	490	1400
25	44	11	1.3	30	28	2.3	550	90	134
26	36	7	.68	27	25	1.8	274	85	63
27	33	6	.53	24	24	1.6	281	157	130
28	29	6	.47	20	22	1.2	250	65	44
29	22	6	.36	20	21	1.1	150	45	18
30	19	14	.72	16	20	.86	100	58	16
31	20	8	.43	--	--	--	80	45	9.7
TOTAL	2105	--	388.92	5250	--	3651.57	16764	--	89314.5

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	70	19	3.6	95	33	8.5	959	713	2010
2	65	13	2.3	77	25	5.2	667	325	585
3	60	12	1.9	66	24	4.3	831	893	2150
4	58	10	1.6	1330	2420	16500	704	163	310
5	55	8	1.2	1490	2400	9660	517	60	84
6	52	5	.70	956	850	2190	700	388	801
7	50	6	.81	788	300	638	516	170	237
8	822	72	162	694	105	197	479	140	181
9	1370	744	2920	751	75	182	389	100	105
10	1240	220	737	1340	242	913	614	354	820
11	3310	2380	21300	1020	218	600	569	220	338
12	3920	2320	28400	963	176	458	448	60	73
13	1760	1200	5700	756	82	167	381	34	35
14	240	500	324	756	104	219	338	21	19
15	318	542	745	630	70	119	305	16	13
16	2890	2890	26200	513	40	55	287	13	10
17	1160	1110	3480	395	28	30	292	12	9.5
18	1110	880	2640	313	20	17	271	10	7.3
19	738	600	1200	257	18	12	290	71	56
20	478	390	503	213	16	9.2	398	190	204
21	395	220	235	190	14	7.2	469	213	270
22	269	178	129	150	11	4.5	397	89	95
23	200	168	91	130	10	3.5	376	44	45
24	225	202	123	600	240	389	350	28	26
25	227	113	69	400	160	173	314	21	18
26	168	64	29	1000	170	459	291	17	13
27	122	46	15	850	250	574	265	15	11
28	98	35	9.3	748	138	279	253	13	8.9
29	129	104	38	--	--	--	233	12	7.5
30	125	127	43	--	--	--	544	296	435
31	130	51	18	--	--	--	439	125	148
TOTAL	21854	--	95122.41	17471	--	33873.4	13886	--	9125.2

11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	444	78	94	86	12	2.8	36	6	.58
2	378	45	46	86	12	2.8	35	6	.57
3	334	35	32	80	12	2.6	33	6	.53
4	322	30	26	79	13	2.8	31	6	.50
5	306	25	21	79	10	2.1	30	6	.49
6	257	22	15	79	4	.85	28	6	.45
7	232	14	8.8	79	6	1.3	28	6	.45
8	252	12	8.2	71	8	1.5	27	5	.36
9	228	11	6.8	67	6	1.1	25	5	.34
10	194	11	5.8	66	5	.89	25	4	.27
11	170	9	4.1	60	5	.81	25	4	.27
12	163	8	3.5	60	6	.97	25	4	.27
13	191	26	13	59	6	.96	25	4	.27
14	170	21	9.6	56	6	.91	24	6	.39
15	152	17	7.0	54	5	.73	24	6	.39
16	151	17	6.9	51	5	.69	22	6	.36
17	179	23	11	51	6	.83	22	5	.30
18	149	11	4.4	51	6	.83	22	6	.36
19	142	8	3.1	49	5	.66	21	6	.34
20	134	10	3.6	49	5	.66	21	6	.34
21	123	14	4.6	47	4	.51	20	6	.32
22	117	12	3.8	45	4	.49	20	6	.32
23	112	11	3.3	40	4	.43	20	6	.32
24	109	12	3.5	56	6	.91	20	6	.32
25	103	12	3.3	54	6	.87	18	6	.29
26	100	14	3.8	47	6	.76	17	6	.28
27	100	12	3.2	42	6	.68	17	6	.28
28	97	9	2.4	38	6	.62	17	6	.28
29	93	9	2.3	38	6	.62	17	6	.28
30	89	12	2.9	38	6	.62	17	6	.28
31	--	--	--	38	6	.62	--	--	--
TOTAL	5591	--	362.9	1795	--	33.92	712	--	10.80

DAY	JULY			AUGUST			SEPTEMBER		
	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	17	4	.18	10	3	.08	7.8	2	.04
2	16	4	.17	10	3	.08	7.8	2	.04
3	16	3	.13	10	3	.08	7.8	3	.06
4	16	3	.13	10	3	.08	7.8	4	.08
5	15	3	.12	10	2	.05	7.8	4	.08
6	14	2	.08	9.0	2	.05	7.8	3	.06
7	14	2	.08	9.0	2	.05	7.8	2	.04
8	14	2	.08	9.0	2	.05	7.2	2	.04
9	14	2	.08	9.0	2	.05	7.2	2	.04
10	13	2	.07	9.0	2	.05	7.2	3	.06
11	13	4	.14	9.0	2	.05	7.2	3	.06
12	14	4	.15	9.0	2	.05	7.2	3	.06
13	13	4	.14	9.0	2	.05	6.6	2	.04
14	12	4	.13	9.0	2	.05	6.6	2	.04
15	12	4	.13	9.0	2	.05	6.6	2	.04
16	12	4	.13	8.0	2	.04	6.6	2	.04
17	12	4	.13	8.0	2	.04	6.6	2	.04
18	12	4	.13	8.0	2	.04	6.6	2	.04
19	11	3	.09	8.0	2	.04	13	40	1.4
20	11	3	.09	8.0	2	.04	30	120	9.7
21	11	2	.06	8.0	2	.04	16	13	.56
22	11	2	.06	7.8	2	.04	20	30	1.6
23	11	2	.06	7.8	2	.04	64	80	14
24	11	2	.06	7.8	2	.04	38	30	3.1
25	11	2	.06	8.4	2	.05	31	10	.84
26	10	2	.05	8.4	2	.05	18	8	.39
27	10	2	.05	8.4	2	.05	14	6	.23
28	10	2	.05	8.4	2	.05	12	4	.13
29	10	2	.05	8.4	2	.05	11	4	.12
30	10	4	.11	7.8	2	.04	10	2	.05
31	10	3	.08	7.8	2	.04	--	--	--
TOTAL	386	--	3.07	269.0	--	1.56	407.2	--	33.02

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

86490.2

231921.27

## EEL RIVER BASIN

11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1972	2105.00	388.92	51	440
NOVEMBER ...	5250.00	3651.57	1830	5480
DECEMBER ...	16764.00	89314.50	26300	116000
JANUARY 1973	21854.00	95122.41	34100	129000
FEBRUARY ...	17471.00	33873.40	20000	53800
MARCH .....	13886.00	9125.20	8520	17600
APRIL .....	5591.00	362.90	895	1260
MAY .....	1795.00	33.92	8	42
JUNE .....	712.00	10.80	0	11
JULY .....	386.00	3.07	0	3
AUGUST .....	269.00	1.56	0	2
SEPTEMBER ..	407.20	33.02	0	33
TOTAL .....	86490.20	231921.27	91704	323671

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

			INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	
DATE	TIME	TEMPER- ATURE (DEG C)								
OCT. 11...	0540	16.0	244	1200	791	55	58	83	94	
NOV. 03...	2150	14.0	536	1190	1720	40	53	66	83	
09...	1425	10.0	121	100	33	--	--	--	--	
DEC. 16...	1815	7.0	2650	4150	29700	23	29	37	48	
18...	1645	11.0	2350	5640	35800	18	23	30	39	
19...	1110	10.0	754	1040	2120	19	26	33	41	
JAN. 12...	2030	--	6480	4340	75900	31	34	45	58	
18...	1610	8.5	1220	1410	4650	16	20	29	35	
		SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
OCT. 11...	100	--	--	--	--	--	--	--	--	--
NOV. 03...	94	99	--	100	--	--	--	--	--	--
09...	--	--	99	--	100	--	--	--	--	--
DEC. 16...	60	71	--	86	--	97	100	--	--	--
18...	49	59	--	75	--	87	96	99	100	--
19...	48	55	--	60	--	69	82	100	--	--
JAN. 12...	73	85	--	98	--	100	--	--	--	--
18...	41	49	--	57	--	67	89	99	100	--

## EEL RIVER BASIN

517

11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
NOV. 09...	1500	10.0	47	121	47	1.4	3	8
DEC. 13...	1550	3.0	--	68	42	.00	1	5
DEC. 19...	1110	10.0	5	754	121	2130	1	5
JAN. 18...	1505	8.5	6	1180	112	1950	1	5
APR. 10...	1600	14.0	5	180	87	9.2	--	4
MAY 17...	1545	20.0	4	54	72	.10	--	19
JULY 11...	1530	22.5	--	14	28	.00		
AUG. 22...	1320	23.5	--	8.3	28	.00		

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
NOV. 09...	1500	10.0	47	121	47	1.4	3	8
DEC. 19...	1110	10.0	5	754	121	2130	1	5
JAN. 18...	1505	8.5	6	1180	112	1950	1	5
APR. 10...	1600	14.0	5	180	87	9.2	--	4
MAY 17...	1545	20.0	4	54	72	.10	--	19

DATE	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
NOV. 09...	13	32	73	99	100	--	--	--
DEC. 19...	14	26	36	51	68	76	84	100
JAN. 18...	10	25	39	53	70	91	100	--
APR. 10...	16	44	70	88	100	--	--	--
MAY 17...	59	91	100	--	--	--	--	--

## EEL RIVER BASIN

11475250 EEL RIVER AT SOUTH FORK, CALIF.

LOCATION.--Lat 40°21'04", long 123°54'48", in SE¼NE¼ sec.2, T.1 S., R.2 E., Humboldt County, 0.2 mile upstream from Northwestern Pacific Railroad Bridge, 0.4 mile north of town of South Fork, and 0.5 mile upstream from South Fork.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1973. Published as "near McCann" in 1952-53, and as "at McCann" in 1954-67.

REMARKS.--Records furnished by California Department of Water Resources. Exact sampling location subject to change due to seasonal accessibility to river. Records of discharge given for 11475000 Eel River at Fort Seward.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
OCT.												
03...	1330	151	--	--	--	--	--	--	--	--	--	--
NOV.												
14...	1400	5870	--	--	5.2	--	81	0	66	--	2.8	--
DEC.												
05...	1300	1510	--	--	5.5	--	94	0	77	--	2.3	--
JAN.												
17...	1310	54400	16	3.2	3.0	2.9	64	0	52	5.6	.5	.00
FEB.												
06...	1630	18900	--	--	3.6	--	68	0	56	--	1.7	--
MAR.												
06...	1315	10800	--	--	--	--	--	--	--	--	--	--
APR.												
03...	1320	5490	--	--	--	--	--	--	--	--	--	--
MAY												
23...	1145	1110	--	--	--	--	--	--	--	--	--	--
JUNE												
20...	1320	240	--	--	--	--	--	--	--	--	--	--
JULY												
10...	1205	90	--	--	--	--	--	--	--	--	--	--
AUG.												
08...	0720	82	--	--	--	--	--	--	--	--	--	--
SEP.												
12...	1305	27	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED SOLIDS (REST- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT.												
03...	--	--	--	--	--	--	318	7.9	19.0	2	9.3	--
NOV.												
14...	--	--	77	11	--	.3	165	7.6	10.0	175	10.8	100
DEC.												
05...	--	--	86	9	--	.3	189	7.8	6.0	12	11.9	200
JAN.												
17...	72	.10	53	0	10	.2	--	8.0	8.0	250	12.0	300
FEB.												
06...	--	--	59	3	--	.2	124	7.6	9.0	230	11.5	0
MAR.												
06...	--	--	--	--	--	--	142	7.6	9.0	95	10.2	--
APR.												
03...	--	--	--	--	--	--	153	7.6	10.0	4	10.0	--
MAY												
23...	--	--	--	--	--	--	165	7.6	19.0	3	8.9	--
JUNE												
20...	--	--	--	--	--	--	235	8.1	23.0	1	9.8	--
JULY												
10...	--	--	--	--	--	--	272	8.0	21.0	1	9.4	--
AUG.												
08...	--	--	--	--	--	--	279	7.5	19.5	0	8.3	--
SEP.												
12...	--	--	--	--	--	--	299	7.9	21.5	1	11.2	--



## EEL RIVER BASIN

519

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.  
(Hydrologic bench-mark station)

LOCATION.--Lat 39°43'47", long 123°38'34", in NW $\frac{1}{4}$ NE $\frac{1}{4}$  sec.29, T.22 N., R.16 W., Mendocino County, at gaging station 0.2 mile upstream from mouth, and 5.3 miles north of Branscomb.

DRAINAGE AREA.--6.50 sq mi.

PERIOD OF RECORD.--Chemical analyses: February 1968 to September 1973.

Water temperatures: October 1967 to September 1973.

Sediment records: Water years 1969-73 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 20.0°C May 27, 28; minimum, 2.5°C Dec. 10.

Period of record:

Water temperatures: Maximum, 21.0°C on several days in 1968 and 1969; minimum (1967-70, 1972-73), 2.5°C Dec. 10, 1972.

REMARKS.--Chemical-quality samples collected 0.2 mile downstream from gaging station. No thermograph record Dec. 11-27, 31, Jan. 9-16, Feb. 21 to Mar. 7, recorder malfunction; Jan. 28, recorder stopped.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
NOV. 09...	1530	13	14	--	50	--	11	3.5	6.3	1.0
DEC. 12...	1530	7.9	14	--	--	--	11	3.5	6.2	.5
JAN. 17...	1330	290	15	--	360	--	6.7	2.1	4.2	.5
FEB. 22...	1225	29	18	--	320	--	9.4	3.1	5.4	.5
APR. 03...	1330	32	15	10	9	0	9.3	2.8	5.4	.6
MAY 16...	1330	6.4	15	4	9	0	12	3.6	6.3	.7
JULY 10...	1300	2.0	15	10	10	10	15	4.1	6.9	.8
AUG. 28...	1700	.92	15	0	0	20	16	4.6	7.6	.9

DATE	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)
NOV. 09...	62	0	43	4.3	3.1	.1	--	.02	--	--
DEC. 12...	62	0	51	5.6	4.9	.1	--	.02	--	--
JAN. 17...	40	0	40	3.1	2.4	.2	.04	.05	.05	.00
FEB. 22...	55	0	59	3.2	1.8	.1	.01	.00	.06	.01
APR. 03...	51	0	41	5.2	2.4	.1	--	.00	--	--
MAY 16...	65	0	53	2.1	2.7	.0	--	.00	--	--
JULY 10...	74	0	61	5.1	3.0	.6	--	.08	--	--
AUG. 28...	--	0	48	7.2	.7	.2	--	.43	--	--

## EEL RIVER BASIN

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
NOV. 09...	--	--	--	.03	--	74	.10	2.68	42	0
DEC. 12...	--	--	--	.02	--	76	.10	1.62	42	0
JAN. 17...	.11	.16	.21	.09	.03	55	.07	43.1	25	0
FEB. 22...	.00	.06	.07	.03	.01	69	.09	5.40	36	0
APR. 03...	--	--	--	.02	--	66	.09	5.77	35	0
MAY 16...	--	--	--	.02	--	75	.10	1.30	45	0
JULY 10...	--	--	--	.03	--	87	.12	.46	54	0
AUG. 28...	--	--	--	.05	--	--	--	--	59	59

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
NOV. 09...	24	.4	105	7.1	9.0	--	7.9	--	--
DEC. 12...	24	.4	109	7.2	2.5	13.3	6.3	160	--
JAN. 17...	26	.4	69	7.8	9.0	11.2	1.0	--	--
FEB. 22...	24	.4	96	7.4	8.0	11.6	3.5	190	--
APR. 03...	25	.4	97	7.5	9.0	11.3	2.6	--	27
MAY 16...	23	.4	114	8.1	15.0	9.8	16	--	--
JULY 10...	21	.4	129	7.8	16.5	9.4	1.9	1600	--
AUG. 28...	22	.4	138	7.9	15.5	9.6	--	960	--

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED MOLYB- DENUM (MO) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 09...	1530	--	--	140	--	--	--	--	--	--	--	--
DEC. 12...	1530	--	--	40	--	--	--	--	--	--	--	--
JAN. 17...	1330	--	--	40	1	0	0	1	1	--	--	10
FEB. 22...	1225	--	--	40	0	0	1	0	0	--	--	10
APR. 03...	1330	--	--	0	0	0	2	2	0	--	0	0
MAY 16...	1330	--	--	40	0	0	0	4	3	--	0	10
JULY 10...	1300	0	0	70	0	0	0	1	3	2.0	0	10
AUG. 28...	1700	--	--	60	0	0	0	1	2	--	0	20

## EEL RIVER BASIN

521

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTERRER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	12.0	7.5	7.5	7.5	7.0	7.0	6.5	7.5	7.5	---	---
2	12.5	12.0	8.0	7.5	7.0	7.0	7.0	6.5	7.5	7.5	---	---
3	12.5	12.0	9.0	8.0	7.0	7.0	7.5	7.0	7.5	7.5	---	---
4	12.0	12.0	9.0	9.0	7.0	6.5	8.0	7.5	8.0	7.5	---	---
5	12.0	12.0	9.0	9.0	6.5	5.5	8.5	8.0	8.0	7.5	---	---
6	12.0	11.5	9.0	9.0	6.0	5.5	9.0	8.5	8.0	8.0	---	---
7	11.5	11.5	9.0	9.0	5.5	4.5	9.0	9.0	8.0	8.0	---	---
8	12.0	11.5	9.0	9.0	4.5	3.0	9.5	9.0	8.5	8.0	8.0	7.5
9	12.0	12.0	9.0	9.0	3.0	3.0	9.5	9.0	8.0	8.0	8.0	7.5
10	12.0	12.0	9.0	9.0	3.0	2.5	---	---	8.0	8.0	8.5	7.5
11	12.0	12.0	9.0	8.5	---	---	---	---	8.0	8.0	8.0	8.0
12	12.0	12.0	8.5	8.5	---	---	---	---	8.0	8.0	8.0	7.5
13	12.0	11.5	9.0	8.5	---	---	---	---	8.0	7.5	7.5	7.0
14	12.0	11.5	9.0	8.5	---	---	---	---	7.5	7.5	7.0	6.5
15	12.0	11.5	8.5	8.0	---	---	---	---	7.5	7.5	6.5	6.5
16	11.5	11.5	8.0	8.0	---	---	---	---	7.5	7.5	6.5	6.5
17	11.5	11.0	8.0	8.0	---	---	9.0	8.5	7.5	7.0	6.5	6.0
18	11.5	11.0	8.0	8.0	---	---	9.0	8.5	7.5	7.0	7.0	6.0
19	11.5	11.0	8.0	8.0	---	---	9.0	8.5	7.0	7.0	7.0	7.0
20	11.5	11.5	8.5	8.0	---	---	9.0	9.0	7.5	7.0	7.0	6.5
21	12.0	11.5	8.5	8.5	---	---	9.0	9.0	---	---	6.5	6.0
22	12.0	11.5	8.5	8.5	---	---	9.0	9.0	---	---	6.5	6.5
23	11.5	11.5	8.5	8.5	---	---	9.0	9.0	---	---	6.5	6.5
24	12.0	11.5	8.5	8.5	---	---	9.0	9.0	---	---	7.0	6.5
25	12.0	12.0	8.5	8.0	---	---	9.0	8.5	---	---	7.0	7.0
26	12.0	11.0	8.0	8.0	---	---	8.5	8.0	---	---	7.5	7.0
27	11.0	10.5	8.0	7.5	---	---	8.0	8.0	---	---	7.5	7.0
28	10.5	9.5	7.5	7.5	8.0	7.0	---	---	---	---	7.5	7.5
29	9.5	8.5	7.5	7.5	7.0	7.0	8.0	8.0	---	---	7.5	7.5
30	8.5	7.5	7.5	7.5	7.0	7.0	8.0	7.5	---	---	7.5	7.5
31	7.5	7.5	---	---	---	---	7.5	7.5	---	---	7.5	7.0
MONTH	12.5	7.5	9.0	7.5	---	---	---	---	---	---	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	7.0	11.5	10.0	18.5	14.5	15.5	13.5	19.0	16.0	15.0	14.0
2	7.5	7.0	11.0	10.0	18.5	14.5	15.5	13.5	19.0	16.0	14.0	13.0
3	9.0	7.0	11.0	10.0	19.5	15.5	15.5	13.0	19.0	16.5	14.0	13.0
4	9.0	7.5	10.5	10.0	19.5	16.0	15.5	12.5	19.0	17.0	14.0	13.0
5	9.0	8.5	10.5	9.5	18.5	16.0	16.0	13.0	18.0	16.0	14.0	13.5
6	9.0	8.0	10.5	10.0	18.5	15.5	16.5	13.5	17.0	16.0	14.0	13.0
7	9.0	8.5	10.5	10.0	18.5	15.5	17.5	14.0	17.5	15.5	14.0	13.0
8	9.0	8.0	11.5	9.5	18.5	15.5	17.5	14.0	17.0	15.5	14.0	13.0
9	9.5	8.5	12.0	11.0	18.0	15.5	19.0	15.0	17.0	15.5	14.0	13.5
10	10.0	9.0	12.5	11.0	17.5	14.5	18.5	15.5	17.5	15.5	13.5	12.5
11	10.0	9.0	13.0	11.0	17.0	14.5	18.0	16.0	17.0	16.0	13.5	12.5
12	9.0	8.5	13.5	11.5	15.0	14.0	19.0	16.0	17.5	15.5	13.5	12.5
13	9.0	8.0	13.5	12.0	15.0	13.5	19.5	16.5	17.5	15.5	13.0	12.5
14	9.0	8.0	14.0	12.5	14.0	12.5	19.5	16.5	18.0	15.5	12.5	12.0
15	8.5	8.5	14.0	13.0	14.0	12.0	19.0	16.5	17.5	15.5	12.0	11.5
16	8.5	7.5	15.5	13.0	12.5	12.0	18.5	16.5	16.5	15.0	12.0	11.5
17	7.5	7.5	16.5	13.5	13.5	12.5	18.5	16.0	16.5	15.0	12.0	11.5
18	8.5	7.5	16.5	13.5	14.5	11.5	18.0	15.5	16.0	14.5	12.5	12.0
19	9.0	8.0	17.0	13.0	15.0	12.0	17.0	16.0	16.0	14.0	12.0	12.0
20	9.5	8.0	18.0	14.0	14.0	12.0	16.0	15.5	15.5	14.0	12.0	12.0
21	10.0	9.0	17.5	14.5	14.5	12.0	16.5	14.5	15.0	13.5	12.0	12.0
22	10.0	9.0	18.0	15.5	14.5	12.0	16.5	14.5	14.5	13.0	12.0	12.0
23	11.0	9.5	17.0	15.5	13.0	12.0	16.5	14.5	14.0	13.0	12.0	12.0
24	12.0	10.5	17.5	14.5	12.5	12.0	18.0	14.0	13.5	13.0	12.0	12.0
25	12.5	11.5	18.5	15.0	13.0	12.0	18.0	15.0	14.0	13.0	12.0	11.5
26	12.5	11.5	19.5	16.5	11.0	11.0	19.0	16.0	14.0	13.0	11.5	11.0
27	12.0	11.0	20.0	16.5	11.0	11.0	19.0	17.0	14.0	13.5	11.0	11.0
28	11.5	11.0	20.0	17.0	15.5	12.0	19.5	16.5	15.5	13.5	11.0	10.5
29	11.0	10.5	19.0	16.5	14.0	13.0	19.5	16.5	15.5	13.5	10.5	10.0
30	11.0	10.5	17.5	15.0	11.0	14.0	19.5	17.0	15.5	14.0	10.0	10.0
31	---	---	18.5	14.5	---	---	19.5	16.5	15.0	14.5	---	---
MONTH	12.5	7.0	20.0	9.5	14.5	11.0	19.5	12.5	19.0	13.0	15.0	10.0

## EEL RIVER BASIN

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
NOV. 09...	1530	9.0	13	1	.04
DEC. 12...	1515	2.5	7.9	1	.02
JAN. 16...	0825	9.0	427	142	164
JAN. 17...	1215	9.0	311	23	19
FEB. 22...	1200	8.0	29	1	.08
APR. 03...	1315	9.0	33	2	.18
MAY 16...	1415	15.0	6.4	1	.02
JULY 10...	1400	16.5	1.9	1	.01
AUG. 28...	1700	15.5	.92	1	.00

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM
JAN. 17...	1215	9.0	311	23	19	93	93	100

## 11475800 SOUTH FORK EEL RIVER AT LEGGETT, CALIF.

LOCATION.--Lat 39°52'29", long 123°43'10", in NE¼SE¼ sec.3, T.23 N., R.17 W., Mendocino County, temperature recorder at gaging station on right bank near Standish-Hickey State Park, 0.2 mile upstream from Rock Creek, and 0.7 mile (revised) northwest of Leggett.

DRAINAGE AREA.--248 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 26.5°C July 27; minimum, 2.5°C Dec. 11-14.

Period of record:

Water temperatures: Maximum (1965-69, 1970-73), 26.5°C July 27, 1973; minimum (1965-70, 1971-73), 2.5°C Dec. 11-14, 1972.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	17.5	12.5	12.0	8.0	7.5	6.5	6.0	8.0	8.0	9.5	9.5
2	19.5	17.0	14.0	12.5	7.5	7.5	6.0	6.0	8.5	8.0	9.5	9.0
3	19.5	17.0	12.5	12.5	8.0	7.5	6.0	6.0	8.5	8.5	9.0	9.0
4	18.5	18.0	13.0	12.5	8.0	7.0	6.0	5.0	8.5	8.5	9.0	9.0
5	19.5	17.5	12.5	11.5	7.0	6.5	5.0	4.5	9.5	8.5	9.0	9.0
6	19.5	17.0	11.5	11.0	6.5	6.0	5.0	4.5	10.0	9.5	9.0	9.0
7	19.0	17.0	11.0	10.5	6.0	5.0	4.5	4.5	10.0	10.0	9.0	9.0
8	18.5	17.0	10.5	10.5	5.0	3.5	5.0	4.5	10.0	10.0	9.5	9.0
9	18.0	17.5	10.5	10.5	3.5	3.0	7.0	5.0	10.0	10.0	10.5	9.5
10	18.0	17.5	10.5	10.0	3.0	3.0	8.0	7.0	10.0	10.0	10.5	10.5
11	18.0	17.0	10.5	10.5	3.0	2.5	9.0	8.0	10.0	9.5	10.5	9.5
12	18.5	17.5	10.5	10.0	2.5	2.5	9.5	8.0	9.5	9.0	10.0	9.5
13	18.5	17.0	10.0	10.0	3.0	2.5	10.0	9.5	9.5	9.0	10.0	9.5
14	17.5	16.5	10.0	10.0	3.0	2.5	10.0	9.5	9.0	8.5	9.5	9.0
15	17.5	16.5	10.0	9.5	3.5	3.0	9.5	9.5	8.5	8.5	10.0	9.0
16	17.0	16.5	9.5	9.5	5.5	3.5	9.5	9.5	8.5	8.5	10.0	10.0
17	18.0	16.5	9.5	9.0	9.0	5.5	9.5	9.5	9.0	8.5	10.0	9.5
18	18.0	16.5	9.5	9.0	10.0	9.0	9.5	9.0	9.0	9.0	9.5	9.5
19	17.5	16.0	10.0	9.5	10.0	9.5	9.5	9.0	9.0	9.0	9.5	9.5
20	17.5	15.5	10.0	9.5	10.5	10.0	9.0	8.5	9.0	8.5	9.5	9.0
21	17.5	15.5	9.5	9.5	11.0	10.5	9.0	8.5	9.0	9.0	9.0	8.5
22	16.5	16.0	10.0	9.5	11.0	11.0	9.0	9.0	9.0	9.0	9.5	8.5
23	17.5	16.0	9.5	9.0	11.0	10.5	9.0	8.5	9.0	9.0	10.0	9.0
24	17.0	15.5	9.0	8.5	10.5	9.5	8.5	8.0	9.0	9.0	10.5	9.5
25	16.5	14.5	8.5	8.5	9.5	9.0	8.0	8.0	9.5	9.0	11.0	10.5
26	16.0	14.0	9.0	8.5	9.5	8.5	8.0	7.0	9.5	9.5	12.0	11.0
27	15.5	14.0	9.0	8.5	9.0	8.5	7.0	7.0	9.5	9.5	11.5	10.5
28	14.5	13.5	9.0	8.5	8.5	7.5	7.5	7.0	9.5	9.5	11.5	10.5
29	14.0	12.0	8.5	8.5	7.5	7.0	8.0	7.0	---	---	11.0	10.5
30	13.0	11.5	8.5	8.0	7.0	7.0	8.0	8.0	---	---	10.5	10.5
31	13.0	11.5	---	---	7.0	6.5	8.0	8.0	---	---	10.5	10.0
MONTH	19.5	11.5	14.0	8.0	11.0	2.5	10.0	4.5	10.0	8.0	12.0	8.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.0	17.0	14.0	21.0	16.0	25.0	18.0	25.5	19.5	22.5	17.0
2	11.0	10.0	17.5	14.5	22.0	16.0	24.5	18.5	25.0	19.5	22.0	17.5
3	11.5	10.0	17.5	14.5	22.0	16.0	24.5	18.5	25.0	20.0	23.0	17.5
4	11.5	11.0	16.5	14.5	23.5	17.0	25.5	19.0	25.0	19.5	23.5	18.0
5	12.0	11.5	17.5	14.5	23.5	17.5	24.0	19.0	25.5	19.5	21.0	18.5
6	12.5	12.0	17.5	14.5	23.5	18.0	23.5	17.5	24.5	19.0	22.0	17.5
7	12.5	12.5	18.0	14.5	23.5	18.0	24.0	18.0	24.5	19.0	21.5	18.5
8	12.5	12.5	18.5	14.5	24.5	17.5	25.0	19.0	24.5	19.5	21.5	17.0
9	12.5	12.5	19.0	15.0	22.5	17.0	25.0	19.0	24.5	19.5	22.5	18.0
10	13.0	12.5	18.5	14.5	23.0	17.0	24.0	19.0	24.5	19.5	21.5	18.5
11	13.5	13.0	19.5	14.5	23.5	17.5	24.0	18.0	25.0	19.0	22.5	18.5
12	13.5	13.5	20.0	14.5	20.5	18.0	25.5	18.5	25.5	19.5	23.5	18.5
13	13.5	12.5	19.5	15.0	21.5	17.5	26.0	20.0	25.5	19.5	22.5	18.0
14	12.5	12.0	20.5	15.5	22.5	16.5	26.0	19.0	24.5	20.0	22.0	18.5
15	12.5	12.0	21.0	15.5	22.5	16.5	25.5	20.0	24.0	19.0	23.0	19.0
16	12.5	12.5	21.0	16.0	19.5	17.5	25.0	19.0	22.5	19.0	22.5	19.0
17	12.5	12.5	23.0	17.0	21.5	17.0	23.0	19.0	25.0	17.5	22.0	18.5
18	12.5	12.0	22.0	17.0	22.0	16.5	23.0	18.0	25.5	19.0	20.5	18.5
19	12.5	12.0	21.5	16.0	22.5	17.0	24.0	18.0	21.0	19.0	20.5	19.5
20	13.0	12.0	21.0	15.5	25.0	17.5	23.0	19.0	20.5	18.5	21.0	19.0
21	13.5	12.5	23.0	16.0	23.5	18.5	23.5	18.5	22.0	17.5	22.5	19.0
22	14.0	12.5	22.0	17.0	23.5	18.5	23.0	17.5	22.0	17.5	20.5	18.5
23	14.5	13.0	22.5	17.5	20.5	18.5	22.5	17.0	22.0	18.0	20.5	18.5
24	15.0	13.5	23.5	17.5	19.0	17.5	24.0	18.0	20.5	18.0	20.0	18.5
25	16.0	13.5	25.5	18.5	21.0	17.0	25.0	19.0	22.0	17.5	21.0	17.5
26	16.0	13.5	26.0	20.0	21.0	16.0	26.0	20.0	23.5	18.5	22.0	17.5
27	16.5	14.5	25.5	20.0	22.5	16.0	26.5	20.5	23.5	19.0	21.5	17.0
28	17.0	14.5	24.5	19.0	23.0	16.5	25.5	20.0	23.5	18.5	22.0	17.0
29	17.0	14.5	23.5	17.5	23.5	17.5	26.0	20.0	24.5	19.0	22.0	17.0
30	17.0	14.5	19.0	16.5	23.0	17.0	26.0	20.0	23.0	19.0	19.5	17.5
31	---	---	21.5	16.0	---	---	26.0	20.0	21.5	17.5	---	---
MONTH	17.0	10.0	26.0	14.0	25.0	16.0	26.5	17.0	25.5	17.5	23.5	17.0

## EEL RIVER BASIN

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CALIF.

LOCATION.--Lat 40°10'55", long 123°46'30", in NW $\frac{1}{4}$  sec.30, T.3 S., R.4 E., Humboldt County, at gaging station, at Sylvandale Campgrounds on U.S. Highway 101, 0.5 mile upstream from Rocky Glen Creek, 4.3 miles southeast of Miranda, and 20 miles upstream from mouth.

DRAINAGE AREA.--537 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1973.

Water temperatures: November 1960 to September 1973.

Sediment records: Water years 1955-62 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 28.5°C June 26; minimum, 3.0°C Dec. 12.

Period of record:

Water temperatures (1960-64, 1965-73): Maximum (1960-61, 1963-64, 1965-68, 1970-73), 34.0°C July 25, 1964;

minimum (1960-64, 1965-70, 1972-73), 1.0°C Jan. 20, 21, 1963.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Jan. 19-30, Mar. 9 to Apr. 19, Apr. 27 to May 17, recorder stopped.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)
OCT.									
03...	1415	92	--	--	--	--	--	--	--
NOV.									
14...	1430	2770	5.4	63	0	52	3.7	.14	.01
DEC.									
05...	1345	712	--	--	--	--	--	--	--
JAN.									
17...	1345	18900	--	--	--	--	--	--	--
FEB.									
06...	1700	7540	--	--	--	--	--	--	--
MAR.									
06...	1350	4340	--	--	--	--	--	--	--
APR.									
03...	1400	2070	--	--	--	--	--	--	--
MAY									
23...	1220	256	--	--	--	--	--	--	--
JUNE									
20...	1400	138	--	--	--	--	--	--	--
JULY									
10...	1245	89	--	--	--	--	--	--	--
AUG.									
08...	0845	51	--	--	--	--	--	--	--
SEP.									
12...	1340	85	--	--	--	--	--	--	--

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT.									
03...	--	--	--	255	8.1	21.0	0	11.6	--
NOV.									
14...	52	0	.3	127	7.4	10.5	90	10.4	100
DEC.									
05...	--	--	--	159	7.8	7.0	6	12.7	--
JAN.									
17...	--	--	--	90	7.4	9.0	550	11.0	--
FEB.									
06...	--	--	--	107	7.3	10.0	210	10.7	--
MAR.									
06...	--	--	--	112	7.3	10.0	80	10.2	--
APR.									
03...	--	--	--	125	7.3	11.0	15	10.3	--
MAY									
23...	--	--	--	192	8.2	19.5	0	11.5	--
JUNE									
20...	--	--	--	208	8.7	24.5	1	11.1	--
JULY									
10...	--	--	--	229	8.6	22.0	1	11.6	--
AUG.									
08...	--	--	--	209	8.2	20.5	1	7.0	--
SEP.									
12...	--	--	--	223	8.2	21.0	1	14.2	--

## EEL RIVER BASIN

525

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	17.0	12.0	11.0	10.5	9.5	7.5	6.5	9.0	8.5	11.5	10.0
2	18.5	15.5	14.0	12.0	10.0	10.0	7.0	6.5	8.5	8.0	11.5	9.5
3	19.5	16.5	14.0	13.5	10.0	10.0	7.0	6.5	8.5	7.5	10.5	9.5
4	17.5	17.0	14.0	13.0	10.0	7.5	6.5	6.0	9.0	8.0	10.5	9.5
5	19.0	16.5	13.0	12.5	7.5	6.5	6.0	5.5	9.0	8.5	11.0	9.5
6	18.5	15.5	13.0	12.0	7.5	6.0	6.0	5.5	8.5	8.0	11.0	9.5
7	18.0	15.5	12.5	12.0	7.0	6.0	6.0	5.5	9.5	8.5	10.0	9.5
8	17.5	15.5	12.0	11.5	6.0	4.5	6.5	5.5	9.5	9.0	11.5	9.5
9	17.5	16.5	12.0	11.5	5.5	4.0	7.0	6.5	10.0	9.5	---	---
10	16.5	15.5	12.0	11.5	4.5	3.5	9.0	7.5	10.0	9.5	---	---
11	15.5	15.0	12.0	11.0	4.0	3.5	9.5	8.5	9.5	8.5	---	---
12	15.0	14.5	11.5	10.5	4.0	3.0	10.5	9.5	9.5	9.0	---	---
13	17.0	15.0	11.5	11.0	4.5	4.0	10.5	10.0	9.0	8.5	---	---
14	17.0	16.0	11.5	11.0	5.0	4.5	10.0	9.5	9.0	8.5	---	---
15	17.5	15.5	11.0	10.5	5.5	4.0	9.5	9.5	10.0	9.0	---	---
16	17.0	16.0	10.5	10.0	8.0	5.0	9.5	9.5	10.0	9.0	---	---
17	18.0	16.0	10.5	9.5	10.0	7.5	9.5	9.0	10.0	8.5	---	---
18	18.0	16.0	11.5	10.0	11.5	10.0	9.5	9.0	10.0	8.5	---	---
19	17.0	15.0	11.5	11.0	12.0	11.5	---	---	9.5	8.5	---	---
20	16.5	14.0	11.5	10.5	12.5	12.0	---	---	9.5	8.0	---	---
21	17.0	13.5	11.5	10.5	13.0	12.5	---	---	9.5	8.5	---	---
22	16.0	15.0	11.5	11.0	13.0	12.0	---	---	9.5	8.5	---	---
23	17.5	15.0	11.5	10.5	12.0	11.5	---	---	9.5	8.5	---	---
24	17.0	15.0	11.0	10.5	11.5	10.5	---	---	9.5	8.5	---	---
25	16.0	14.0	11.0	10.0	10.5	9.5	---	---	10.0	9.5	---	---
26	15.5	14.5	11.5	10.0	10.0	9.5	---	---	10.5	9.5	---	---
27	14.5	12.5	11.5	11.0	9.5	9.0	---	---	10.5	10.0	---	---
28	13.0	11.5	11.5	10.0	9.0	8.5	---	---	10.5	10.0	---	---
29	13.0	10.5	10.5	10.0	8.5	7.5	---	---	---	---	---	---
30	11.5	10.0	10.5	10.0	8.0	7.5	---	---	---	---	---	---
31	11.5	10.0	---	---	8.0	7.0	8.5	7.5	---	---	---	---
MONTH	19.5	10.0	14.0	9.5	13.0	3.0	---	---	10.5	7.5	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	20.5	17.5	23.5	17.5	26.5	20.5	22.0	16.5
2	---	---	---	---	21.0	17.0	24.0	18.0	26.0	20.5	22.0	17.5
3	---	---	---	---	22.0	17.5	24.5	18.0	25.5	20.5	23.5	18.0
4	---	---	---	---	24.0	18.0	25.0	18.5	25.0	19.5	23.5	19.0
5	---	---	---	---	25.0	19.5	24.5	20.5	26.0	20.5	22.5	19.5
6	---	---	---	---	24.5	19.5	24.0	19.0	26.0	21.0	23.5	19.5
7	---	---	---	---	24.5	18.5	24.5	19.5	26.0	21.5	22.5	19.5
8	---	---	---	---	25.0	18.5	25.0	19.5	25.5	21.0	22.0	16.5
9	---	---	---	---	24.0	19.0	25.5	19.5	25.0	21.0	23.5	17.5
10	---	---	---	---	23.0	17.0	24.0	20.5	24.5	20.5	21.5	18.5
11	---	---	---	---	23.5	17.5	24.0	19.5	24.0	19.5	22.0	19.0
12	---	---	---	---	21.5	19.0	24.0	18.5	24.0	19.5	22.0	18.0
13	---	---	---	---	22.5	18.0	26.5	19.5	24.5	20.0	21.5	18.5
14	---	---	---	---	22.0	17.0	26.5	21.5	26.0	20.0	22.5	18.0
15	---	---	---	---	23.0	17.0	26.5	21.5	25.5	21.0	22.5	19.5
16	---	---	---	---	20.5	18.0	26.0	21.5	23.5	19.5	22.5	18.5
17	---	---	---	---	21.5	17.0	26.0	21.5	23.5	19.0	23.5	18.5
18	---	---	23.5	19.5	22.5	16.5	25.5	21.0	22.5	18.0	22.5	19.5
19	---	---	20.5	18.5	24.0	17.0	24.5	21.0	22.5	17.0	21.0	19.5
20	15.5	12.5	20.5	17.0	26.5	18.5	23.5	20.5	23.0	18.5	22.0	20.0
21	16.0	13.0	21.0	16.5	26.5	21.5	23.5	19.5	23.0	18.5	23.0	19.5
22	16.5	13.5	21.5	17.5	26.0	21.0	23.5	18.5	22.0	17.0	21.0	19.0
23	16.5	13.0	21.0	19.0	25.5	21.0	23.5	18.0	21.5	17.5	21.0	19.0
24	17.0	13.5	19.5	18.0	26.0	20.0	24.0	17.5	20.5	19.0	20.5	19.5
25	18.0	14.5	20.0	17.0	28.0	21.5	25.0	18.5	22.5	17.5	20.5	18.0
26	18.5	15.0	20.0	16.5	28.5	23.0	26.0	19.5	23.5	18.5	21.5	17.0
27	---	---	21.5	18.0	27.5	22.0	27.5	22.5	22.5	19.5	21.5	17.5
28	---	---	23.0	18.5	26.0	21.0	27.5	23.0	23.0	17.5	22.0	18.0
29	---	---	24.0	20.0	24.5	19.5	27.5	22.5	23.5	18.5	22.0	19.0
30	---	---	20.0	18.0	23.5	18.5	27.0	21.5	22.5	18.0	19.5	18.0
31	---	---	20.5	17.5	---	---	26.5	20.5	21.5	19.0	---	---
MONTH	---	---	---	---	28.5	16.5	27.5	17.5	26.5	17.0	23.5	16.5

## EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CALIF.  
(International Hydrological Decade Station)

LOCATION.--Lat 40°29'30", long 124°05'55", in SW $\frac{1}{4}$  sec.5, T.1 N., R.1 E., Humboldt County, at gaging station at bridge on U.S. Highway 101, 0.5 mile north of Scotia, and 6 miles upstream from Van Duzen River.

DRAINAGE AREA.--3,113 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1973.  
Water temperatures: October 1957 to September 1973.  
Sediment records: Water years 1955-57 (partial-record station), October 1957 to September 1973.  
Turbidity: Water years 1965-68, 1972-73 (partial-record station).

## EXTREMES.--1972-73:

Water temperatures: Minimum, 2.0°C Dec. 11.  
Sediment concentrations: Maximum daily, 3,980 mg/l Dec. 17; minimum daily, 1 mg/l on many days.  
Sediment discharge: Maximum daily, 1,060,000 tons Dec. 17; minimum daily, 0.22 ton Sept. 7.

## Period of record:

Water temperatures: Maximum (1960-64, 1965-72), 25.0°C Aug. 21, 22, 1971; minimum, 2.0°C Dec. 11, 1972.  
Sediment concentrations: Maximum daily, 33,000 mg/l (estimated) Dec. 23, 1964; minimum daily, 1 mg/l on many days in 1958-64, 1966-67, 1970, 1972-73.  
Sediment discharge: Maximum daily, 57,000,000 tons (estimated) Dec. 23, 1964; minimum daily, 0.22 tons Sept. 7, 1973.

REMARKS.--Selected chemical quality samples collected by California Department of Water Resources. No thermograph record June 11-27, recorder stopped; Aug. 9, 10, recorder malfunction. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (Ca) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)
OCT.											
03...	1245	--	406	8.2	10	38	10	8.7	1.4	136	0
NOV.											
02...	1220	--	342	--	--	--	--	--	--	--	--
14...	1300	--	8680	10	70	19	5.6	6.1	.9	79	0
DEC.											
05...	1215	--	3250	9.4	9	23	6.9	6.2	.9	98	0
JAN.											
17...	1230	--	104000	9.7	40	12	3.1	4.1	.8	58	0
FEB.											
06...	1545	--	35700	11	30	14	3.9	4.5	.8	67	0
13...	1500	--	21500	--	--	--	--	--	--	--	--
MAR.											
06...	1215	--	18500	11	40	16	5.6	4.9	.8	76	0
APR.											
03...	1215	--	9400	11	50	17	5.7	5.2	.9	80	0
12...	0900	--	6790	--	--	--	--	--	--	--	--
MAY											
23...	1050	--	1590	9.6	9	23	6.3	5.3	.9	103	0
JUNE											
20...	0830	--	506	14	10	18	6.9	5.0	1.2	95	0
JULY											
10...	1115	E245	--	8.9	10	34	9.8	8.2	1.3	150	0
AUG.											
08...	0655	E200	--	7.4	10	38	10	9.2	1.5	164	2
SEP.											
12...	1215	E140	--	7.6	0	43	12	10	1.7	177	0
13...	0830	E120	--	--	--	--	--	--	--	--	--

DATE	ALKA- LITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)
OCT.											
03...	112	30	8.2	.2	--	--	.04	--	--	--	--
NOV.											
02...	--	--	--	--	.08	.00	.08	--	--	.00	.22
14...	65	13	5.3	.1	--	--	.30	--	--	--	--
DEC.											
05...	80	16	4.0	.1	--	--	.04	--	--	--	--
JAN.											
17...	48	5.3	1.9	.2	--	--	.08	--	--	--	--
FEB.											
06...	55	7.0	2.5	.1	--	--	.05	--	--	--	--
13...	--	--	--	--	.04	.00	.04	--	.03	.03	.27
MAR.											
06...	62	9.7	3.0	.1	--	--	.04	--	--	--	--
APR.											
03...	66	8.9	3.3	.0	--	--	.04	--	--	--	--
12...	--	--	--	--	.01	.00	.01	--	.09	--	.08
MAY											
23...	84	11	2.6	.1	--	--	.01	--	--	--	--
JUNE											
20...	77	9.7	2.9	.0	--	--	.00	--	--	--	--
JULY											
10...	123	19	7.0	.1	--	--	.02	--	--	--	--
AUG.											
08...	138	19	5.3	.1	--	--	.00	--	--	--	--
SEP.											
12...	145	20	7.5	.2	--	--	.01	--	--	--	--
13...	--	--	--	--	.06	.00	.06	4.5	.06	--	.12

E Estimated.



11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL NITRO- GEN IN BOTTOM DEPOS- ITS (N) (MG/KG)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM DE- POSITS (MG/KG)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT.											
03...	--	.03	--	--	--	172	.23	140	24	12	.3
NOV.											
02...	.22	.02	--	.00	--	--	--	--	--	--	--
14...	--	.25	--	--	--	101	.14	70	6	16	.3
DEC.											
05...	--	.06	--	--	--	115	.16	86	5	13	.3
JAN.											
17...	--	.70	--	--	--	66	.09	43	0	17	.3
FEB.											
06...	--	.44	--	--	--	77	.10	51	0	16	.3
13...	.30	.26	--	.02	--	--	--	--	--	--	--
MAR.											
06...	--	.17	--	--	--	89	.12	63	1	14	.3
APR.											
03...	--	.08	--	--	--	92	.13	66	1	14	.3
12...	.17	.09	--	.02	--	--	--	--	--	--	--
MAY											
23...	--	.02	--	--	--	110	.15	84	0	12	.3
JUNE											
20...	--	.02	--	--	--	105	.14	74	0	13	.3
JULY											
10...	--	.02	--	--	--	163	.22	130	3	12	.3
AUG.											
08...	--	.01	--	--	--	174	.24	140	0	13	.3
SEP.											
12...	--	.15	--	--	--	190	.26	160	12	12	.3
13...	.18	.03	70	.05	1	--	--	--	--	--	--

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MA- TERIAL (C) (G/KG)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)
OCT.											
03...	298	8.0	19.0	5	10.7	2.2	--	--	200	0	370
NOV.											
02...	305	--	15.5	--	--	--	1.0	--	--	--	--
14...	162	7.4	11.0	80	10.5	5.0	--	--	120	0	210
DEC.											
05...	192	7.5	7.0	20	11.9	5.0	--	--	80	0	290
JAN.											
17...	100	7.9	8.5	500	11.3	1.2	--	--	60	0	150
FEB.											
06...	123	7.5	9.0	200	11.0	3.4	--	--	60	0	160
13...	135	--	9.5	--	--	--	3.0	--	--	--	--
MAR.											
06...	146	7.4	10.0	80	10.0	4.8	--	--	20	0	170
APR.											
03...	150	7.4	12.0	30	10.5	5.1	--	--	80	0	200
12...	156	--	15.0	--	--	--	1.0	--	--	--	--
MAY											
23...	146	7.9	19.0	2	9.7	2.1	--	--	80	0	290
JUNE											
20...	170	7.6	18.0	2	9.1	2.4	--	--	60	0	130
JULY											
10...	284	8.1	21.0	1	10.7	1.9	--	--	120	0	430
AUG.											
08...	298	7.9	19.0	1	8.0	3.4	--	--	130	0	430
SEP.											
12...	324	--	18.0	2	10.9	--	--	--	140	0	480
13...	315	--	--	--	--	--	3.0	2.3	--	--	--

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)
FEB.										
13...	1500	.00	--	.0	--	.00	--	.01	--	.01
APR.										
12...	0900	.00	--	.0	--	.00	--	.00	--	.00
SEP.										
13...	0830	.00	.0	.0	0	.00	.0	.00	.0	.00

## EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
FEB. 13...	--	.00	.00	--	.00	--	.00	--	.00	--
APR. 12...	--	.00	.00	--	.00	--	.00	--	.00	--
SEP. 13...	.0	.00	.00	.0	.00	.0	.00	.0	.00	.0

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
FEB. 13...	.00	--	.00	.00	.00	.0	--	.00	.00	.00
APR. 12...	.00	--	.00	.00	.00	.0	--	.00	.00	.00
SEP. 13...	.00	.0	.00	.00	.00	.0	0	.00	.00	.00

## ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE- POSITS (UG/G)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)
NOV. 02...	1220	3	--	0	1	1	--	0
FEB. 13...	1500	2	--	0	40	0	--	0
APR. 12...	0900	3	--	0	0	0	--	0
SEP. 13...	0830	1	3	1	0	0	0	0

DATE	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE- POSITS (UG/G)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	TOTAL LEAD (PB) (UG/L)
NOV. 02...	--	0	0	0	--	7	3	--	2
FEB. 13...	--	0	80	2	--	60	4	--	100
APR. 12...	--	0	<20	1	--	100	4	--	<100
SEP. 13...	20	0	<25	2	5	<10	2	15	<50

DATE	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE- POSITS (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE- POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE- POSITS (UG/G)
NOV. 02...	1	--	--	--	--	50	0	--
FEB. 13...	2	--	.1	.0	--	60	0	--
APR. 12...	2	--	--	--	--	10	10	--
SEP. 13...	1	<5	.0	.0	.0	70	10	17

## EEL RIVER BASIN

529

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	18.5	-- 17.0	13.0	-- 12.0	10.5	-- 10.0	7.0	-- 7.0	8.0	-- 7.5	10.0	-- 10.0
2	18.0	-- 16.0	14.5	-- 12.5	10.0	-- 10.0	7.0	-- 6.5	7.5	-- 7.5	10.0	-- 10.0
3	19.0	-- 16.5	14.5	-- 14.0	10.0	-- 9.5	6.5	-- 6.5	8.0	-- 7.5	10.0	-- 10.0
4	18.0	-- 17.0	14.5	-- 14.0	10.0	-- 8.5	6.5	-- 6.0	8.0	-- 8.0	10.0	-- 9.5
5	19.0	-- 16.5	14.0	-- 13.5	8.5	-- 7.0	6.0	-- 5.5	8.5	-- 8.0	10.0	-- 9.5
6	18.5	-- 15.5	13.5	-- 13.0	7.0	-- 6.5	6.0	-- 5.5	9.0	-- 8.5	10.0	-- 9.5
7	18.5	-- 16.0	13.0	-- 12.5	6.5	-- 6.0	6.0	-- 5.5	9.0	-- 9.0	10.0	-- 10.0
8	18.0	-- 16.5	12.5	-- 12.0	6.0	-- 4.5	5.5	-- 5.5	9.0	-- 9.0	10.5	-- 9.5
9	18.0	-- 17.0	12.0	-- 11.5	4.5	-- 3.5	6.5	-- 5.5	9.5	-- 9.0	11.0	-- 10.0
10	18.0	-- 17.0	12.0	-- 11.5	3.5	-- 2.5	6.5	-- 6.5	9.5	-- 9.5	11.0	-- 11.0
11	17.0	-- 15.5	11.5	-- 11.0	2.5	-- 2.0	7.5	-- 6.5	9.5	-- 9.0	11.0	-- 10.5
12	16.5	-- 15.0	11.0	-- 11.0	3.0	-- 2.5	8.0	-- 7.5	9.0	-- 9.0	10.5	-- 10.0
13	17.0	-- 15.5	11.0	-- 11.0	3.0	-- 2.5	8.5	-- 8.0	9.0	-- 8.5	10.0	-- 10.0
14	16.5	-- 16.0	11.0	-- 11.0	3.0	-- 2.5	8.5	-- 8.5	8.5	-- 8.0	10.5	-- 9.5
15	17.0	-- 16.0	11.0	-- 10.5	5.0	-- 3.0	8.5	-- 8.0	8.5	-- 8.5	10.5	-- 10.0
16	16.5	-- 16.0	10.5	-- 10.0	6.0	-- 5.0	8.5	-- 8.5	8.5	-- 8.0	10.5	-- 10.5
17	17.0	-- 16.0	10.0	-- 9.5	8.0	-- 6.0	8.5	-- 8.5	8.5	-- 8.5	10.5	-- 10.0
18	17.0	-- 16.0	9.5	-- 9.5	9.5	-- 8.0	8.5	-- 8.5	8.5	-- 8.5	10.5	-- 10.0
19	17.0	-- 15.5	10.0	-- 9.5	10.0	-- 9.5	8.5	-- 7.5	8.5	-- 8.0	10.5	-- 9.5
20	15.5	-- 15.0	10.0	-- 10.0	10.5	-- 10.0	7.5	-- 6.5	8.5	-- 8.0	9.5	-- 9.5
21	16.5	-- 14.5	10.0	-- 9.5	11.0	-- 10.5	7.0	-- 6.5	8.5	-- 8.0	9.5	-- 9.0
22	16.5	-- 15.5	10.0	-- 9.5	11.0	-- 11.0	7.0	-- 7.0	8.5	-- 8.5	9.5	-- 8.5
23	16.0	-- 15.0	10.5	-- 10.0	11.0	-- 11.0	7.0	-- 7.0	9.5	-- 8.5	10.5	-- 9.5
24	17.0	-- 15.0	10.5	-- 10.0	11.0	-- 10.0	7.0	-- 7.0	10.0	-- 9.5	11.0	-- 10.5
25	16.5	-- 14.0	10.5	-- 10.0	10.0	-- 9.5	7.0	-- 6.5	10.0	-- 10.0	11.5	-- 11.0
26	16.0	-- 15.0	10.5	-- 10.0	9.5	-- 9.0	7.5	-- 6.5	10.0	-- 10.0	11.5	-- 11.5
27	15.5	-- 13.5	11.0	-- 10.5	9.0	-- 8.5	6.5	-- 6.0	10.0	-- 10.0	11.5	-- 11.0
28	14.5	-- 13.0	11.0	-- 10.0	8.5	-- 8.0	6.5	-- 6.0	10.0	-- 10.0	11.5	-- 11.0
29	14.0	-- 12.5	10.5	-- 10.5	8.0	-- 7.5	6.5	-- 6.0	--	--	11.5	-- 11.0
30	13.0	-- 11.5	10.5	-- 10.0	7.5	-- 7.0	7.5	-- 6.5	--	--	11.0	-- 11.0
31	13.0	-- 11.0	--	--	7.5	-- 7.0	8.0	-- 7.5	--	--	11.0	-- 10.5
MONTH	19.0	-- 11.0	14.5	-- 9.5	11.0	-- 2.0	8.5	-- 5.5	10.0	-- 7.5	11.5	-- 8.5
DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	10.5	-- 10.0	15.0	-- 14.0	17.5	-- 16.0	20.5	-- 17.0	21.5	-- 19.5	19.0	-- 16.0
2	11.0	-- 10.0	15.0	-- 14.0	18.0	-- 16.0	21.0	-- 18.0	21.5	-- 19.5	19.0	-- 16.5
3	11.5	-- 10.5	16.0	-- 14.0	18.5	-- 16.5	21.0	-- 18.0	21.0	-- 19.0	19.0	-- 16.5
4	12.5	-- 11.0	16.0	-- 15.0	19.5	-- 17.0	22.0	-- 18.5	21.0	-- 19.0	19.0	-- 17.0
5	13.0	-- 12.0	15.0	-- 14.0	20.5	-- 18.5	21.0	-- 19.0	22.0	-- 19.5	19.0	-- 17.5
6	13.5	-- 12.5	15.5	-- 14.5	21.0	-- 18.5	20.5	-- 18.0	21.0	-- 19.0	20.0	-- 18.0
7	14.0	-- 13.0	15.5	-- 15.0	20.5	-- 19.0	20.5	-- 18.5	21.5	-- 19.5	19.5	-- 16.5
8	14.0	-- 13.0	17.0	-- 15.5	20.5	-- 18.0	21.5	-- 18.0	21.0	-- 19.5	20.5	-- 17.5
9	14.0	-- 13.5	17.0	-- 16.5	19.5	-- 18.0	22.0	-- 19.0	--	--	19.5	-- 18.5
10	14.5	-- 13.5	16.5	-- 15.5	18.5	-- 16.5	21.5	-- 19.5	--	--	19.5	-- 18.5
11	14.5	-- 13.5	17.5	-- 15.5	--	--	20.5	-- 18.0	19.0	-- 17.0	19.0	-- 18.5
12	14.5	-- 13.5	17.5	-- 16.5	--	--	21.0	-- 18.0	18.0	-- 16.5	19.0	-- 18.0
13	13.5	-- 12.5	18.0	-- 16.5	--	--	21.5	-- 19.0	18.5	-- 17.0	19.5	-- 18.0
14	12.5	-- 12.0	18.5	-- 17.5	--	--	21.0	-- 19.0	19.5	-- 17.0	19.5	-- 17.5
15	14.0	-- 12.0	18.5	-- 17.5	--	--	21.5	-- 19.5	19.5	-- 17.5	19.5	-- 18.5
16	13.5	-- 13.5	18.5	-- 18.0	--	--	21.0	-- 19.5	19.0	-- 17.5	20.0	-- 18.5
17	13.5	-- 12.0	19.0	-- 18.5	--	--	20.5	-- 19.0	19.0	-- 17.0	20.5	-- 18.5
18	12.5	-- 12.0	19.5	-- 18.5	--	--	20.5	-- 19.5	19.0	-- 17.0	20.0	-- 19.0
19	12.0	-- 11.5	19.0	-- 17.0	--	--	20.0	-- 19.5	19.0	-- 17.0	19.5	-- 19.0
20	13.0	-- 11.0	17.0	-- 16.0	--	--	19.5	-- 19.0	19.5	-- 17.5	20.0	-- 18.5
21	14.0	-- 12.5	18.0	-- 16.0	--	--	19.5	-- 18.0	19.0	-- 17.5	20.0	-- 18.5
22	14.0	-- 13.0	18.0	-- 16.5	--	--	19.5	-- 18.0	18.5	-- 16.5	20.0	-- 18.5
23	14.0	-- 13.0	18.5	-- 17.5	--	--	20.0	-- 17.5	18.0	-- 16.5	19.0	-- 18.5
24	14.5	-- 13.0	18.5	-- 18.0	--	--	20.5	-- 17.5	17.5	-- 17.0	19.0	-- 18.0
25	15.5	-- 14.0	18.0	-- 17.0	--	--	21.0	-- 18.5	19.0	-- 16.5	19.0	-- 18.0
26	15.0	-- 14.5	18.0	-- 16.0	--	--	22.0	-- 19.0	19.5	-- 17.5	20.0	-- 18.0
27	15.0	-- 14.0	19.5	-- 17.5	--	--	22.0	-- 19.5	19.0	-- 18.0	20.0	-- 18.0
28	14.0	-- 13.5	20.0	-- 17.5	22.5	-- 20.0	22.0	-- 20.0	19.5	-- 16.5	20.0	-- 18.0
29	14.0	-- 13.0	20.0	-- 18.0	20.5	-- 18.0	22.0	-- 19.5	19.5	-- 18.0	19.5	-- 18.5
30	14.5	-- 13.5	19.5	-- 17.0	19.5	-- 17.5	22.0	-- 19.5	19.0	-- 17.0	19.0	-- 17.5
31	--	--	17.5	-- 16.0	--	--	21.5	-- 19.5	19.0	-- 17.5	--	--
MONTH	15.5	-- 10.0	20.0	-- 14.0	--	--	22.0	-- 17.0	22.0	-- 16.5	20.5	-- 16.0

## EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	679	12	22	335	1	.90	1710	4	18
2	496	8	11	350	1	.95	1590	4	17
3	405	8	8.7	413	8	8.9	1610	7	30
4	350	6	5.7	2650	233	2780	2410	25	172
5	312	6	5.1	6940	460	8620	3230	39	340
6	275	6	4.5	4060	147	1610	3250	24	211
7	254	4	2.7	3070	56	464	3550	35	335
8	235	4	2.5	7620	337	7470	3450	27	252
9	216	4	2.3	4800	150	1940	2920	16	126
10	222	6	3.6	6200	167	2920	2430	11	72
11	290	7	5.5	10700	325	10500	2260	8	49
12	594	22	35	9370	392	9920	2110	6	34
13	984	15	40	5390	114	1660	2070	5	28
14	1410	33	126	8660	240	5610	2070	5	28
15	1140	23	71	9340	260	6560	1950	6	32
16	971	20	52	10500	250	7090	4760	143	4480
17	1030	24	67	11700	300	9480	90800	3980	1060000
18	1150	25	78	10100	137	3740	58000	2200	345000
19	934	15	38	9340	32	807	37000	1680	168000
20	812	10	22	6790	91	1670	26000	960	67400
21	709	7	13	5620	48	728	18000	600	29200
22	612	4	6.6	4150	29	325	33500	1260	124000
23	540	4	5.8	3550	23	220	41100	1160	129000
24	479	3	3.9	3090	18	150	32500	850	74600
25	454	3	3.7	2610	12	85	22000	570	33900
26	429	3	3.5	2300	8	50	15500	410	17200
27	405	3	3.3	2090	7	40	12600	430	14600
28	381	3	3.1	2020	6	33	13700	460	17000
29	358	1	.97	2020	6	33	10500	310	8790
30	350	1	.95	1860	6	30	8530	364	8380
31	335	1	.90	--	--	--	7100	308	5900
TOTAL	17811	--	648.32	157638	--	84545.75	468200	--	2109194

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	6200	252	4220	12800	172	5940	22400	358	21700
2	5400	231	3370	11000	125	3710	20600	310	17200
3	4700	189	2400	9930	92	2470	17600	280	13300
4	4100	125	1380	14100	291	18400	20800	335	18800
5	3700	90	899	73100	1820	375000	17600	225	10700
6	3400	61	560	39300	740	78500	17900	295	14300
7	3200	42	363	25900	500	35000	19000	310	15900
8	3200	60	518	21100	400	22800	16500	194	8640
9	12000	950	30800	17700	350	16700	14600	162	6390
10	34600	1720	163000	26700	690	52500	13000	156	5480
11	50900	2020	355000	29100	615	48300	14500	200	7830
12	117000	2720	859000	25300	412	28100	13200	192	6840
13	111000	2280	691000	22200	320	19200	11300	170	5190
14	59400	1390	223000	19100	280	14400	9820	208	5510
15	37400	1040	105000	19500	285	15000	8590	250	5800
16	103000	3080	1010000	15800	230	9810	8050	260	5650
17	107000	2400	693000	13400	187	6770	8130	220	4830
18	74000	1730	348000	11800	185	5890	7610	150	3080
19	66300	1370	245000	10400	158	4440	8080	180	3930
20	40700	790	86800	9230	123	3070	11400	352	10800
21	32800	600	53100	8380	119	2690	14700	350	13900
22	25900	382	26700	7780	123	2580	16300	375	16500
23	19700	324	17200	7140	137	2640	14400	225	8750
24	16400	293	13000	8660	250	6840	12600	150	5100
25	19100	350	18000	26900	992	72100	11100	110	3300
26	17700	287	13700	29800	771	63200	9940	100	2680
27	14400	259	10100	35000	825	78000	8980	100	2420
28	12500	231	7800	26100	470	33100	8420	120	2730
29	12300	261	8670	--	--	--	7780	120	2520
30	15300	307	12700	--	--	--	8040	150	3260
31	14500	242	9470	--	--	--	16100	575	25000
TOTAL	1047800	--	5013750	577220	--	1027150	409040	--	278030

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	14000	310	11700	3470	24	225	1100	8	24
2	11300	147	4480	3180	22	189	1090	8	24
3	9420	109	2770	3070	22	182	1090	6	18
4	8280	91	2030	3010	20	163	972	6	16
5	7750	83	1740	2930	13	103	908	6	15
6	7540	77	1570	2780	14	105	842	6	14
7	7520	71	1440	2640	15	107	787	5	11
8	7400	67	1340	2580	18	125	755	5	10
9	6950	84	1580	2500	14	95	717	5	9.7
10	6880	99	1840	2460	13	86	675	5	9.1
11	6610	99	1770	2450	13	86	651	5	8.8
12	6740	92	1670	2390	14	90	630	5	8.5
13	6980	83	1560	2370	16	102	602	4	6.5
14	7220	71	1380	2380	14	90	577	4	6.2
15	5690	63	968	2350	14	89	564	4	6.1
16	5090	53	728	2330	12	75	545	4	5.9
17	4980	47	632	2270	12	74	538	3	4.4
18	5060	41	560	2230	12	72	520	3	4.2
19	4750	36	462	2120	10	57	499	3	4.0
20	4400	29	345	2000	10	54	490	2	2.6
21	4110	23	255	1870	10	50	481	2	2.6
22	3870	24	251	1720	10	46	448	2	2.4
23	3740	25	252	1630	9	40	426	2	2.3
24	3810	24	247	1580	9	38	406	2	2.2
25	3890	25	263	1540	9	37	381	2	2.1
26	3940	25	266	1630	9	40	362	1	.98
27	4090	22	243	1570	11	47	390	1	1.1
28	4210	24	273	1400	13	49	382	1	1.0
29	4030	25	272	1250	13	44	366	1	.99
30	3840	24	249	1180	10	32	349	1	.94
31	--	--	--	1140	8	25	--	--	--
TOTAL	184090	--	43136	68020	--	2617	18543	--	224.61

DAY	JULY			AUGUST			SEPTEMBER		
	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	342	1	.92	165	6	2.7	105	2	.57
2	333	1	.90	165	4	1.8	106	2	.57
3	313	4	3.4	165	3	1.3	103	1	.28
4	298	4	3.2	175	2	.95	101	1	.27
5	283	4	3.1	175	2	.95	97	1	.26
6	271	4	2.9	175	2	.95	91	1	.25
7	268	4	2.9	185	4	2.0	82	1	.22
8	262	4	2.8	200	3	1.6	85	3	.69
9	251	4	2.7	200	2	1.1	85	2	.46
10	245	4	2.6	184	2	.99	140	2	.76
11	235	4	2.5	168	2	.91	145	2	.78
12	225	4	2.4	157	1	.42	140	2	.76
13	230	4	2.5	132	1	.36	120	2	.65
14	225	4	2.4	126	1	.34	105	2	.57
15	220	4	2.4	121	4	1.3	90	2	.49
16	215	4	2.3	114	3	.92	85	2	.46
17	210	4	2.3	110	2	.59	85	2	.46
18	210	4	2.3	106	2	.57	85	2	.46
19	205	4	2.2	109	2	.59	122	3	.99
20	205	4	2.2	103	2	.56	293	3	2.4
21	200	4	2.2	101	3	.82	461	3	3.7
22	195	4	2.1	95	3	.77	702	5	9.5
23	195	4	2.1	95	5	1.3	818	6	13
24	190	4	2.1	94	3	.76	1040	14	39
25	185	4	2.0	95	2	.51	1000	10	27
26	180	4	1.9	99	2	.53	890	5	12
27	180	4	1.9	96	2	.52	685	2	3.7
28	175	4	1.9	101	2	.55	538	2	2.9
29	175	4	1.9	99	2	.53	414	2	2.2
30	170	4	1.8	97	2	.52	321	2	1.7
31	165	4	1.8	95	2	.51	--	--	--
TOTAL	7056	--	70.62	4102	--	28.22	9134	--	127.05

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)  
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

2968654  
8559521.57

## EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT CHARGE (MG/L)	SUS- PEN- DED SED- IMENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
DEC.									
18...	1215	--	53900	2040	297000	21	31	40	52
19...	1220	--	57200	1720	266000	21	32	43	55
22...	1645	11.0	43300	1670	195000	23	33	44	58
24...	1010	--	33500	817	73900	--	--	--	--
27...	0855	--	12300	366	12200	--	--	--	--
JAN.									
10...	0715	--	39100	1820	192000	22	30	41	54
11...	1630	--	61300	2130	353000	--	--	--	--
12...	1220	--	119000	2520	810000	22	32	43	57
14...	0900	--	61600	1440	240000	21	30	38	50
19...	1220	8.5	64500	1280	223000	24	32	43	54
FEB.									
06...	1740	--	33800	633	57800	5	24	34	49
10...	1605	--	30400	907	74400	21	33	42	50

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
DEC.									
18...	63	76	--	92	--	97	--	100	--
19...	68	79	--	92	--	100	--	--	--
22...	72	78	--	92	--	100	--	--	--
24...	--	--	82	--	90	--	99	--	100
27...	--	--	49	--	59	--	100	--	--
JAN.									
10...	68	81	--	91	--	98	--	100	--
11...	--	78	--	92	--	99	--	100	--
12...	71	83	--	95	--	100	--	--	--
14...	61	73	--	92	--	100	--	--	--
19...	65	79	--	93	--	100	--	--	--
FEB.									
06...	58	74	--	93	--	100	--	--	--
10...	57	75	--	89	--	100	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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.								
15...	1400	4.5	1	1920	7	19	70	89
15...	1405	4.5	1	1920	3	12	30	86
15...	1410	4.5	1	1920	--	--	5	20
15...	1415	4.5	1	1920	1	2	8	18
15...	1420	4.5	1	1920	--	--	3	10
15...	1425	4.5	1	1920	--	--	1	11

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
DEC.							
15...	91	93	96	100	--	--	--
15...	94	97	98	100	--	--	--
15...	22	24	30	40	65	100	--
15...	21	23	27	38	65	78	100
15...	17	26	34	45	71	100	--
15...	12	13	16	25	61	100	--

## EEL RIVER BASIN

533

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
DEC. 21...	1430	11.0	4	17900	568	2730	3	10
FEB. 01...	1330	7.5	4	12500	561	1500	8	61

DATE	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. 21...	10	11	21	51	81	95	95	100
FEB. 01...	86	91	95	98	100	--	--	--

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PENDED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)	DATE	TIME	SUS- PENDED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
OCT.				DEC.			
02...	--	8	8	08...	1625	34	15
11...	0730	4	5	09...	--	20	9
11...	1530	9	10	10...	--	14	9
12...	--	16	10	11...	--	11	9
28...	--	3	2	12...	--	8	6
29...	--	1	2	13...	--	7	5
NOV.				14...	--	7	6
04...	--	450	140	15...	1315	8	5
04...	1000	71	15	15...	1610	8	5
05...	0830	724	130	16...	1100	28	10
05...	1630	507	120	16...	1600	110	30
06...	0700	268	100	17...	0830	5000	440
06...	1615	146	70	17...	1215	5070	720
07...	0700	84	50	17...	1630	4820	680
07...	1430	76	40	18...	1215	2040	350
08...	0700	480	65	18...	1615	1890	300
08...	1615	561	110	19...	1220	1720	310
09...	0700	264	85	19...	1615	1680	240
09...	1600	145	65	20...	--	900	170
10...	--	238	85	21...	1555	581	130
11...	--	541	100	21...	1640	539	130
12...	--	583	140	22...	1215	1520	200
13...	1215	151	55	22...	1645	1670	300
13...	1630	107	50	23...	--	1160	230
15...	--	264	100	24...	1010	817	200
16...	0700	238	75	24...	1655	810	160
16...	1615	330	95	26...	--	413	100
18...	--	102	50	27...	0855	366	85
19...	--	48	30	27...	1620	488	75
20...	0700	124	45	28...	--	530	90
20...	1615	151	50	29...	--	377	50
21...	0700	72	35	30...	--	562	50
21...	1600	58	30	31...	--	448	40
22...	--	28	20	JAN.			
23...	--	34	15	01...	--	365	30
24...	--	24	15	02...	1230	332	25
25...	--	19	10	02...	1620	328	25
26...	--	12	8	03...	1220	232	25
27...	--	10	7	03...	1710	266	20
28...	--	8	5	04...	--	178	15
29...	--	8	5	05...	--	122	15
30...	--	8	5	06...	--	79	10
DEC.				07...	--	56	10
01...	--	5	4	08...	--	65	15
02...	--	6	4	09...	--	1230	140
03...	--	10	5	10...	0715	1820	290
04...	0710	17	8	10...	1210	1500	280
04...	1215	26	10	11...	1230	1440	220
04...	1615	56	30	11...	1630	2130	320
05...	1215	54	20	12...	1220	2520	470
05...	1610	46	15	12...	1730	2360	440
06...	0715	36	15	13...	--	2550	450
06...	1215	34	15	14...	--	1440	360
06...	1610	32	15	16...	--	3280	450
07...	1210	59	25	17...	--	2240	380
07...	1610	54	20	18...	--	1510	240
08...	1220	40	15	19...	--	1240	220
				20...	--	896	190

## EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued  
 PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
 CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PENDE SEDIM- ENT (MG/L)	TUR- BID- ITY (JTU)	DATE	TIME	SUS- PENDE SEDIM- ENT (MG/L)	TUR- BID- ITY (JTU)
JAN.				APR.			
21...	--	768	150	11...	--	130	30
22...	--	507	120	16...	--	74	25
23...	--	459	100	18...	--	58	20
24...	--	403	95	21...	--	33	20
25...	--	552	100	23...	--	35	10
26...	--	384	100	25...	--	37	15
27...	--	384	85	27...	--	32	20
28...	--	306	65	29...	--	36	20
29...	--	394	60	MAY			
30...	--	447	70	01...	--	18	10
31...	--	322	70	03...	1350	31	20
FEB.				03...	1735	31	15
01...	--	240	55	05...	--	13	9
03...	--	136	40	07...	--	18	9
06...	--	633	170	09...	--	14	8
07...	--	474	120	11...	--	13	8
08...	--	391	150	13...	--	16	5
09...	--	344	95	21...	--	10	7
10...	--	907	180	23...	--	9	5
11...	--	556	130	29...	--	13	4
12...	--	388	110	31...	1445	6	3
13...	--	308	100	31...	1720	8	4
14...	--	278	85	JUNE			
15...	--	294	90	04...	--	6	3
16...	--	216	70	06...	--	6	3
17...	--	187	60	08...	--	5	3
18...	--	216	45	10...	--	4	3
19...	--	195	45	12...	--	5	3
20...	--	175	35	14...	--	4	2
21...	--	235	30	16...	--	4	2
23...	--	108	25	18...	--	3	2
24...	--	338	35	22...	--	2	2
26...	--	750	140	24...	--	2	2
27...	--	776	170	26...	--	7	3
28...	--	408	110	27...	--	1	1
MAR.				JULY			
01...	--	376	100	01...	--	4	3
02...	--	300	95	05...	--	3	3
03...	--	376	95	AUG.			
05...	--	212	75	01...	--	6	3
06...	--	351	95	03...	--	3	2
07...	--	270	90	05...	--	2	2
08...	--	182	70	07...	--	4	2
09...	--	160	55	09...	--	2	2
10...	--	156	50	11...	--	2	2
12...	--	182	55	13...	--	1	2
14...	--	220	35	15...	--	4	2
18...	--	139	25	17...	--	2	2
19...	--	258	50	19...	--	2	1
20...	--	358	60	21...	--	3	2
21...	--	348	80	23...	--	5	2
22...	--	389	90	25...	--	2	2
23...	--	191	70	27...	--	2	2
26...	--	98	30	29...	--	2	2
28...	--	117	25	31...	1015	2	2
29...	--	121	25	31...	1915	2	2
30...	--	146	25	SEP.			
31...	--	460	100	02...	--	2	2
APR.				04...	--	1	5
02...	--	177	45	06...	--	3	5
03...	--	148	35	08...	--	2	5
05...	--	110	25	10...	--	3	6
08...	--	92	25	19...	--	3	6
10...	--	144	25	21...	--	3	6



LOCATION.--Lat 40°29'05", long 123°39'25", in NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec.7, T.1 N., R.5 E., Humboldt County, temperature recorder at gaging station on right bank, 10 ft upstream from private road bridge, 0.3 mile upstream from South Fork, and 2.8 miles west of Dinsmores.

DRAINAGE AREA --85.1 sq mi

Water temperatures: Maximum, 25.5°C Aug. 11, 1971, July 16, 1972; minimum (1965-68, 1969-73), freezing point on several days in 1965-68.

REMARKS.--Recorder stopped Oct. 1-11, Mar. 24 to Apr. 5, June 24 to July 10, July 26 to Aug. 30; recorder malfunction Sept. 3, 8; probe inoperative Sept. 21-30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	10.5	9.5	7.0	5.0	5.0	2.0	6.0	3.0	7.0	4.5
2	---	---	12.5	10.0	6.5	5.5	4.5	3.0	5.5	3.5	7.5	3.5
3	---	---	12.0	10.0	7.0	4.5	4.0	2.0	5.5	4.0	4.5	4.0
4	---	---	10.5	9.0	6.5	4.0	3.5	1.5	4.5	3.5	6.5	4.0
5	---	---	11.5	8.0	4.0	3.0	3.5	1.0	5.5	3.5	6.5	3.5
6	---	---	10.0	8.0	3.5	2.5	4.0	2.0	6.0	4.0	6.0	4.5
7	---	---	9.0	8.5	3.5	2.0	4.0	1.5	6.5	4.5	5.0	3.5
8	---	---	10.0	8.0	2.5	1.0	2.5	1.0	6.0	4.5	7.0	4.0
9	---	---	9.0	7.5	2.0	0.5	2.5	1.0	6.5	5.0	8.5	5.0
10	---	---	9.0	7.0	2.0	0.5	3.0	1.5	5.5	5.0	6.5	4.5
11	---	---	9.0	6.5	2.0	0.5	3.5	2.0	6.0	4.5	8.0	4.0
12	15.0	12.5	9.5	7.0	2.5	1.5	5.5	3.5	6.0	4.0	6.5	4.0
13	15.5	12.5	9.0	7.5	2.0	0.5	6.0	5.0	6.5	3.5	7.5	4.0
14	14.0	12.5	9.0	6.5	2.5	1.0	6.0	4.0	6.0	4.5	8.0	3.5
15	15.0	12.5	8.0	7.0	3.5	2.0	5.5	4.5	6.5	4.0	9.5	3.5
16	14.0	11.5	8.5	6.5	3.5	2.5	6.0	5.5	6.0	4.5	6.0	5.0
17	15.5	12.0	8.0	5.5	5.0	3.0	5.5	4.5	7.0	4.5	7.0	4.0
18	15.5	12.0	8.0	7.0	6.0	5.0	4.5	4.5	7.0	4.5	7.5	3.5
19	14.5	12.0	8.0	7.0	7.0	5.5	5.0	3.0	7.0	4.5	5.5	3.0
20	14.5	12.5	8.0	6.0	7.0	6.0	4.5	3.0	7.0	4.0	5.5	3.0
21	15.0	12.0	7.5	6.5	7.5	6.5	5.5	3.0	7.0	4.0	6.0	3.0
22	14.0	13.5	8.5	6.0	6.5	5.5	5.5	2.5	7.0	4.0	9.0	3.0
23	15.0	12.0	8.5	6.0	6.5	5.0	5.0	2.5	7.5	4.0	10.0	6.0
24	14.0	12.0	8.5	6.0	6.5	4.5	4.0	3.5	6.0	5.0	---	---
25	13.5	11.0	8.5	6.0	7.0	4.5	4.5	3.0	7.0	5.0	---	---
26	14.0	12.0	8.5	6.5	6.0	4.0	5.0	2.0	6.0	5.5	---	---
27	12.0	10.0	8.5	6.5	5.5	4.5	4.5	2.5	7.0	5.0	---	---
28	11.5	9.5	8.0	6.0	5.5	3.5	5.5	2.5	6.5	5.0	---	---
29	10.5	8.0	8.0	6.0	4.5	2.5	4.5	3.5	---	---	---	---
30	10.0	8.0	7.5	5.0	5.5	2.5	5.0	3.5	---	---	---	---
31	10.0	8.0	---	---	5.0	2.5	5.5	3.5	---	---	---	---
MONTH	---	---	12.5	5.0	7.5	0.5	6.0	1.0	7.5	3.0	---	---
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	15.0	9.0	17.5	13.0	---	---	---	---	21.5	16.5
2	---	---	15.5	10.5	17.5	13.0	---	---	---	---	22.0	17.5
3	---	---	14.5	10.5	18.5	14.5	---	---	---	---	---	---
4	---	---	12.0	10.5	20.0	14.5	---	---	---	---	21.0	17.0
5	---	---	14.5	9.5	20.0	15.5	---	---	---	---	21.5	16.5
6	12.5	5.5	14.5	11.0	20.0	16.0	---	---	---	---	21.0	16.0
7	12.5	6.0	16.0	11.5	20.0	16.0	---	---	---	---	20.5	16.5
8	13.5	6.0	17.5	14.0	20.5	16.0	---	---	---	---	---	---
9	13.0	7.0	18.0	15.0	19.5	16.5	---	---	---	---	21.5	16.5
10	14.0	8.0	18.5	15.0	19.0	15.5	---	---	---	---	21.5	16.5
11	14.0	7.5	18.5	15.0	19.0	16.0	21.5	17.0	---	---	21.0	16.5
12	13.0	7.5	18.5	14.5	17.0	16.0	23.5	17.5	---	---	21.0	16.0
13	13.5	7.5	19.0	15.5	17.0	14.5	24.5	18.0	---	---	20.5	15.5
14	14.5	6.5	20.0	16.0	16.5	14.0	25.0	19.0	---	---	20.0	15.0
15	13.0	7.5	19.0	16.0	16.5	13.5	25.0	19.5	---	---	20.0	15.0
16	10.0	8.0	20.0	13.5	15.5	14.0	24.0	19.0	---	---	19.0	14.5
17	9.0	7.0	21.0	14.5	15.5	13.5	24.0	19.0	---	---	19.0	14.5
18	7.5	5.0	20.5	14.5	17.5	13.0	23.5	18.5	---	---	17.5	15.5
19	10.5	5.5	18.0	14.5	19.0	14.5	23.5	18.0	---	---	17.0	16.0
20	12.5	5.5	17.5	13.0	20.5	15.5	22.5	18.0	---	---	17.0	15.5
21	13.0	5.5	18.5	13.0	20.0	17.0	21.5	17.0	---	---	---	---
22	12.5	7.0	18.0	13.5	20.0	17.5	21.5	17.0	---	---	---	---
23	13.5	7.0	16.5	13.5	19.0	17.0	21.5	16.0	---	---	---	---
24	14.5	7.0	14.5	12.5	---	---	22.5	17.0	---	---	---	---
25	16.0	7.0	16.5	12.0	---	---	23.5	18.0	---	---	---	---
26	16.0	9.0	16.5	12.0	---	---	---	---	---	---	---	---
27	14.0	10.0	18.0	13.5	---	---	---	---	---	---	---	---
28	14.5	9.0	20.0	13.5	---	---	---	---	---	---	---	---
29	14.5	8.0	20.0	15.0	---	---	---	---	---	---	---	---
30	14.5	9.0	16.5	14.0	---	---	---	---	---	---	---	---
31	---	---	16.5	14.0	---	---	---	---	22.5	18.0	---	---
MONTH	16.0	5.0	21.0	9.0	---	---	---	---	---	---	---	---

## EEL RIVER BASIN

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CALIF.

LOCATION.--Lat 40°28'50", long 123°53'23", in NE1SE1 sec.12, T.1 N. R.2 E., Humboldt County, at gaging station at bridge on State Highway 36, 0.9 mile upstream from Grizzly Creek, and 5 miles west of Bridgeville.

DRAINAGE AREA.--222 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1958 (partial-record station), October 1958 to September 1973.  
 Water temperatures: December 1960 to September 1973.  
 Sediment records: Water years 1955-67 (partial-record station).  
 Turbidity: Water years 1964-67 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 26.5°C May 25, 26; minimum, freezing point Dec. 14.

Period of record:

Water temperatures (1960-64, 1965-73): Maximum, 29.5°C July 1, 2, 1967; minimum, freezing point Dec. 14, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Apr. 20 to May 6, May 11-16, recorder malfunction.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA,MG) (MG/L)
OCT. 03...	1145	34	7.0	126	0	103	4.7	116
NOV. 14...	1200	1330	3.4	58	0	48	1.4	56
DEC. 05...	1130	291	--	--	--	--	--	--
JAN. 17...	1130	5580	--	--	--	--	--	--
FEB. 06...	1500	2910	3.0	53	0	43	1.1	44
MAR. 06...	1115	1560	--	--	--	--	--	--
APR. 03...	1115	1000	--	--	--	--	--	--
MAY 23...	0945	116	--	--	--	--	--	--
JUNE 20...	1120	51	--	--	--	--	--	--
JULY 10...	1020	24	--	--	--	--	--	--
AUG. 07...	1625	11	--	--	--	--	--	--
SEP. 12...	1125	8.2	--	--	--	--	--	--

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT. 03...	13	.3	259	7.8	17.0	0	9.9	100
NOV. 14...	8	.2	120	7.4	8.5	90	11.2	100
DEC. 05...	--	--	160	7.6	4.5	10	12.7	--
JAN. 17...	--	--	90	7.4	7.0	480	11.8	--
FEB. 06...	1	.2	99	7.2	8.0	100	11.7	0
MAR. 06...	--	--	112	7.3	7.5	80	11.0	--
APR. 03...	--	--	116	7.4	8.0	15	11.0	--
MAY 23...	--	--	174	7.7	17.0	0	10.0	--
JUNE 20...	--	--	211	8.1	20.0	0	9.3	--
JULY 10...	--	--	246	7.9	19.0	0	9.4	--
AUG. 07...	--	--	267	8.1	23.5	0	10.0	--
SEP. 12...	--	--	280	7.8	18.0	0	10.4	--

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	14.5	11.0	9.0	7.5	5.0	5.5	4.5	6.0	4.5	7.5	6.0
2	18.5	14.0	13.5	9.5	7.5	7.0	6.5	5.5	7.5	6.0	7.5	5.5
3	19.5	14.5	12.5	11.0	8.0	6.5	5.5	5.0	8.0	7.0	7.5	6.5
4	18.0	15.0	12.0	10.5	6.5	3.5	5.0	4.5	7.5	7.0	8.0	6.5
5	20.0	15.5	10.5	9.0	4.5	3.0	4.5	3.5	8.0	6.5	8.0	6.0
6	19.5	14.0	10.5	8.5	4.5	3.0	5.0	4.0	8.5	7.5	8.5	6.5
7	20.0	14.0	10.5	9.0	5.0	3.0	5.0	4.5	9.0	7.5	7.5	6.5
8	18.0	15.0	10.5	9.0	3.5	2.0	5.5	4.0	9.0	8.5	8.5	6.5
9	18.0	16.0	10.0	9.0	3.0	2.0	6.5	5.5	9.0	8.5	10.0	8.5
10	17.0	15.5	9.5	8.5	3.0	2.0	6.5	6.0	8.5	7.0	9.5	7.5
11	15.5	13.5	9.0	8.5	3.0	2.0	7.0	6.5	8.0	7.0	8.5	6.0
12	15.5	13.5	9.5	8.0	3.0	1.5	8.5	7.0	7.5	6.5	8.5	6.5
13	17.0	13.0	10.0	8.5	2.5	1.0	9.0	8.5	8.0	6.0	8.5	6.5
14	15.0	12.5	8.5	7.5	2.0	0.0	8.5	6.5	8.0	7.5	8.5	6.0
15	16.0	13.0	8.5	7.0	3.5	2.0	8.0	7.0	8.0	6.0	10.0	6.5
16	14.5	12.0	8.0	6.5	5.5	3.5	8.0	8.0	8.0	6.5	9.0	7.0
17	17.0	12.5	7.5	6.0	7.5	5.5	8.0	7.0	9.0	7.0	7.5	6.0
18	17.0	12.5	8.5	6.5	9.5	7.5	7.5	7.0	7.5	6.0	8.5	6.0
19	14.0	13.0	9.0	7.5	11.0	9.5	7.0	6.0	8.0	5.5	8.0	5.5
20	15.0	12.5	8.0	6.5	11.5	10.5	6.5	5.0	8.5	6.5	6.5	5.0
21	17.0	13.0	8.5	7.0	12.0	11.5	7.5	6.0	9.5	6.0	6.5	6.0
22	15.0	14.0	8.5	7.0	12.0	10.5	7.0	5.5	8.5	6.5	8.5	5.0
23	17.0	13.5	8.0	6.5	10.5	10.0	6.0	5.0	9.0	6.5	9.5	6.0
24	17.0	13.0	8.5	7.0	10.0	8.5	6.5	6.0	8.5	7.5	10.0	7.5
25	16.0	10.5	8.5	7.0	8.5	7.5	6.5	5.0	9.0	7.5	11.0	9.0
26	15.5	12.0	9.0	6.5	8.0	7.0	5.0	3.5	9.0	8.0	10.0	8.5
27	14.5	11.0	9.5	8.0	8.0	7.5	5.0	4.0	9.0	8.0	9.5	7.5
28	12.5	9.5	9.5	8.0	7.5	6.0	6.0	4.5	8.0	7.0	10.0	7.5
29	12.5	9.0	9.0	6.5	6.5	5.0	6.0	5.5	---	---	10.0	7.5
30	11.0	7.0	8.0	5.5	6.0	5.0	6.5	5.5	---	---	8.5	7.5
31	11.0	6.5	---	---	5.5	5.0	6.0	5.0	---	---	8.5	7.5
MONTH	20.0	6.5	13.5	5.5	12.0	0.0	9.0	3.5	9.5	4.5	11.0	5.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.5	---	---	22.5	16.0	18.0	14.0	23.5	18.0	21.0	14.0
2	9.5	6.0	---	---	22.5	17.0	20.0	13.5	24.0	18.0	21.5	14.5
3	11.0	7.0	---	---	24.0	18.0	21.0	14.5	22.5	18.0	21.5	15.0
4	12.5	8.0	---	---	22.0	18.0	21.0	15.5	22.5	18.0	21.5	15.5
5	13.5	10.0	---	---	23.0	17.0	23.5	15.0	23.5	18.0	21.0	16.0
6	13.5	11.0	---	---	22.5	18.0	24.0	16.0	22.5	17.5	21.5	17.0
7	13.5	10.5	17.5	13.0	23.0	18.0	24.0	17.0	23.0	18.0	21.0	18.0
8	14.5	10.5	19.0	12.5	23.5	16.0	24.0	18.0	22.0	18.0	22.0	17.0
9	14.5	11.0	19.5	14.0	21.5	16.5	24.5	18.5	22.0	18.0	23.0	16.5
10	16.5	11.5	19.5	13.5	22.0	16.0	23.0	19.0	20.0	18.0	22.0	18.0
11	16.0	12.0	---	---	22.5	16.0	21.0	17.5	21.0	17.0	20.5	17.5
12	13.0	11.0	---	---	19.5	16.5	23.0	17.0	21.0	17.0	21.0	17.0
13	11.0	9.5	---	---	19.5	15.5	23.5	17.0	22.0	18.0	20.0	17.0
14	12.0	9.5	---	---	19.0	14.0	24.0	17.0	23.5	18.0	20.5	15.5
15	15.0	10.0	---	---	22.0	15.0	23.0	17.0	21.5	18.0	20.5	17.5
16	13.0	11.0	---	---	18.5	16.0	22.5	17.5	20.5	17.0	21.5	17.5
17	11.5	8.5	22.0	16.0	20.0	15.0	22.5	17.5	19.5	17.5	21.5	16.5
18	9.5	8.0	21.5	16.5	22.0	14.5	22.5	18.0	20.5	16.0	21.0	18.0
19	12.0	7.5	18.0	15.0	22.5	16.0	21.0	18.0	20.5	16.0	20.0	19.0
20	---	---	19.0	14.0	26.0	17.0	20.0	18.0	21.0	17.0	21.5	17.5
21	---	---	20.5	14.0	25.0	18.5	21.5	17.5	21.0	17.0	22.0	17.5
22	---	---	20.5	14.5	23.5	18.5	21.5	17.0	20.5	16.5	20.0	17.0
23	---	---	21.5	15.5	20.5	15.5	21.5	16.5	20.0	15.0	21.5	17.0
24	---	---	24.5	15.5	17.5	15.5	22.5	17.0	19.0	17.0	19.0	17.0
25	---	---	26.5	18.5	19.0	14.0	24.0	17.0	21.0	16.0	21.0	16.0
26	---	---	26.5	20.5	19.5	12.5	25.0	17.5	21.0	16.0	22.5	17.0
27	---	---	25.0	19.5	22.0	14.5	25.0	18.5	19.5	17.5	22.5	16.5
28	---	---	21.0	17.5	24.0	16.0	24.5	18.5	22.5	16.0	23.0	16.5
29	---	---	20.5	16.0	22.5	17.0	24.5	18.0	21.0	16.0	21.5	17.5
30	---	---	21.0	16.0	18.5	15.0	23.5	18.5	21.0	17.0	19.0	17.0
31	---	---	22.0	16.0	---	---	23.5	17.5	19.5	16.5	---	---
MONTH	---	---	---	---	26.0	12.5	25.0	13.5	24.0	15.0	23.0	14.0

## MAD RIVER BASIN

11480500 MAD RIVER NEAR FOREST GLEN, CALIF.

LOCATION.--Lat 40°27'30", long 123°30'35", in SW¼ sec.16, T.1 N., R.6 E., Trinity County, Six Rivers National Forest, at gaging station 0.7 mile downstream from Lamb Creek, and 11.1 miles northwest of Forest Glen.

DRAINAGE AREA.--143 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1971-73 (partial-record station).

Water temperatures: November 1960 to September 1973.

Sediment records: Water years 1957-73 (partial-record station).

Turbidity: Water years 1964-67, 1971-73 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 21.0°C July 3; minimum, 1.0°C Dec. 11.

Period of record:

Water temperatures: Maximum (1960-66, 1967-73), 26.0°C June 25, 1961; minimum, freezing point Jan. 5, 6, 1968.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)
OCT. 16...	1415	112	--	--	--	.12	--	.05	.16
NOV. 16...	1300	155	--	--	--	.05	--	.07	.23
DEC. 21...	1100	454	--	--	--	.05	.13	.13	.21
JAN. 30...	1215	590	--	--	--	.04	.13	.13	.23
FEB. 21...	1355	414	--	--	.03	.02	.22	.11	.00
MAR. 26...	1500	434	0	9.3	.00	.01	.14	.11	.01
MAY 15...	1230	76	--	--	.03	.00	.06	.03	.21
JULY 10...	1700	89	--	--	.00	.08	.14	.12	.04
AUG. 29...	1700	85	--	--	.01	.13	.20	.14	.10

DATE	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TEMPER-ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 16...	.11	.21	.16	.33	.03	.00	--	2.0
NOV. 16...	.10	.30	.17	.35	.14	.00	9.0	4.0
DEC. 21...	.15	.34	.28	.39	.24	.03	--	5.0
JAN. 30...	.07	.36	.20	.40	.07	.01	5.0	2.5
FEB. 21...	.13	.20	.24	.23	.06	.00	7.5	1.5
MAR. 26...	.04	.15	.15	.15	.03	.02	9.5	1.5
MAY 15...	.10	.27	.13	.30	.01	.00	16.0	1.0
JULY 10...	.00	.18	.12	.18	.02	.00	18.5	1.0
AUG. 29...	.16	.30	.30	.31	.02	.01	19.0	1.0

## ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAR. 26...	1500	1	0	0	0	2	.2	.1	10

11480500 MAD RIVER NEAR FOREST GLEN, CALIF.--Continued

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	14.0	11.5	11.0	7.5	6.0	5.0	4.0	5.5	4.5	7.0	6.0
2	17.0	13.5	13.5	11.5	7.5	6.0	5.0	4.0	6.0	4.5	7.5	5.5
3	17.0	13.5	12.0	11.5	8.0	7.0	5.0	3.5	5.5	5.0	6.5	5.5
4	17.0	14.0	12.0	11.0	7.0	5.5	4.5	3.5	5.0	4.5	7.5	6.0
5	17.0	14.0	12.0	10.0	5.5	3.5	4.5	3.0	6.0	5.0	7.5	5.5
6	16.0	13.5	10.5	9.5	5.0	3.5	5.0	3.5	6.0	5.5	8.0	5.5
7	15.5	13.5	10.5	10.0	5.5	3.5	5.0	3.5	6.0	5.5	7.5	6.0
8	16.0	14.0	11.5	10.0	3.5	2.0	4.0	3.0	6.0	5.5	8.5	6.0
9	15.5	15.0	10.5	9.5	3.0	1.5	4.5	3.0	6.5	5.5	9.5	6.5
10	15.0	14.5	10.5	9.0	3.0	1.5	4.5	4.0	6.0	5.0	7.5	6.0
11	15.0	14.0	9.5	8.5	3.0	1.0	4.5	3.5	6.5	6.0	8.5	6.0
12	14.5	13.5	10.0	8.5	4.0	2.5	5.0	4.5	6.5	6.0	8.0	5.5
13	15.5	13.5	10.0	8.0	3.0	1.5	5.0	4.5	7.0	5.5	7.0	5.5
14	15.0	13.5	9.0	7.5	3.5	2.0	5.0	4.0	7.0	6.0	8.5	5.5
15	14.5	13.5	8.5	7.5	4.5	3.5	4.5	4.0	7.0	5.5	9.0	5.5
16	14.0	13.0	9.0	7.5	4.5	3.0	5.0	4.5	7.5	5.0	7.5	6.0
17	15.0	13.0	8.5	7.0	6.0	3.5	5.0	4.5	7.5	5.0	7.5	5.5
18	15.5	13.0	9.5	8.0	7.0	6.0	5.0	4.5	7.5	5.0	8.0	5.5
19	15.5	13.0	9.0	8.0	7.0	6.5	5.5	4.5	7.5	4.5	7.5	5.5
20	15.5	13.0	9.0	8.0	6.5	5.0	5.0	4.5	7.5	5.0	7.5	5.5
21	15.5	13.0	9.0	8.0	6.5	5.0	5.5	4.5	7.5	5.0	7.5	5.5
22	15.5	13.5	8.5	7.5	7.0	6.0	5.5	4.5	6.5	4.5	9.5	5.5
23	15.5	13.0	8.5	7.0	6.0	6.0	5.5	4.5	7.0	5.0	9.5	5.5
24	14.5	12.5	8.5	7.5	6.0	5.5	5.0	4.5	6.5	6.0	9.5	5.5
25	14.5	11.5	8.5	7.0	6.0	5.0	5.5	4.5	7.0	6.0	9.5	6.0
26	14.0	12.0	9.0	8.0	6.0	5.0	5.5	4.5	6.5	6.5	9.5	6.5
27	13.5	11.0	9.0	7.5	5.5	5.0	5.5	4.5	7.0	6.0	9.0	5.5
28	12.5	11.0	8.5	7.0	5.5	4.0	5.0	4.5	7.0	6.0	9.0	5.5
29	12.0	10.0	8.5	7.0	5.0	4.0	5.5	4.5	---	---	8.5	5.5
30	11.0	9.0	8.0	6.5	5.5	4.0	5.5	5.0	---	---	8.0	6.5
31	11.5	9.5	---	---	5.0	4.0	5.5	4.5	---	---	8.0	5.5
MONTH	17.0	9.0	13.5	6.5	8.0	1.0	5.5	3.0	7.5	4.5	9.5	5.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	5.5	17.0	11.0	17.0	12.0	20.5	14.0	18.5	13.5	17.5	13.5
2	10.0	6.0	17.0	11.5	17.5	12.5	20.5	14.5	19.0	14.5	18.0	14.0
3	10.5	6.0	17.0	12.0	18.5	13.5	21.0	14.5	19.0	14.5	18.0	14.0
4	11.0	6.0	14.0	12.0	19.0	13.5	20.0	15.5	19.0	14.5	18.5	14.5
5	11.5	6.5	16.5	11.0	19.5	14.0	20.0	16.0	19.0	14.5	18.5	14.5
6	12.0	7.0	16.0	12.5	19.5	14.5	19.0	15.0	18.5	14.5	18.5	14.5
7	11.5	7.0	16.0	12.5	20.0	14.5	19.0	14.5	18.5	14.0	18.5	15.0
8	11.5	7.0	17.5	12.0	20.0	14.5	19.0	14.5	18.0	14.5	18.0	14.0
9	11.0	7.5	18.0	14.0	19.5	14.5	19.5	15.0	19.0	15.0	19.0	15.0
10	12.0	8.0	19.0	14.0	19.0	14.0	19.0	14.5	19.0	15.0	18.5	15.0
11	12.0	7.5	17.5	12.5	19.0	14.0	19.5	15.0	17.5	14.0	18.5	15.0
12	11.5	7.5	18.0	13.0	17.0	14.0	19.5	15.0	19.5	15.5	18.5	15.0
13	9.0	7.5	18.5	13.5	17.5	13.0	19.5	15.0	19.0	14.5	18.0	14.5
14	11.5	7.5	19.0	14.5	16.5	12.5	19.5	15.0	19.0	15.0	18.0	14.0
15	11.0	8.0	18.5	14.5	17.5	12.0	19.5	15.0	18.5	14.5	18.0	14.5
16	9.5	8.0	19.0	14.0	14.5	12.0	19.5	15.0	18.0	14.0	17.5	14.0
17	10.0	7.0	20.0	14.5	16.0	12.0	19.5	15.0	18.0	13.5	18.0	14.0
18	9.0	6.0	20.5	15.0	17.0	12.0	19.0	15.0	17.5	13.5	17.0	15.0
19	11.5	7.0	19.5	14.5	18.5	13.0	19.0	14.5	18.0	13.5	16.0	15.5
20	12.5	8.0	18.5	13.5	19.0	14.0	18.5	14.5	18.0	14.0	17.0	15.5
21	13.0	8.0	19.0	12.5	18.0	15.0	17.0	14.0	18.0	14.5	18.5	15.0
22	13.0	9.0	19.0	13.5	17.5	14.0	17.5	13.5	17.5	14.0	17.0	15.5
23	13.5	8.5	15.0	13.0	16.5	14.0	17.5	13.5	15.5	13.0	17.0	15.5
24	16.0	9.5	13.0	11.5	18.0	13.5	18.5	13.5	15.0	13.5	16.5	15.5
25	17.5	10.5	15.0	10.5	19.5	14.5	19.0	14.5	17.5	13.5	18.5	15.0
26	18.0	12.0	16.0	11.0	19.0	14.5	19.5	15.0	17.5	13.5	18.0	15.0
27	18.0	12.5	19.0	12.0	19.0	14.5	20.0	15.5	18.0	14.0	18.5	15.0
28	17.5	12.0	19.0	13.5	18.5	14.5	19.5	15.0	18.5	14.0	19.0	15.0
29	16.5	11.0	18.5	14.0	19.0	15.0	19.0	15.0	19.0	15.0	19.0	15.5
30	16.5	11.0	16.0	13.0	19.5	14.0	19.0	14.5	18.0	15.5	18.0	15.5
31	---	---	15.5	12.5	---	---	18.5	13.5	18.5	14.5	---	---
MONTH	18.0	5.5	20.5	10.5	20.0	12.0	21.0	13.5	19.5	13.0	19.0	13.5

## MAD RIVER BASIN

11480500 MAD RIVER NEAR FOREST GLEN, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	TUR- BID- ITY (JTU)
OCT. 11...	1635	15.0	112	3	.91	10
NOV. 08...	1510	11.5	116	4	1.3	4
DEC. 12...	1440	3.5	103	4	1.1	3
JAN. 18...	1220	5.0	3520	65	618	50
FEB. 21...	1400	7.5	410	10	11	20
APR. 05...	1200	10.0	410	8	8.9	10
MAY 15...	1420	17.5	77	4	.83	3
JULY 10...	1700	18.5	89	4	.96	3
AUG. 29...	1700	19.0	85	1	.23	7

## MAD RIVER BASIN

541

11480750 MAD RIVER NEAR KNEELAND, CALIF.

LOCATION.--Lat 40°45'50", long 123°53'20", in NW $\frac{1}{4}$ NW $\frac{1}{4}$  sec.6, T.4 N., R.3 E., Humboldt County, at gaging station at mouth of Maple Creek, 30 ft upstream from bridge, and 5.4 miles east of Kneeland.

DRAINAGE AREA.--352 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1970 to September 1973.

Water temperatures: November 1965 to September 1973.

Sediment records: Water years 1971-73 (partial-record station).

Turbidity: Water years 1971-73 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 27.5°C July 12, 13; minimum, 2.5°C Dec. 14, 16.

Period of record:

Water temperatures: Maximum (1965-69, 1970-73), 28.0°C July 19-22, 1968; minimum, 2.0°C Mar. 2, 1966.

REMARKS.--Chemical-quality samples collected from right bank 150 ft upstream from gaging station. No thermograph record Aug. 21 to Sept. 30, probe inoperative.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	ALKA- LINIT- AS CACO3 (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM (COL. PER 100 ML)
NOV.										
15...	1515	--	425	54	125	7.9	8.5	11.2	--	--
15...	1700	--	415	52	125	7.8	8.5	--	--	--
15...	1900	--	390	51	129	7.9	8.0	11.2	--	--
15...	2100	--	371	48	122	7.8	8.0	11.3	--	--
15...	2300	--	366	46	122	7.8	7.8	11.3	--	--
15...	2400	--	362	--	123	7.8	7.8	11.3	--	--
16...	0210	--	385	48	125	7.8	8.0	11.6	--	--
16...	0500	--	480	49	130	7.8	7.5	11.4	--	--
16...	0715	--	516	48	125	7.8	7.5	11.6	--	--
16...	0920	--	534	49	124	7.8	7.5	11.6	--	--
16...	1140	--	582	49	122	7.8	8.0	11.7	--	--
16...	1300	--	608	46	125	7.8	8.0	11.0	--	--
16...	1500	--	632	49	122	7.8	8.5	11.3	--	--
MAR.										
26...	1900	--	1410	41	119	7.3	8.5	11.2	0	7
26...	2100	--	1400	41	111	7.2	8.5	11.2	0	--
26...	2300	--	1390	41	111	7.4	8.5	11.3	0	--
27...	0100	--	1380	39	112	7.4	8.0	11.2	0	3
27...	0600	--	1360	39	104	7.3	7.0	11.7	0	--
27...	0700	--	1340	39	109	7.3	7.0	11.6	0	3
27...	0900	--	1330	39	110	7.3	7.5	11.7	0	--
27...	1100	--	1330	41	109	7.1	8.5	11.3	0	--
27...	1300	--	1310	41	116	7.7	9.0	11.3	0	7
27...	1500	--	1290	39	107	7.5	9.0	11.2	0	--
27...	1700	--	1280	38	108	7.3	9.0	11.1	0	--
27...	1900	--	1290	41	110	7.4	8.0	11.3	0	9
AUG.										
21...	1800	--	99	43	144	8.8	21.5	8.6	98	3
21...	2000	--	99	41	145	8.6	20.0	8.6	95	--
21...	2100	--	99	--	146	8.4	20.0	8.5	94	--
21...	2200	--	99	50	148	8.3	19.5	8.5	92	--
21...	2400	--	90	52	148	8.2	18.0	8.5	90	2
22...	0230	--	90	53	148	8.2	16.5	8.6	88	--
22...	0400	--	90	52	148	8.1	16.5	8.6	88	--
22...	0600	--	90	66	151	7.9	16.0	8.6	87	9
22...	0800	--	90	50	148	8.2	15.0	8.8	88	--
22...	1000	--	90	51	149	8.3	16.0	8.6	87	--
22...	1100	--	90	--	147	--	17.0	9.5	98	--
22...	1200	--	90	51	149	8.4	17.5	9.6	101	2
22...	1400	--	90	52	148	8.6	20.0	9.9	109	--
22...	1600	--	90	62	151	8.7	21.0	9.3	105	--
22...	1700	--	90	48	90	8.7	--	9.1	103	--

## MAD RIVER BASIN

11480750 MAD RIVER NEAR KNEELAND, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FF) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
OCT. 17...	1015	--	145	--	--	--	--	--	--	--
NOV. 15-16	--	464	--	6.3	110	0	17	3.3	3.7	.8
DEC. 20...	1200	--	2220	--	--	--	--	--	--	--
JAN. 31...	0925	E1750	--	--	--	--	--	--	--	--
FEB. 28...	1240	--	2850	--	--	--	--	--	--	--
MAR. 26-27	--	1350	--	7.0	20	10	13	2.7	2.9	.6
MAY 17...	1405	--	210	--	--	--	--	--	--	--
JULY 13...	1630	--	120	--	--	--	--	--	--	--
AUG. 22...	0600	--	90	6.6	30	--	24	3.3	3.6	.8
22...	1600	--	90	6.9	50	--	21	3.3	3.6	.8

E Estimated.

DATE	RICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)
OCT. 17...	--	--	--	--	--	--	.10	--	.05
NOV. 15-16	64	0	13	2.9	.1	--	.08	--	.21
DEC. 20...	--	--	--	--	--	--	.08	.71	.71
JAN. 31...	--	--	--	--	--	--	.03	.15	.15
FEB. 28...	--	--	--	--	--	.04	.03	.37	.14
MAR. 26-27	51	--	6.9	3.7	.1	.02	.00	.16	.08
MAY 17...	--	--	--	--	--	.00	.01	.07	.02
JULY 13...	--	--	--	--	--	.00	.10	.13	.11
AUG. 22...	81	0	11	1.8	.2	.00	--	.07	.07
22...	72	2	12	2.1	.2	.00	.00	.04	.09

DATE	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT. 17...	.10	.13	.15	.18	.25	.03	.00	--	--
NOV. 15-16	.06	.00	.27	.14	.35	.21	.00	--	.79
DEC. 20...	.00	.00	.61	.20	.69	.41	.02	--	--
JAN. 31...	.19	.03	.34	.18	.37	.14	.00	--	--
FEB. 28...	.00	.16	.22	.30	.26	.10	.00	--	--
MAR. 26-27	.03	.50	.19	.58	.21	.12	.01	.75	.62
MAY 17...	.15	.00	.22	.02	.22	.01	.00	--	--
JULY 13...	.05	.01	.18	.12	.18	.02	.01	--	--
AUG. 22...	.11	.00	.18	.07	.18	.00	.00	--	.92
22...	.19	.00	.23	.04	.23	.00	.00	--	.88



## MAD RIVER BASIN

543

11480750 MAD RIVER NEAR KNEELAND, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA+MG) (MG/L)	NON-CARBONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 17...	--	--	--	--	--	--	--	1.0
NOV. 15-16	.11	99.0	56	4	12	.2	--	6.0
DEC. 20...	--	--	--	--	--	--	--	5.0
JAN. 31...	--	--	--	--	--	--	6.0	4.5
FEB. 28...	--	--	--	--	--	--	8.0	2.5
MAR. 26-27	.10	273	44	2	12	.2	--	2.0
MAY. 17...	--	--	--	--	--	--	20.0	1.0
JULY 13...	--	--	--	--	--	--	25.0	1.0
AUG. 22...	.13	22.4	74	7	10	.2	16.0	.5
22...	.12	21.4	66	4	10	.2	21.0	.5

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DND (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)
APR. 11...	1500	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
APR. 11...	.00	.00	.00	.00	.00	.0	.00	.00	.00

## ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV. 15-16	--	0	70	0	0	0	16	2	2.8	20
MAR. 26-27	--	--	0	0	0	0	3	3	--	10
AUG. 22...	0600	--	60	--	--	--	--	--	--	--
22...	1600	--	70	--	--	--	--	--	--	--

## MAD RIVER BASIN

11480750 MAD RIVER NEAR KNEELAND, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.0	13.0	11.5	10.5	9.0	5.5	4.0	6.5	5.5	7.5	7.0
2	20.0	15.0	14.5	12.0	10.0	9.0	5.5	4.5	7.0	6.5	7.5	6.5
3	20.5	15.0	13.0	11.5	10.0	6.5	5.5	4.5	7.5	7.0	7.5	7.0
4	16.5	15.5	12.0	11.0	6.5	5.0	5.0	4.0	7.5	7.0	8.0	7.0
5	20.5	15.5	11.5	10.0	6.0	4.5	4.0	3.5	8.0	7.0	8.0	7.0
6	19.0	14.0	13.0	11.5	5.5	4.0	4.5	4.0	8.0	7.0	8.5	7.5
7	19.0	14.5	12.0	11.0	5.5	4.0	5.0	4.0	8.0	7.5	8.0	7.5
8	17.5	15.0	12.0	10.5	4.5	3.5	5.0	4.0	8.0	8.0	9.0	7.5
9	17.0	15.5	12.0	9.5	4.5	3.5	6.0	5.0	8.5	8.0	9.5	8.5
10	16.0	15.5	10.5	9.0	4.5	3.5	6.5	5.5	8.0	7.0	9.0	7.5
11	16.0	15.0	10.0	8.5	4.5	4.0	7.0	6.5	7.5	7.0	8.5	7.0
12	17.5	15.5	10.0	8.5	4.5	4.0	8.0	7.0	7.5	7.0	8.0	7.0
13	18.0	15.0	10.0	9.0	4.0	3.0	8.0	7.5	7.5	6.5	8.5	7.0
14	16.0	14.5	9.0	8.0	3.5	2.5	7.5	6.5	7.5	7.0	8.5	6.5
15	16.0	14.5	8.5	7.5	3.5	3.0	7.5	6.5	7.5	6.5	9.5	7.0
16	17.0	14.5	8.5	7.5	4.0	2.5	8.0	7.0	7.5	6.5	9.5	8.0
17	17.5	14.0	8.5	6.5	5.0	3.5	7.0	6.5	7.0	6.5	8.5	7.5
18	18.0	13.5	9.5	7.5	7.0	5.0	7.0	6.5	7.5	6.5	9.5	7.5
19	15.0	14.0	9.5	8.0	8.5	7.0	6.5	6.0	7.5	6.0	8.5	6.5
20	18.0	14.0	9.0	7.5	9.5	8.5	7.0	6.0	8.0	6.5	8.0	6.0
21	18.5	13.5	9.5	8.0	10.0	9.0	7.0	6.5	8.5	6.5	7.0	6.5
22	15.5	14.5	9.5	8.0	9.5	8.5	7.0	6.0	8.5	7.0	8.5	6.0
23	18.0	14.0	9.0	8.0	9.0	8.5	6.5	6.0	8.5	7.0	9.0	6.5
24	18.5	13.5	9.5	8.0	8.5	7.5	7.0	6.5	8.5	8.0	9.5	7.0
25	18.0	12.5	10.0	8.5	7.5	7.0	7.0	6.0	8.5	7.5	10.0	9.0
26	17.5	13.0	10.0	9.0	7.5	7.0	6.0	5.0	8.5	8.0	9.5	9.0
27	17.5	12.5	11.0	9.5	7.5	7.0	6.0	5.0	8.0	7.5	9.0	8.0
28	14.5	12.0	10.5	9.5	7.0	6.0	6.5	5.5	8.0	7.5	9.5	7.5
29	16.5	11.5	11.0	9.5	6.0	5.0	7.0	6.0	---	---	9.0	7.5
30	14.5	11.0	11.0	9.0	6.0	5.0	6.5	6.0	---	---	9.5	9.0
31	14.0	10.5	---	---	6.0	5.0	6.5	6.0	---	---	9.0	8.0
MONTH	20.5	10.5	14.5	6.5	10.5	2.5	8.0	3.5	8.5	5.5	10.0	6.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	7.5	15.0	12.5	20.0	17.5	26.5	23.0	23.5	21.0	---	---
2	10.0	7.5	13.5	13.0	19.5	17.0	26.5	23.0	23.5	21.0	---	---
3	11.0	8.5	15.0	13.0	20.5	17.5	26.5	22.5	23.5	20.5	---	---
4	11.5	9.0	14.0	13.0	21.0	17.5	26.5	22.5	23.5	21.0	---	---
5	12.5	10.0	15.0	13.5	21.0	18.0	25.5	22.5	23.5	21.0	---	---
6	12.5	10.5	15.5	13.5	21.5	18.0	25.5	22.5	23.0	20.5	---	---
7	12.5	9.5	14.5	13.5	22.0	19.0	26.5	23.5	24.0	20.5	---	---
8	13.0	10.0	16.0	13.5	23.0	19.5	26.5	23.5	23.0	20.5	---	---
9	12.5	10.5	16.0	13.5	22.5	20.0	27.0	23.5	22.5	20.5	---	---
10	14.5	11.0	16.5	13.5	22.5	20.0	26.5	23.5	23.0	20.5	---	---
11	15.0	12.0	17.0	14.0	23.0	20.0	26.5	23.5	23.0	20.5	---	---
12	12.0	11.5	17.0	14.5	20.5	19.5	27.5	24.5	23.0	20.5	---	---
13	11.5	10.5	17.5	14.5	21.5	20.0	27.5	24.0	23.5	20.5	---	---
14	11.5	10.5	17.5	15.0	21.0	19.5	26.0	23.0	23.5	20.5	---	---
15	13.0	10.5	18.5	15.5	21.5	19.0	25.5	22.5	23.0	20.0	---	---
16	12.0	11.0	18.5	16.0	19.5	18.5	23.5	21.5	22.5	20.5	---	---
17	11.0	9.5	20.0	17.0	20.0	18.5	22.5	20.5	23.0	20.5	---	---
18	10.0	9.0	19.5	17.0	21.5	18.5	22.5	20.5	23.0	20.0	---	---
19	11.0	9.5	17.5	17.0	22.0	18.5	20.5	20.0	22.5	20.0	---	---
20	12.5	9.5	18.5	17.0	20.5	19.0	20.5	20.0	22.5	19.5	---	---
21	12.5	10.0	19.0	16.0	22.5	19.5	22.0	20.0	---	---	---	---
22	13.5	11.0	17.5	16.0	22.5	20.0	21.5	19.0	---	---	---	---
23	14.0	11.5	17.5	15.5	22.5	21.0	21.5	19.0	---	---	---	---
24	14.0	11.5	17.0	16.0	24.0	21.5	20.0	19.0	---	---	---	---
25	14.5	12.0	18.0	16.0	24.0	21.5	22.0	19.0	---	---	---	---
26	14.5	12.0	18.0	15.5	25.0	21.5	22.5	19.0	---	---	---	---
27	13.0	12.5	18.0	15.5	25.5	22.0	22.5	19.0	---	---	---	---
28	15.0	13.0	18.5	15.5	25.5	22.5	22.5	19.5	---	---	---	---
29	15.0	12.5	19.0	16.0	26.0	23.0	23.0	20.0	---	---	---	---
30	15.0	12.5	18.5	17.0	26.0	23.0	23.5	20.5	---	---	---	---
31	---	---	19.0	17.5	---	---	23.5	20.5	---	---	---	---
MONTH	15.0	7.5	20.0	12.5	26.0	17.0	27.5	19.0	---	---	---	---

11480750 MAD RIVER NEAR KNEELAND, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (MG/L)	TUR- BID- ITY (JTU)
OCT. 10...	1155	16.0	130	16	5.6	8
NOV. 30...	1230	9.0	214	10	5.8	7
DEC. 14...	1440	3.0	262	13	9.2	9
JAN. 12...	1615	8.0	8450	1800	41100	250
18...	1730	7.0	8540	1280	29500	220
FEB. 26...	1300	8.0	4240	1160	13300	180
MAR. 20...	1220	8.0	1990	363	1950	95
APR. 03...	1310	11.0	1620	68	297	30
11...	1445	15.0	946	27	69	15
MAY 22...	1345	17.5	171	3	1.4	3
JULY 18...	1320	21.0	108	4	1.2	2

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (MG/L)	TUR- BID- ITY (JTU)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
JAN. 12...	1615	8.0	8450	1800	41100	250	--	--	--	--	--
18...	1730	7.0	8540	1280	29500	220	--	--	--	--	--
FEB. 26...	1300	8.0	4240	1160	13300	180	22	30	39	49	63
MAR. 20...	1220	8.0	1990	363	1950	95	25	35	45	56	67
APR. 03...	1310	11.0	1620	68	297	30	--	--	--	--	--
11...	1445	15.0	946	27	69	15	--	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
JAN. 12...	65	--	76	--	88	--	98	--	100	--
18...	68	--	78	--	90	--	99	--	100	--
FEB. 26...	72	--	86	--	95	--	100	--	--	--
MAR. 20...	77	--	90	--	99	--	100	--	--	--
APR. 03...	--	77	--	82	--	88	--	96	--	100
11...	--	70	--	76	--	84	--	90	--	100

## MAD RIVER BASIN

11480750 MAD RIVER NEAR KNEELAND, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
OCT.								
10...	1155	16.0	--	130	50	.00		
NOV.								
30...	1230	9.0	--	214	53	.00		
DEC.								
14...	1440	3.0	--	262	56	.00		
JAN.								
18...	1630	7.0	5	8540	147	3860		
FEB.								
26...	1340	8.0	5	4240	133	1140		
MAR.								
20...	1315	8.0	5	1990	129	512		
APR.								
03...	1350	11.0	5	1620	118	85		
11...	1335	15.0	5	946	107	21		
MAY								
22...	1345	17.5	--	171	54	.00		

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
JAN.								
18...	1630	7.0	5	8540	147	3860	1	7
FEB.								
26...	1340	8.0	5	4240	133	1140	2	11
MAR.								
20...	1315	8.0	5	1990	129	512	1	7
APR.								
03...	1350	11.0	5	1620	118	85	1	7
11...	1335	15.0	5	946	107	21	1	12

DATE	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.							
18...	14	23	33	50	74	90	100
FEB.							
26...	25	34	43	53	68	82	100
MAR.							
20...	14	23	37	61	86	93	100
APR.							
03...	29	55	67	75	83	88	100
11...	41	67	81	91	99	100	--

## MAD RIVER BASIN

547

11480780 MAD RIVER NEAR BLUE LAKE, CALIF.

LOCATION.--Lat 40°50'47", long 123°58'54", in NW $\frac{1}{4}$  sec.5, T.5 N., R.2 E., Humboldt County, at gaging station 0.3 mile upstream from small left-bank tributary, and 2.4 miles south of town of Blue Lake.

DRAINAGE AREA.--393 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1972 to September 1973.

Water temperatures: October 1972 to September 1973.

Sediment records: Water year 1973 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 25.0°C June 26; minimum, 1.5°C Dec. 14.

REMARKS.--No thermograph record Oct. 1-11, temperature recorder installed Oct. 11; recorder stopped Dec. 4-11, Feb. 10-20.

## CHEMICAL ANALYSES, AUGUST 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CaCO <sub>3</sub> (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)
AUG., 1972									
29...	1700	108	--	--	--	--	8.9	--	--
29...	1800	106	--	--	--	--	8.2	--	--
29...	1900	106	--	--	--	--	7.8	--	--
29...	2000	106	--	--	--	--	7.2	--	--
29...	2100	104	--	--	--	--	7.0	--	--
29...	2200	104	--	--	--	--	7.0	--	--
29...	2300	104	--	--	--	--	7.1	--	--
29...	2400	104	--	--	--	--	7.2	--	--
30...	0100	104	--	--	--	--	7.3	--	--
30...	0200	104	--	--	--	--	7.3	--	--
30...	0300	104	--	--	--	--	7.4	--	--
30...	0400	104	--	--	--	--	7.4	--	--
30...	0500	104	--	--	--	--	7.6	--	--
30...	0600	104	--	--	--	--	7.6	--	--
30...	0700	104	--	--	--	--	7.7	--	--
30...	0800	104	--	--	--	--	7.9	--	--
30...	0900	104	--	--	--	--	8.6	--	--
30...	1000	104	--	--	--	--	9.0	--	--
30...	1100	108	--	--	--	--	9.2	--	--
30...	1200	108	--	--	--	--	9.5	--	--
MAR., 1973									
27...	1130	1650	--	--	--	8.5	--	--	4
AUG.									
23...	0800	99	63	185	8.2	14.7	9.3	91	--
23...	0900	101	--	185	--	14.8	10.2	101	--
23...	1000	103	62	185	8.2	15.8	10.1	102	--
23...	1200	104	63	181	8.4	17.4	10.6	111	--
23...	1400	105	63	179	8.6	20.4	10.4	116	--
23...	1415	105	81	181	8.6	--	--	--	--
23...	1600	105	62	180	8.7	21.5	9.9	113	--
23...	1700	105	--	180	8.6	21.4	9.5	108	--
23...	1800	104	64	181	8.6	21.2	9.1	103	--
23...	1900	104	--	182	8.5	20.8	9.2	103	--
23...	2000	104	62	179	8.5	20.0	8.9	96	--
23...	2200	104	63	181	8.3	18.8	8.4	90	--
23...	2300	104	--	180	--	18.2	8.0	85	--
23...	2400	104	61	182	7.7	17.8	7.9	83	--
24...	0200	104	63	180	7.9	17.0	7.9	82	--
24...	0400	104	62	182	8.0	16.4	8.2	84	--
24...	0600	104	62	182	7.6	16.0	8.5	86	--
24...	0700	104	--	183	--	15.8	8.7	88	--
24...	0800	104	63	--	8.1	--	9.2	--	--
24...	0900	104	--	182	--	16.0	9.4	95	--

## MAD RIVER BASIN

11480780 MAD RIVER NEAR BLUE LAKE, CALIF.--Continued

CHEMICAL ANALYSES, AUGUST 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)
SEP., 1972												
01...	1300	--	96	--	--	--	--	--	--	--	--	--
OCT.												
17...	1330	--	130	--	--	--	--	--	--	--	--	--
NOV.												
15...	1200	--	--	--	--	--	--	--	--	--	--	--
DEC.												
20...	1100	--	2570	--	--	--	--	--	--	--	--	--
JAN., 1973												
31...	1050	--	1930	--	--	--	--	--	--	--	--	--
FEB.												
28...	1130	--	3340	--	--	--	--	--	--	--	--	--
MAR.												
27...	1130	--	1650	--	--	--	--	--	--	--	--	--
MAY												
17...	1545	E230	--	--	--	--	--	--	--	--	--	--
JULY												
13...	1500	--	121	--	--	--	--	--	--	--	--	--
AUG.												
23...	1415	--	105	7.3	30	27	4.1	4.6	1.0	95	2	15

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
SEP., 1972												
01...	--	--	.01	--	.01	--	.15	--	.16	--	.04	.01
OCT.												
17...	--	--	.07	--	.11	.12	.02	.23	.13	.30	.05	.00
NOV.												
15...	--	--	.14	--	.09	.16	.11	.25	.20	.39	.21	.02
DEC.												
20...	--	--	.11	.15	.15	.66	.18	.81	.33	.92	.18	.05
JAN., 1973												
31...	--	--	.13	.25	.25	.10	.00	.35	.22	.48	.26	.00
FEB.												
28...	--	.13	.04	.73	.14	.00	.30	.15	.44	.28	.33	.00
MAR.												
27...	--	.02	.04	.21	.12	.25	.00	.46	.09	.48	.15	.03
MAY												
17...	--	.01	.04	.05	.02	.09	.13	.14	.15	.15	.02	.01
JULY												
13...	--	.03	.00	.13	.12	.00	.00	.10	.12	.13	.03	.03
AUG.												
23...	2.5	.00	.00	.08	.07	.25	.00	.33	.06	.33	.00	.00

E Estimated.



## MAD RIVER BASIN

11480780 MAD RIVER NEAR BLUE LAKE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	13.0	11.5	9.5	8.0	6.0	4.5	7.5	5.5	8.5	7.0
2	---	---	14.0	11.0	10.0	9.0	6.5	5.0	8.0	6.5	8.0	6.0
3	---	---	14.0	12.5	9.5	8.5	6.0	5.0	8.5	7.5	8.0	6.5
4	---	---	13.0	12.0	---	---	5.0	4.5	8.5	7.0	8.0	6.0
5	---	---	12.5	11.0	---	---	5.5	4.0	8.0	7.0	8.0	6.0
6	---	---	11.5	10.0	---	---	6.0	4.5	8.5	7.5	8.5	6.5
7	---	---	12.0	10.5	---	---	6.0	4.5	8.5	7.5	7.5	6.5
8	---	---	12.5	10.5	---	---	5.5	4.0	9.0	8.5	9.0	7.0
9	---	---	12.0	10.5	---	---	7.0	5.0	8.5	8.5	9.5	8.0
10	---	---	12.0	10.0	---	---	7.0	6.0	---	---	9.0	7.5
11	---	---	11.0	10.0	---	---	7.5	7.0	---	---	9.5	7.0
12	17.0	16.0	11.0	10.0	3.5	2.0	8.5	7.5	---	---	9.0	7.0
13	19.0	15.0	11.0	10.0	3.0	2.0	9.0	8.5	---	---	9.5	7.5
14	17.5	14.5	10.5	9.0	3.0	1.5	8.5	7.5	---	---	9.5	7.0
15	16.5	14.5	10.0	8.5	5.5	3.0	8.0	7.5	---	---	10.5	7.0
16	17.5	14.5	10.0	8.5	6.5	5.5	8.5	8.0	---	---	9.5	8.0
17	18.5	14.5	9.5	7.5	7.5	6.0	8.0	7.0	---	---	9.0	7.0
18	17.5	14.0	10.5	8.5	9.5	8.0	8.0	7.0	---	---	9.5	7.0
19	15.5	14.5	10.5	9.5	9.5	9.0	7.0	6.5	---	---	8.5	6.0
20	17.0	14.0	10.0	8.5	10.5	9.5	7.0	6.0	---	---	8.0	6.0
21	17.5	14.0	10.0	9.0	11.0	10.0	7.5	7.0	8.5	6.0	7.5	6.5
22	16.0	15.0	10.0	9.0	10.0	9.5	7.0	6.0	8.0	5.5	9.5	6.5
23	16.5	14.5	10.0	8.5	9.5	9.0	7.0	5.5	8.0	6.0	10.0	6.5
24	18.0	14.0	10.0	8.5	9.0	8.0	7.5	6.5	8.5	7.5	10.5	7.5
25	16.0	12.0	10.0	8.0	8.0	7.5	7.5	6.0	8.5	7.0	10.0	9.0
26	16.5	13.0	10.5	8.5	8.0	7.0	6.0	5.0	8.5	8.0	11.0	9.0
27	15.0	11.5	11.0	10.0	8.5	7.5	6.5	5.0	8.0	7.5	10.0	8.0
28	13.0	11.0	10.5	9.0	7.5	6.5	7.5	5.5	9.0	8.0	10.5	7.5
29	14.0	10.5	11.0	10.0	6.5	5.5	7.5	6.5	---	---	10.0	8.0
30	13.0	9.5	10.0	8.0	7.0	5.5	7.5	6.5	---	---	9.5	9.0
31	13.0	9.0	---	---	6.5	5.5	7.5	6.5	---	---	9.0	7.5
MONTH	---	---	14.0	7.5	---	---	9.0	4.0	---	---	11.0	6.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	7.0	15.5	14.5	21.0	17.5	23.0	20.0	24.0	22.5	22.5	20.5
2	10.5	7.0	15.5	14.5	21.0	17.5	23.0	20.0	24.0	22.5	22.0	20.5
3	12.0	7.5	15.5	14.5	21.5	18.5	23.0	19.5	24.0	22.0	22.0	20.5
4	13.0	8.5	15.5	15.0	22.0	18.5	23.0	20.5	24.0	22.0	22.0	20.0
5	14.0	9.0	16.0	14.5	22.5	19.0	23.0	20.5	24.0	22.5	21.5	20.5
6	13.5	10.0	16.5	15.0	22.0	19.0	23.0	20.0	23.5	22.0	22.0	20.5
7	13.5	9.5	16.5	15.5	22.5	19.5	23.0	20.0	23.5	22.0	22.5	21.0
8	13.5	10.0	16.5	15.0	23.0	19.0	22.5	19.5	23.0	22.0	22.0	20.0
9	13.5	10.5	17.0	16.0	23.0	20.0	23.0	19.5	23.0	22.0	22.0	20.5
10	15.5	10.5	17.5	16.0	22.5	19.5	22.5	20.0	23.0	22.0	22.0	20.5
11	15.5	11.0	17.5	16.5	23.0	19.0	22.5	20.0	23.5	22.0	21.5	20.5
12	13.5	12.0	18.0	17.0	21.5	20.5	22.0	19.5	23.5	22.0	21.0	20.0
13	12.0	11.0	18.5	17.5	22.0	19.5	22.5	19.5	23.5	22.0	21.0	20.0
14	12.5	10.5	18.5	18.0	21.5	19.0	22.5	20.0	24.0	22.0	21.0	19.0
15	15.0	10.0	19.0	18.0	22.5	19.0	23.0	21.0	23.5	22.0	21.0	20.0
16	12.5	11.5	19.5	18.5	21.5	20.5	23.0	21.0	23.5	22.0	21.0	20.0
17	12.0	10.0	19.5	18.5	22.0	19.5	23.5	21.5	23.0	21.5	21.0	19.5
18	11.0	9.0	22.5	19.0	23.0	19.5	23.0	21.5	23.0	21.0	20.5	20.0
19	13.0	9.0	20.5	18.5	23.5	20.0	22.5	21.5	23.0	21.0	20.5	20.0
20	13.5	10.0	21.0	17.5	24.0	21.0	21.5	21.0	23.0	21.5	20.0	19.5
21	14.5	10.5	22.0	16.5	24.0	21.5	23.0	20.5	23.0	21.5	20.0	19.5
22	14.5	12.0	22.0	18.0	22.5	21.5	23.5	21.0	22.5	20.5	20.0	19.5
23	15.0	12.5	21.0	18.5	22.5	20.5	23.0	20.0	22.5	20.5	19.5	19.0
24	15.5	12.5	19.0	18.0	23.5	20.0	23.5	20.5	22.0	20.5	19.0	18.5
25	15.5	13.0	21.0	16.5	24.0	21.5	24.0	21.0	22.5	20.5	18.5	18.0
26	15.5	13.5	20.5	16.5	25.0	22.5	24.0	21.5	23.0	21.0	19.0	18.0
27	15.5	14.0	21.5	17.5	24.5	22.0	24.5	22.0	22.5	21.5	18.5	18.0
28	15.0	13.0	22.0	18.5	23.5	22.0	24.5	22.0	23.0	21.0	19.0	18.0
29	15.0	13.5	22.5	19.0	23.0	21.0	24.0	22.0	23.0	21.5	19.0	18.5
30	15.5	14.0	21.0	19.5	23.0	20.5	24.0	22.0	23.0	21.5	19.0	18.5
31	---	---	20.5	18.5	---	---	24.0	22.0	22.5	21.5	---	---
MONTH	15.5	7.0	22.5	14.5	25.0	17.5	24.5	19.5	24.0	20.5	22.5	18.0



## MAD RIVER BASIN

551

11480780 MAD RIVER NEAR BLUE LAKE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	TUR- BID- ITY (JTU)
OCT. 10...	1445	16.5	128	6	2.1	4
NOV. 30...	1520	9.0	239	17	11	--
DEC. 13...	1530	3.0	350	26	25	--
20...	1530	10.5	2360	864	5510	--
FEB. 21...	1245	8.5	1190	182	585	60
28...	1245	9.0	3310	508	4540	110
MAR. 20...	1410	7.0	2780	507	3810	110
APR. 10...	1230	12.0	986	97	258	40
MAY 18...	1500	19.0	214	7	4.0	4
JUNE 07...	1320	20.5	144	2	.78	2
JULY 17...	1445	22.0	112	3	.91	2
AUG. 28...	1510	21.0	111	2	.60	8

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	TUR- BID- ITY (JTU)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
DEC. 20...	1530	10.5	2360	864	5510	--	20	27	36	45	53
FEB. 21...	1245	8.5	1190	182	585	60	27	36	47	57	65
28...	1245	9.0	3310	508	4540	110	23	33	39	48	56
MAR. 20...	1410	7.0	2780	507	3810	110	22	33	41	52	61
APR. 10...	1230	12.0	986	97	258	40	26	40	49	60	69
JUNE 07...	1320	20.5	144	2	.78	2	--	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
DEC. 20...	62	--	74	--	81	--	93	--	100	--
FEB. 21...	--	70	--	74	--	81	--	96	--	100
28...	66	--	78	--	92	--	100	--	--	--
MAR. 20...	71	--	83	--	97	--	100	--	--	--
APR. 10...	--	73	--	77	--	83	--	97	--	100
JUNE 07...	--	100	--	--	--	--	--	--	--	--

## MAD RIVER BASIN

11480780 MAD RIVER NEAR BLUE LAKE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
OCT. 10...	1445	16.5	--	128	--	.00		
NOV. 30...	1520	9.0	--	239	--	.00		
DEC. 13...	1530	3.0	--	350	--	.00		
20...	1400	10.5	5	2410	278	2680		
FEB. 21...	1335	8.5	5	1190	190	460		
28...	1315	9.0	5	3250	345	988		
MAR. 20...	1440	7.0	5	2850	322	1520		
APR. 10...	1240	12.0	5	986	195	994		
MAY 18...	1500	19.0	--	214	--	.00		
JUNE 07...	1320	20.5	--	144	--	.00		

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
DEC. 20...	1400	10.5	5	2410	278	2680	1	12
FEB. 21...	1335	8.5	5	1190	190	460	1	11
28...	1315	9.0	5	3250	345	988	2	18
MAR. 20...	1440	7.0	5	2850	322	1520	1	6
APR. 10...	1240	12.0	5	986	195	994	--	3

DATE	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. 20...	36	57	73	87	100	--	--
FEB. 21...	26	45	66	84	96	100	--
28...	41	53	66	81	94	99	100
MAR. 20...	13	30	60	86	100	--	--
APR. 10...	10	31	57	82	95	99	100

## MAD RIVER BASIN

553

11480800 NORTH FORK MAD RIVER NEAR KORBEL, CALIF.

LOCATION.--Lat 40°53'11", long 123°56'26", in SW¼ sec.22, T.6 N., R.2 E., Humboldt County, at gaging station 0.5 mile downstream from Bald Mountain Creek, 1.2 miles northeast of Korbek, and 2.5 miles east of town of Blue Lake.

DRAINAGE AREA.--40.4 sq mi.

PERIOD OF RECORD.--Sediment records: Water year 1973 (partial-record station).

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)
OCT.					
03...	1600	16.0	2.1	8	.05
NOV.					
28...	1300	9.5	17	6	.28
DEC.					
12...	1215	3.0	47	21	2.7
18...	1620	10.0	920	1720	4270
JAN.					
23...	1655	7.0	211	45	26
FEB.					
23...	1145	7.0	70	7	1.3
APR.					
12...	1045	11.0	64	7	1.2
JULY					
12...	1110	16.5	6.0	2	.03
AUG.					
30...	1200	16.0	3.2	1	.01

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
DEC.									
18...	1620	10.0	920	1720	4270	16	21	28	36
APR.									
12...	1045	11.0	64	7	1.2	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
DEC.								
18...	46	55	--	66	78	88	97	100
APR.								
12...	--	--	85	--	--	--	--	--

## MAD RIVER BASIN

11480800 NORTH FORK MAD RIVER NEAR KORBEL, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)
OCT. 03...	1600	16.0	--	2.1	9.5	.00
NOV. 28...	1300	9.5	--	17	27	.00
DEC. 12...	1215	3.0	--	47	26	.00
JAN. 23...	1615	7.0	4	211	31	1.2
FEB. 23...	1145	7.0	--	70	29	.00
APR. 12...	1045	11.0	--	64	33	.00
MAY 23...	1600	17.0	--	15	17	.00
JULY 12...	1110	16.5	--	6.0	24	.00
AUG. 30...	1200	16.0	--	3.2	15	.00

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
JAN. 23...	1615	7.0	4	211	31	1.2	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
JAN. 23...	12	29	54	83	96	100

## MAD RIVER BASIN

555

11481000 MAD RIVER NEAR ARCATA, CALIF.

LOCATION.--Lat 40°54'35", long 124°03'35", in NW¼ sec.15, T.6 N., R.1 E., Humboldt County, at gaging station 100 ft upstream from bridge on U.S. Highway 299, 1.0 mile downstream from Warren Creek, and 2.8 miles northeast of Arcata.

DRAINAGE AREA.--485 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1958 to September 1973.

Water temperatures: December 1957 to September 1973.

Sediment records: Water years 1955-57 (partial-record station), December 1957 to September 1973.

Turbidity: Water years 1971-73 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Minimum, 3.0°C Dec. 11.

Sediment concentrations: Maximum daily, 5,860 mg/l Dec. 17; minimum daily, 2 mg/l on many days during June to September.

Sediment discharge: Maximum daily, 162,000 tons Dec. 17; minimum daily, 0.07 ton Aug. 22, Sept. 1.

Period of record:

Water temperatures: Maximum (1963-64, 1965-71), 27.0°C July 6, 27, 28, 1968; minimum, 0.5°C Dec. 17-20, 1965.

Sediment concentrations: Maximum daily, 21,900 mg/l Dec. 23, 1964; minimum daily, 1 mg/l on many days in 1958-60, 1962, 1965, 1967-69, 1972.

Sediment discharge: Maximum daily, 3,140,000 tons Dec. 22, 1964; minimum daily, 0.01 ton July 31, 1970.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Oct. 1-13, May 25 to Sept. 30, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA+MG) (MG/L)
NOV. 13...	1345	418	4.3	78	0	64	3.3	74
JAN. 16...	1340	14700	3.2	51	0	42	5.6	56
MAR. 05...	1330	2450	--	--	--	--	--	--
MAY 22...	1310	128	--	--	--	--	--	--
JULY 09...	1235	30	--	--	--	--	--	--
SEP. 11...	1305	17	--	--	--	--	--	--

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
NOV. 13...	10	.2	165	7.5	11.0	45	10.6	100
JAN. 16...	14	.2	90	7.8	8.5	1100	10.9	0
MAR. 05...	--	--	102	7.3	9.0	95	10.8	--
MAY 22...	--	--	185	7.6	19.0	1	10.1	--
JULY 09...	--	--	215	7.9	21.0	1	10.3	--
SEP. 11...	--	--	198	8.0	16.0	1	12.3	--

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT			NOV			DEC			JAN			FEB			MAR		
	MAX	MIN	DAILY	MAX	MIN	DAILY	MAX	MIN	DAILY	MAX	MIN	DAILY	MAX	MIN	DAILY	MAX	MIN	DAILY
1	--	--	--	12.5	--	10.5	9.0	--	8.0	7.0	--	4.5	8.0	--	5.0	10.5	--	7.5
2	--	--	--	15.5	--	11.5	10.0	--	9.0	7.0	--	5.0	7.5	--	6.0	10.0	--	6.5
3	--	--	--	14.0	--	13.0	9.5	--	8.0	7.0	--	4.5	8.5	--	7.0	9.0	--	7.5
4	--	17.0	--	14.5	--	12.0	8.5	--	6.5	7.0	--	4.0	8.5	--	7.0	9.5	--	7.5
5	--	--	--	14.5	--	11.0	6.5	--	5.5	5.5	--	3.5	8.5	--	7.5	9.0	--	6.5
6	--	--	--	11.0	--	10.5	6.0	--	5.5	7.0	--	4.0	9.0	--	7.5	10.5	--	7.5
7	--	--	--	12.0	--	10.5	7.0	--	5.0	7.0	--	4.0	9.0	--	7.5	8.5	--	7.5
8	--	18.0	--	14.0	--	11.0	6.0	--	4.5	5.5	--	4.0	9.0	--	8.0	11.0	--	7.5
9	--	--	--	12.0	--	11.0	4.5	--	3.5	6.5	--	5.5	9.5	--	8.0	10.5	--	8.5
10	--	--	--	12.5	--	10.5	4.5	--	3.5	7.0	--	6.0	8.5	--	7.5	11.0	--	8.0
11	--	--	--	12.0	--	10.0	4.5	--	3.0	8.0	--	7.0	9.5	--	7.5	11.0	--	7.5
12	--	--	--	12.0	--	9.5	4.5	--	3.5	9.0	--	7.5	8.5	--	7.5	9.5	--	7.0
13	--	15.0	--	11.5	--	10.0	5.0	--	3.5	10.0	--	8.0	9.0	--	6.5	10.0	--	7.5
14	17.0	--	14.5	11.5	--	9.0	4.5	--	3.5	8.5	--	7.5	10.0	--	7.5	11.0	--	6.5
15	16.5	--	14.5	9.5	--	8.5	5.0	--	4.0	8.0	--	7.5	10.0	--	7.0	12.0	--	6.5
16	17.5	--	13.5	11.5	--	8.5	6.5	--	5.0	9.5	--	8.0	10.0	--	6.5	9.0	--	7.5
17	18.0	--	14.5	10.0	--	7.5	7.5	--	6.0	8.0	--	7.0	11.0	--	7.5	10.5	--	9.0
18	18.0	--	14.0	11.0	--	9.0	9.0	--	7.5	8.5	--	7.0	10.0	--	6.5	10.5	--	9.0
19	15.0	--	14.5	12.0	--	9.5	9.5	--	8.5	8.0	--	6.5	10.0	--	8.0	9.0	--	6.5
20	16.0	--	14.0	10.0	--	8.5	10.0	--	9.0	7.0	--	6.0	10.5	--	6.5	8.5	--	6.5
21	16.5	--	13.0	10.5	--	9.5	11.0	--	10.0	9.0	--	7.0	11.0	--	6.0	8.5	--	7.0
22	16.5	--	15.0	11.5	--	9.5	10.5	--	9.0	8.5	--	6.0	9.5	--	6.5	11.0	--	6.0
23	17.5	--	14.5	10.5	--	9.0	9.0	--	9.0	7.5	--	5.5	9.0	--	6.5	11.5	--	6.5
24	19.0	--	14.0	11.5	--	9.5	9.5	--	8.0	8.0	--	6.5	10.0	--	8.5	10.5	--	7.5
25	17.5	--	12.5	11.5	--	9.0	9.5	--	7.5	8.5	--	6.0	9.5	--	8.0	10.5	--	9.0
26	17.0	--	13.0	11.0	--	9.0	8.0	--	7.0	7.0	--	5.0	10.0	--	8.5	12.5	--	8.0
27	15.5	--	10.5	12.0	--	10.5	9.0	--	7.5	6.5	--	5.0	8.5	--	8.0	11.0	--	7.5
28	14.0	--	11.0	11.0	--	9.5	8.5	--	6.0	8.0	--	5.0	9.5	--	8.5	12.5	--	7.5
29	14.0	--	9.5	11.5	--	9.5	7.0	--	5.5	7.5	--	6.5	--	--	--	10.5	--	7.5
30	12.5	--	8.5	11.0	--	8.5	7.5	--	5.5	7.5	--	6.5	--	--	--	9.5	--	8.0
31	12.0	--	8.5	--	--	--	8.0	--	5.0	8.5	--	6.0	--	--	--	9.5	--	7.0
MONTH	--	--	--	15.5	--	7.5	11.0	--	3.0	10.0	--	3.5	11.0	--	5.0	12.5	--	6.0

[illegible]

## 11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

## SUSPENDED-SOLID DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	68	30	5.5	53	7	1.0	190	14	7.2
2	59	20	3.2	113	76	23	182	12	5.9
3	54	15	2.2	157	107	45	404	136	275
4	44	13	1.5	682	432	844	1140	367	1170
5	46	13	1.6	571	258	398	659	145	258
6	51	13	1.8	273	71	52	875	233	550
7	42	13	1.5	375	128	130	740	192	384
8	42	12	1.4	343	64	59	522	161	227
9	44	12	1.4	253	52	36	395	135	144
10	58	12	1.9	407	138	152	347	112	105
11	82	12	2.7	724	349	816	306	93	77
12	127	12	4.1	718	350	679	348	78	73
13	109	12	3.5	445	279	335	366	66	65
14	109	15	4.4	675	458	839	318	57	49
15	105	15	4.3	534	270	389	312	52	44
16	94	14	3.6	570	235	362	1480	1010	6930
17	96	14	3.6	484	90	118	9660	5860	162000
18	84	14	3.2	381	54	56	6420	2520	43700
19	76	12	2.5	493	175	279	5810	2200	34500
20	51	9	1.2	698	240	452	3330	854	7680
21	59	6	.96	519	102	143	2430	570	3740
22	58	4	.63	725	218	430	6690	2720	52000
23	53	4	.57	533	74	106	6350	1650	28300
24	54	4	.58	407	43	47	6810	1580	29100
25	42	4	.45	322	35	30	4320	790	9210
26	54	8	1.2	273	30	22	2950	480	3820
27	47	6	.76	250	26	18	2840	465	3570
28	53	8	1.1	233	23	14	2780	396	2970
29	58	8	1.3	221	21	13	2020	252	1370
30	53	7	1.0	204	17	9.4	1660	191	856
31	47	7	.89	--	--	--	1420	152	583
TOTAL	2019	--	64.54	12636	--	6897.4	74074	--	393763.1

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	1200	134	434	2020	220	1200	3480	640	6010
2	1090	127	374	1780	170	817	2930	405	3200
3	1020	112	304	1630	156	687	3120	445	3750
4	950	89	228	1760	221	1160	3060	340	2810
5	878	73	173	5760	2120	34600	2490	270	1820
6	835	67	151	4290	1000	11600	2400	295	1910
7	795	62	133	3250	645	5660	2200	233	1380
8	780	56	118	2550	445	3060	2000	204	1100
9	1190	250	952	2260	355	2170	1790	172	831
10	1790	490	2370	4990	1940	28200	2650	349	2970
11	3650	1370	17300	4730	1400	17900	3430	390	3610
12	8740	2920	69800	4730	770	9830	2480	289	1940
13	10100	2590	71500	3670	470	4660	2040	220	1210
14	6650	1380	24800	3100	340	2850	1740	170	799
15	4600	370	4600	2840	292	2240	1540	146	607
16	10800	3500	113000	2330	269	1690	1500	168	680
17	10400	2170	60900	2020	234	1280	1880	225	1140
18	9730	1800	47300	1770	200	956	1610	125	543
19	8280	1270	28400	1600	188	812	3000	415	4370
20	5920	840	13400	1440	196	762	4310	445	5180
21	5040	600	8160	1300	166	583	3580	362	3500
22	3810	450	4630	1190	138	443	2880	314	2440
23	2940	340	2700	1110	125	375	2350	260	1650
24	2560	262	1810	1420	262	1330	2120	230	1320
25	3160	454	3870	3370	1130	10300	2000	195	1050
26	2660	315	2260	3510	820	8390	1830	166	820
27	2240	230	1390	3890	890	9350	1640	147	651
28	1960	204	1080	3220	590	5130	1500	132	535
29	1920	290	1500	--	--	--	1340	130	470
30	2200	325	1930	--	--	--	2510	403	3440
31	2380	369	2370	--	--	--	3150	528	4490
TOTAL	120268	--	487941	77530	--	168035	74550	--	66226

## MAD RIVER BASIN

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	3240	412	3600	295	13	10	123	3	1.0
2	2610	271	1910	285	10	7.7	114	3	.92
3	2080	185	1040	280	9	6.8	103	3	.83
4	1780	142	682	316	18	15	88	3	.71
5	1600	119	514	339	26	24	80	3	.65
6	1480	102	408	309	18	15	73	3	.59
7	1350	90	328	290	10	7.8	68	3	.55
8	1220	82	270	276	10	7.5	66	3	.53
9	1140	88	271	257	16	11	60	3	.49
10	1080	80	233	248	14	9.4	57	3	.46
11	1040	85	239	234	14	8.8	54	3	.44
12	1000	122	329	252	14	9.5	53	3	.43
13	960	73	189	230	12	7.5	59	11	1.8
14	882	51	121	217	12	7.0	55	4	.59
15	801	45	97	203	12	6.6	51	3	.41
16	774	45	94	186	10	5.0	54	3	.44
17	995	62	167	176	8	3.8	81	2	.44
18	876	47	111	163	7	3.1	93	2	.50
19	860	59	137	158	6	2.6	72	3	.58
20	737	49	98	153	5	2.1	73	3	.59
21	670	40	72	153	3	1.2	56	3	.45
22	616	38	63	134	3	1.1	51	3	.41
23	586	38	60	127	3	1.0	50	3	.41
24	538	35	51	185	3	1.5	49	3	.40
25	460	31	39	247	13	8.7	47	2	.25
26	430	29	34	201	10	5.4	45	2	.24
27	409	28	31	170	6	2.8	42	4	.45
28	382	28	29	127	4	1.4	51	2	.28
29	350	28	26	113	6	1.8	66	2	.36
30	319	23	20	127	5	1.7	69	3	.56
31	--	--	--	128	4	1.4	--	--	--
TOTAL	31265	--	11263	6579	--	198.2	2003	--	16.76

DAY	JULY			AUGUST			SEPTEMBER		
	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	56	3	.45	25	2	.14	13	2	.07
2	46	3	.37	38	2	.21	14	2	.08
3	69	3	.56	34	2	.18	28	3	.23
4	67	3	.54	24	2	.13	26	3	.21
5	53	2	.29	22	2	.12	19	3	.15
6	44	2	.24	23	2	.12	18	3	.15
7	38	2	.21	23	2	.12	18	3	.15
8	34	3	.28	20	2	.11	21	3	.17
9	30	4	.32	19	3	.15	20	3	.16
10	27	3	.22	16	4	.17	16	2	.09
11	25	3	.20	15	4	.16	15	2	.08
12	24	3	.19	16	3	.13	18	2	.10
13	27	2	.15	15	3	.12	18	2	.10
14	26	2	.14	16	3	.13	18	2	.10
15	28	2	.15	20	3	.16	21	4	.23
16	28	2	.15	20	3	.16	29	4	.31
17	27	2	.15	16	3	.13	27	3	.22
18	23	2	.12	18	3	.15	26	3	.21
19	17	2	.09	18	3	.15	38	5	.51
20	24	2	.13	17	3	.14	104	10	2.8
21	24	2	.13	16	2	.09	89	8	1.9
22	21	3	.17	13	2	.07	99	8	2.1
23	19	3	.15	12	3	.10	361	26	25
24	17	3	.14	19	3	.15	488	22	29
25	17	3	.14	24	3	.19	399	16	17
26	16	3	.13	23	2	.12	211	12	6.8
27	15	3	.12	19	2	.10	141	10	3.8
28	18	3	.15	18	2	.10	110	7	2.1
29	19	3	.15	17	2	.09	94	4	1.0
30	22	3	.18	17	2	.09	85	3	.69
31	21	2	.11	14	2	.08	--	--	--
TOTAL	922	--	6.52	607	--	4.06	2584	--	95.51

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

405037

1134511.09



11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BED-LOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1972	2019.00	64.54	0	65
NOVEMBER ...	12636.00	6897.40	7	6900
DECEMBER ...	74074.00	393763.10	7470	401000
JANUARY 1973	120268.00	487941.00	12300	500000
FEBRUARY ...	77530.00	168035.00	8400	176000
MARCH .....	74550.00	66226.00	8060	74300
APRIL .....	31265.00	11263.00	1440	12700
MAY .....	6579.00	198.20	0	198
JUNE .....	2003.00	16.76	0	17
JULY .....	922.00	6.52	0	7
AUGUST .....	607.00	4.06	0	4
SEPTEMBER ..	2584.00	95.51	0	96
TOTAL .....	405037.00	1134511.09	37677	1171287

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV. 04...	1000	12.0	684	601	1110	--	--	--	--	--
DEC. 04...	1125	8.0	1230	367	1220	16	35	51	68	82
17...	1740	7.5	10700	5190		--	--	--	--	--
20...	1100	10.0	3510	782	7410	23	32	41	51	61
22...	1600	10.0	8760	3790	89600	19	21	29	40	47
23...	1025	9.0	6200	1490	24900	20	25	34	43	53
25...	1100	8.0	4380	791	9350	20	27	36	46	54
JAN. 12...	1125	9.0	9340	3460	87300	18	23	33	44	57
16...	1625	9.5	13600	4010		21	27	42	47	58
21...	1345	9.0	4950	599	8010	24	33	42	53	63
24...	1105	8.0	2440	235	1550	41	51	64	75	81
FEB. 12...	0900	8.5	5040	780	10600	18	25	33	42	49
20...	1355	10.0	1420	198	759	25	38	52	67	81
MAR. 01...	1200	9.0	3840	714	7400	20	27	36	46	55
20...	1300	7.0	4060	417	4570	23	31	40	50	57
31...	0900	8.5	3130	527	4450	23	30	39	49	58
APR. 12...	1425	13.5	980	125	331	29	41	56	69	80
MAY 25...	1500	16.0	238	13	8.4	--	--	--	--	--
JUNE 13...	1745	22.0	53	11	1.6	--	--	--	--	--

## MAD RIVER BASIN

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.									
04...	--	99	--	100	--	--	--	--	--
DEC.									
04...	89	--	94	--	98	--	100	--	--
17...	63	--	78	--	93	--	98	--	100
20...	69	--	76	--	84	--	100	--	--
22...	65	--	79	--	90	--	98	--	100
23...	62	--	70	--	84	--	100	--	--
25...	63	--	72	--	83	--	99	--	100
JAN.									
12...	67	--	86	--	95	--	98	--	100
16...	69	--	85	--	96	--	100	--	--
21...	72	--	83	--	96	--	100	--	--
24...	--	86	--	91	--	95	--	100	--
FEB.									
12...	60	--	74	--	92	--	100	--	--
20...	--	88	--	97	--	99	--	100	--
MAR.									
01...	67	--	81	--	93	--	99	--	100
20...	68	--	81	--	98	--	100	--	--
31...	66	--	77	--	95	--	100	--	--
APR.									
12...	--	88	--	97	--	99	--	100	--
MAY									
25...	--	81	--	81	--	100	--	--	--
JUNE									
13...	--	68	--	77	--	87	--	100	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBR OF SAMP- LING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	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	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
NOV.											
20...	1515	1	664	2	13	29	42	55	69	88	100
20...	1520	1	664	2	12	26	38	53	72	91	100
20...	1525	1	664	4	24	44	57	72	89	100	--
20...	1530	1	664	2	12	19	25	35	52	80	100
20...	1535	1	664	2	5	10	18	28	43	84	100
20...	1540	1	664	1	3	4	6	10	18	59	100
20...	1545	1	664	--	--	6	23	30	44	100	--

## MAD RIVER BASIN

561

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE,  
WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
OCT. 13...	1200	15.0	--	108	51	.00		
NOV. 29...	1400	10.0	--	219	56	.00		
FEB. 20...	1500	10.0	5	1430	169	330		
MAR. 01...	1300	9.0	7	3850	192	753		
MAR. 20...	1345	7.0	5	4030	173	246		
APR. 12...	1510	13.5	4	980	162	5.8		
MAY 25...	1500	16.0	--	238	117	.00		
JUNE 27...	1710	20.5	--	42	106	.00		
JULY 12...	1505	21.0	--	23	27	.00		
AUG. 30...	1400	20.0	--	19	26	.00		
FEB. 20...	1500	10.0	5	1430	169	330	--	1
MAR. 01...	1300	9.0	7	3850	192	753	--	3
MAR. 20...	1345	7.0	5	4030	173	246	1	9
APR. 12...	1510	13.5	4	980	162	5.8	--	16
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
FEB. 20...	12	54	87	96	98	99	100	
MAR. 01...	18	41	63	75	86	98	100	
MAR. 20...	51	67	80	88	95	98	100	
APR. 12...	81	94	96	97	99	100	--	

## MAD RIVER BASIN

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued  
 PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
 CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PEN- DED- SED- MENT (MG/L)	TUR- BID- ITY (JTU)
OCT.			
04...	--	13	5
08...	--	12	10
13...	--	10	7
15...	--	15	9
18...	--	14	9
21...	--	6	4
23...	--	4	3
26...	--	8	4
28...	--	8	5
31...	--	7	4
NOV.			
02...	--	79	45
03...	--	87	60
04...	--	601	240
05...	--	279	140
06...	--	61	50
07...	--	170	120
08...	--	61	40
10...	--	194	85
13...	--	270	120
14...	--	518	180
16...	--	294	130
17...	--	88	50
18...	--	52	30
19...	--	68	45
20...	--	252	110
21...	--	72	45
22...	--	234	100
23...	--	72	35
24...	--	44	25
28...	--	19	10
29...	--	24	15
DEC.			
01...	--	11	7
02...	--	13	9
04...	--	367	190
05...	--	128	50
06...	--	233	70
12...	--	77	20
14...	--	54	20
16...	--	716	190
17...	0850	7790	200
17...	1550	7770	190
17...	1740	5190	200
18...	--	1860	200
19...	--	2170	210
20...	--	782	140
21...	--	472	100
22...	0810	2720	230
22...	1220	3380	230
22...	1600	3790	220
23...	--	1490	190
24...	--	1590	200
25...	--	791	130
26...	--	450	100
27...	--	405	95
28...	--	397	90
29...	--	249	80
30...	--	190	65
31...	--	145	60
JAN.			
01...	--	129	50
03...	--	123	55
04...	--	88	45
05...	--	70	35
06...	--	67	35
07...	--	64	35
08...	--	54	30
09...	--	194	30
10...	--	569	120
11...	--	1440	180
12...	--	3460	200
13...	--	2590	220
14...	--	1300	190
15...	--	828	150
16...	1010	5320	750
16...	1625	4010	850
17...	--	2070	240
18...	--	2090	250
19...	--	1280	200
20...	--	864	160
21...	--	599	140
22...	--	449	110
24...	--	235	90
25...	--	450	100
26...	--	311	100
27...	--	224	80
28...	--	00	75
29...	--	231	85
30...	--	309	100
31...	--	387	100

DATE	TIME	SUS- PEN- DED- SED- MENT (MG/L)	TUR- BID- ITY (JTU)
FEB.			
01...	--	210	75
02...	--	169	65
04...	--	152	60
06...	--	995	150
08...	--	449	100
10...	--	2480	200
12...	--	780	140
14...	--	342	95
16...	--	267	85
18...	--	200	70
20...	--	198	75
24...	--	122	50
25...	--	1040	180
26...	--	491	110
27...	--	905	140
28...	--	572	110
MAR.			
01...	--	723	130
02...	--	383	95
03...	--	585	110
04...	--	324	90
05...	--	263	80
06...	--	388	100
07...	--	236	80
08...	--	206	75
09...	--	171	60
10...	--	263	75
13...	--	221	70
14...	--	167	60
15...	--	150	50
16...	--	124	55
17...	--	228	75
18...	--	114	45
19...	--	835	130
20...	--	417	100
22...	--	326	55
23...	--	273	55
25...	--	205	65
26...	--	156	60
27...	--	144	60
28...	--	129	60
29...	--	129	50
30...	--	279	75
31...	--	527	130
APR.			
01...	--	388	95
02...	--	272	60
03...	--	187	55
04...	--	141	55
05...	--	120	50
06...	--	110	45
07...	--	90	40
08...	--	67	40
10...	--	74	35
11...	--	79	35
12...	--	125	60
14...	--	51	30
15...	--	45	35
19...	--	63	30
21...	--	40	20
23...	--	43	20
25...	--	25	15
27...	--	28	10
29...	--	28	10
MAY			
01...	--	13	6
03...	--	9	5
05...	--	26	15
07...	--	10	7
09...	--	16	7
15...	--	12	5
18...	--	7	7
21...	--	3	3
25...	1245	12	10
25...	1500	13	20
25...	1530	10	7
29...	--	6	3
JUNE			
01...	--	3	2
05...	--	3	3
08...	--	3	2
11...	--	3	2
13...	--	11	10
16...	--	3	2
18...	--	2	2
20...	--	3	2
22...	--	3	2
26...	--	2	2
27...	--	4	3
28...	--	2	2
30...	--	3	2

## MAD RIVER BASIN

563

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued  
 PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
 CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PENDED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
JULY			
03...	--	3	2
06...	--	2	2
09...	--	4	2
12...	--	3	2
13...	--	2	2
16...	--	2	2
21...	--	2	2
24...	--	3	3
28...	--	3	2
31...	--	2	2
AUG.			
04...	--	2	2
07...	--	2	2
10...	--	4	2
15...	--	3	2
18...	--	3	2
21...	--	2	2
24...	--	3	2
27...	--	2	2
30...	--	2	2
31...	--	2	2
SEP.			
05...	--	3	2
08...	--	3	2
12...	--	2	2
15...	--	4	2
18...	--	3	3
21...	--	8	9
26...	--	12	9
29...	--	4	4



11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	9.6	3	.08	13	3	.11	43	10	1.2
2	8.9	3	.07	32	14	1.2	40	8	.86
3	8.5	3	.07	63	30	5.1	40	6	.65
4	8.1	3	.07	210	180	102	230	200	124
5	7.8	3	.06	120	73	24	146	100	39
6	7.4	3	.06	63	29	4.9	166	120	54
7	7.0	3	.06	118	70	22	140	100	38
8	7.0	3	.06	74	35	7.0	109	70	21
9	7.4	3	.06	71	30	5.8	89	50	12
10	11	5	.15	112	65	20	83	40	9.0
11	16	7	.30	161	120	52	74	30	6.0
12	19	10	.51	116	70	22	81	40	8.7
13	14	3	.11	96	52	13	80	35	7.6
14	13	3	.11	111	64	19	71	30	5.8
15	12	3	.10	81	40	8.7	73	25	4.9
16	11	3	.09	83	40	9.0	480	660	855
17	12	3	.10	64	30	5.2	1670	5000	22500
18	11	3	.09	65	25	4.4	1200	3450	11200
19	11	3	.09	345	400	373	1020	2200	6060
20	10	3	.08	246	220	146	579	850	1330
21	10	3	.08	169	100	46	574	700	1080
22	10	3	.08	178	140	67	1580	4000	17100
23	9.6	3	.08	123	75	25	993	2000	5360
24	9.3	3	.08	97	50	13	679	1100	2020
25	8.9	3	.07	82	35	7.7	455	600	737
26	8.5	3	.07	68	30	5.5	347	400	375
27	7.8	3	.06	62	25	4.2	470	600	761
28	9.3	3	.08	56	20	3.0	342	420	388
29	9.6	3	.08	49	15	2.0	288	373	290
30	9.3	3	.08	46	10	1.2	256	260	180
31	8.9	3	.07	--	--	--	224	218	132
TOTAL	312.9	--	3.15	3174	--	1019.01	12622	--	70700.71

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	186	188	94	450	189	230	504	725	996
2	168	175	79	340	142	130	416	465	522
3	168	128	58	500	150	203	448	444	539
4	165	103	46	701	1590	3010	425	235	270
5	146	98	39	681	1510	2780	368	185	184
6	139	94	35	421	680	773	320	284	245
7	136	87	32	374	400	404	280	130	98
8	130	54	19	370	330	330	256	135	93
9	133	880	316	396	460	492	252	87	59
10	186	370	186	705	1350	2570	491	684	1060
11	420	2350	2660	529	630	900	487	540	710
12	1100	3160	9390	496	472	632	388	185	194
13	1170	2020	6380	398	411	442	342	148	137
14	592	980	1570	392	358	379	300	143	116
15	512	780	1080	358	305	295	257	130	90
16	1020	5120	29100	325	255	224	253	153	109
17	1050	1980	5610	300	210	170	275	133	99
18	1400	2520	10200	276	182	136	218	98	58
19	949	1250	3200	248	153	102	500	294	397
20	752	1040	2110	224	132	80	700	193	365
21	930	990	2490	220	118	70	650	177	311
22	620	590	988	210	102	58	600	168	272
23	460	490	609	200	87	47	550	160	238
24	460	780	969	407	248	358	500	152	285
25	720	680	1320	513	835	1160	462	146	182
26	550	384	570	541	801	1190	401	136	147
27	400	353	381	476	710	912	347	126	118
28	280	248	187	419	638	722	316	118	101
29	220	270	160	--	--	--	292	112	88
30	350	236	223	--	--	--	622	845	1680
31	600	245	397	--	--	--	623	708	1190
TOTAL	16912	--	80498	11470	--	18799	12843	--	10873

## REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	598	415	670	108	5	1.5	50	2	.27
2	528	290	413	103	4	1.1	49	3	.40
3	475	223	286	101	4	1.1	49	3	.40
4	440	192	228	103	3	.83	47	2	.25
5	425	110	126	96	3	.78	46	1	.12
6	395	94	100	89	3	.72	46	1	.12
7	365	105	103	85	2	.46	44	1	.12
8	338	108	99	85	2	.46	44	1	.12
9	316	98	84	82	3	.66	44	1	.12
10	296	82	66	80	2	.43	43	1	.12
11	292	72	57	76	1	.21	43	1	.12
12	276	65	48	75	1	.20	41	1	.11
13	268	57	41	75	1	.20	41	1	.11
14	244	44	29	76	1	.21	41	1	.11
15	224	31	19	75	1	.20	41	1	.11
16	216	32	19	73	1	.20	41	2	.22
17	329	116	103	71	1	.19	49	10	1.3
18	240	48	31	69	1	.19	43	4	.46
19	228	34	21	64	1	.17	40	3	.32
20	196	15	7.9	64	1	.17	38	2	.21
21	182	12	5.9	64	1	.17	35	1	.09
22	172	11	5.1	62	1	.17	31	1	.08
23	168	11	5.0	62	2	.33	31	1	.08
24	158	12	5.1	71	2	.38	29	1	.08
25	155	12	5.0	67	2	.36	30	1	.08
26	155	11	4.6	61	1	.16	29	1	.08
27	149	9	3.6	58	1	.16	27	1	.07
28	136	8	2.9	55	1	.15	25	1	.07
29	125	7	2.4	53	1	.14	25	1	.07
30	117	6	1.9	52	5	.70	25	1	.07
31	--	--	--	52	3	.42	--	--	--
TOTAL	8206	--	2592.4	2307	--	13.12	1167	--	5.88

DAY	JULY			AUGUST			SEPTEMBER		
	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	24	1	.06	5.5	1	.01	3.9	1	.01
2	23	1	.06	5.1	1	.01	3.9	1	.01
3	24	1	.06	5.1	1	.01	3.6	1	.01
4	23	1	.06	5.1	1	.01	3.6	1	.01
5	21	1	.06	5.1	1	.01	3.6	1	.01
6	19	1	.05	5.1	1	.01	3.6	1	.01
7	19	1	.05	5.5	1	.01	3.6	1	.01
8	18	1	.05	5.5	1	.01	3.6	1	.01
9	15	1	.04	5.5	1	.01	3.6	1	.01
10	14	1	.04	5.5	1	.01	3.6	1	.01
11	13	1	.04	5.5	1	.01	3.6	1	.01
12	12	1	.03	5.5	1	.01	3.6	1	.01
13	11	1	.03	5.9	1	.02	3.6	1	.01
14	9.3	1	.03	5.5	1	.01	3.6	1	.01
15	7.8	1	.02	5.1	1	.01	3.6	1	.01
16	7.8	1	.02	5.1	1	.01	3.6	1	.01
17	7.8	1	.02	5.1	1	.01	3.6	1	.01
18	7.8	1	.02	5.1	1	.01	3.6	1	.01
19	7.8	1	.02	4.7	1	.01	8.2	6	.13
20	7.8	1	.02	4.7	1	.01	36	40	3.9
21	7.8	1	.02	4.7	1	.01	14	18	.68
22	7.8	1	.02	4.3	1	.01	48	15	1.9
23	7.3	1	.02	4.3	1	.01	193	250	130
24	7.3	1	.02	4.7	1	.01	190	60	31
25	6.3	1	.02	5.1	1	.01	92	50	12
26	6.3	1	.02	5.1	1	.01	35	30	2.8
27	5.9	1	.02	4.7	1	.01	19	8	.41
28	5.9	1	.02	4.3	1	.01	13	4	.14
29	5.9	1	.02	4.3	1	.01	9.6	3	.08
30	5.5	1	.01	4.3	1	.01	8.1	2	.04
31	5.5	1	.01	3.9	1	.01	--	--	--
TOTAL	363.6	--	.98	154.9	--	.32	731.3	--	183.26

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

70263.7

184688.83



## REDWOOD CREEK BASIN

567

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
13...	1310	9.5	97	563	147	21	30	43	57	68	81
DEC.											
18...	1400	7.5	946	3380	8630	21	26	39	50	61	70
JAN.											
13...	0815	7.0	1280	2200	7600	11	24	35	43	54	62
15...	1250	10.0	480	675	875	23	34	49	59	73	81
16...	0915	8.0	2080	10400	58400	17	22	31	40	51	61
18...	1500	6.0	1700	2900	13300	15	23	32	41	52	61
FEB.											
02...	0930	5.0	340	146	134	--	--	--	--	--	--
20...	1225	5.0	216	128	75	--	--	--	--	--	--
MAR.											
08...	1135	7.5	268	131	95	--	--	--	--	--	--
19...	0950	5.0	333	605	544	27	39	50	63	73	80
31...	0930	6.0	582	713	1120	17	24	32	42	50	59
APR.											
04...	1045	7.0	440	202	240	--	--	--	--	--	60

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
NOV.											
13...	--	--	--	93	--	100	--	--	--	--	--
DEC.											
18...	--	80	--	92	--	99	--	100	--	--	--
JAN.											
13...	--	72	--	85	--	96	--	99	--	100	--
15...	--	88	--	94	--	99	--	100	--	--	--
16...	--	78	--	93	--	99	--	100	--	--	--
18...	--	75	--	90	--	100	--	--	--	--	--
FEB.											
02...	83	--	86	--	91	--	96	--	99	--	100
20...	53	--	56	--	62	--	78	--	95	--	100
MAR.											
08...	55	--	59	--	66	--	82	--	96	--	100
19...	--	87	--	96	--	100	--	--	--	--	--
31...	--	69	--	84	--	99	--	100	--	--	--
APR.											
04...	--	67	--	78	--	97	--	100	--	--	--

## REDWOOD CREEK BASIN

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.

LOCATION.--Lat 41°10'19", long 123°56'55", in SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec.16, T.9 N., R.2 E., Humboldt County, Redwood National Park (south boundary), at gaging station 150 ft (revised) downstream from Slide Creek, 8.6 miles southeast of Orick, and 17 miles upstream from mouth.

DRAINAGE AREA.--185 sq mi (revised).

PERIOD OF RECORD.--Chemical analyses: Water years 1971-73 (partial-record station).  
Sediment records: Water years 1971-73 (partial-record station).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	ALKALINITY AS CaCO <sub>3</sub> (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)
NOV.									
20...	1700	474	46	135	7.6	9.0	11.5	99	--
20...	1800	462	44	134	7.5	9.5	11.5	100	41
20...	2000	441	43	137	7.5	8.5	11.6	99	--
20...	2200	423	44	136	7.5	8.5	11.6	99	--
20...	2400	402	46	135	7.4	8.0	11.6	97	22
21...	0300	378	44	133	7.5	8.0	11.8	99	--
21...	0600	357	44	131	7.4	8.0	11.7	98	>0
21...	0800	354	--	131	7.4	8.0	11.8	99	--
21...	1000	354	--	131	7.4	8.0	11.7	98	--
21...	1200	360	--	129	7.4	8.5	11.5	98	56
21...	1400	381	--	127	7.4	8.5	11.1	94	--
21...	1600	399	--	127	7.4	9.0	11.1	96	--
MAR.									
28...	1900	1050	30	97	7.3	9.5	10.7	94	4
28...	2100	1040	23	98	7.3	9.0	11.1	96	--
28...	2300	1040	30	99	7.2	8.0	10.8	91	---
29...	0100	1040	31	93	7.2	8.0	10.7	90	18
29...	0600	1030	26	93	6.9	7.0	11.9	97	--
29...	0700	1030	32	97	7.2	7.0	11.6	95	5
29...	0900	1020	31	102	7.0	7.0	11.6	95	--
29...	1100	1020	30	100	7.2	7.0	11.8	97	3
29...	1300	1020	26	98	7.2	8.0	11.5	97	3
29...	1500	1010	33	95	7.4	8.5	11.3	96	--
29...	1700	1010	30	95	7.3	9.0	11.3	97	--
29...	1900	1000	30	97	7.2	9.0	11.1	96	4
JUNE									
12...	2000	65	39	136	8.2	17.0	9.4	97	11
12...	2200	65	46	138	7.9	16.5	9.4	96	--
12...	2400	67	49	187	7.8	16.0	9.5	96	--
13...	0200	67	48	165	7.5	15.0	9.5	94	E7
13...	0400	67	41	179	8.0	14.5	9.4	92	--
13...	0600	67	49	168	7.9	14.0	9.5	92	--
13...	0800	67	51	185	8.1	14.5	9.8	96	15
13...	1000	68	51	160	8.1	16.0	9.8	99	--
13...	1200	67	49	196	8.2	17.0	9.8	101	--
13...	1400	68	49	154	8.3	18.5	9.5	101	37
13...	1600	68	48	177	8.3	18.5	9.3	99	--
13...	1800	68	51	183	8.2	18.0	9.4	99	--
13...	2000	68	51	133	8.2	17.5	9.3	97	1600

DATE	DIS-CHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)
NOV.							
20-21	391	--	.04	--	.14	.09	.03
MAR.							
28-29	1020	.02	.05	.10	.04	.85	.15
JUNE							
12-13	67	.00	.04	.05	.04	.17	.10

DATE	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.						
20-21	.23	.17	.27	.20	.01	3.0
MAR.						
28-29	.95	.19	.97	.15	.03	--
JUNE						
12-13	.22	.14	.22	.03	.02	.5

## REDWOOD CREEK BASIN

569

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.--Continued  
 SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
NOV. 17...	1320	10.0	147	65	26
FEB. 01...	1510	7.0	1030	205	570
MAR. 06...	1330	8.0	1190	325	1040
APR. 05...	1340	10.0	1030	241	670
MAY 21...	1325	17.5	131	6	2.1
JUNE 20...	1230	10.0	65	2	.35

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV. 17...	1320	10.0	147	65	26	--	--	--	--	--
FEB. 01...	1510	7.0	1030	205	570	29	42	56	68	77
MAR. 06...	1330	8.0	1190	325	1040	21	29	38	48	56
APR. 05...	1340	10.0	1030	241	670	25	35	46	58	67

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV. 17...	--	92	--	94	--	97	--	99	--	100
FEB. 01...	--	82	--	86	--	91	--	100	--	--
MAR. 06...	63	--	71	--	81	--	98	--	100	--
APR. 05...	73	--	78	--	85	--	96	--	100	--

## REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CALIF.

LOCATION.--Lat 41°17'18", long 124°03'27", in NE¼NE¼ sec.4, T.10 N., R.1 E., Humboldt County, at gaging station at bridge on U.S. Highway 101 at Orick, 0.9 mile downstream from Prairie Creek.

DRAINAGE AREA.--278 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1958 to September 1966, October 1972 to September 1973.

Water temperatures: October 1965 to September 1973.

Sediment records: Water years 1955-56 (partial-record station), March 1970 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 23.5°C Aug. 25, 28; minimum, 3.5°C Dec. 8.

Sediment concentrations: Maximum daily, 5,020 mg/l Dec. 17; minimum daily, 1 mg/l on many days.

Sediment discharge: Maximum daily, 115,000 tons Dec. 17; minimum daily, 0.05 ton on several days during August.

Period of record:

Water temperatures: Maximum (1969-71, 1972-73), Maximum, 23.5°C Aug. 25, 28, 1973; minimum, 1.0°C Dec. 14,

1967.

Sediment concentrations: Maximum daily, 8,840 mg/l Mar. 3, 1972; minimum daily, 1 mg/l on many days in 1970 and 1973.

Sediment discharge: Maximum daily, 861,000 tons Mar. 2, 1972; minimum daily, 0.03 ton Oct. 7, 8, 11, 12, 1970.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Oct. 1 to Jan. 30, Mar. 3 to July 9, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA+MG) (MG/L)
OCT. 02...	1415	--	28	--	--	--	--	--	--
NOV. 13...	1430	--	292	--	--	--	--	--	--
DEC. 04...	1400	E700	--	3.9	52	0	43	3.8	63
JAN. 16...	1430	--	8870	2.9	30	0	25	7.0	33
FEB. 05...	1345	--	2480	--	--	--	--	--	--
MAR. 05...	1430	--	1500	--	--	--	--	--	--
APR. 02...	1335	--	2260	--	--	--	--	--	--
MAY 22...	1355	--	174	--	--	--	--	--	--
JUNE 19...	1415	--	103	3.9	76	0	62	4.4	72
JULY 09...	1355	--	53	--	--	--	--	--	--
AUG. 06...	1610	--	23	--	--	--	--	--	--
SEP. 11...	1400	--	13	--	--	--	--	--	--

E Estimated.

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT. 02...	--	--	206	7.7	18.0	1	10.5	--
NOV. 13...	--	--	183	7.3	11.0	105	10.5	--
DEC. 04...	20	.2	143	7.4	7.0	250	11.4	0
JAN. 16...	8	.2	73	7.8	9.0	1200	11.1	0
FEB. 05...	--	--	86	7.2	9.0	1100	11.3	--
MAR. 05...	--	--	92	7.2	9.0	75	10.1	--
APR. 02...	--	--	84	7.4	9.0	180	10.7	--
MAY 22...	--	--	143	7.5	18.5	1	10.0	--
JUNE 19...	10	.2	165	7.5	21.5	0	9.1	0
JULY 09...	--	--	180	7.6	21.5	1	9.7	--
AUG. 06...	--	--	182	7.3	19.0	1	10.0	--
SEP. 11...	--	--	167	7.6	17.0	1	11.8	--

## REDWOOD CREEK BASIN

571

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT			NOV			DEC			JAN			FEB			MAR		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	--	--	--	--	--	--	--	7.5	--	--	7.0	--	8.0	--	7.5	9.5	--	9.5
2	--	--	--	--	10.5	--	--	11.5	--	--	7.5	--	8.0	--	7.5	9.5	--	8.5
3	--	18.5	--	--	13.0	--	--	9.5	--	--	6.5	--	8.5	--	8.0	--	--	--
4	--	--	--	--	13.5	--	--	7.5	--	--	6.5	--	8.5	--	8.0	--	9.5	--
5	--	18.0	--	--	12.0	--	--	6.0	--	--	6.5	--	8.5	--	8.0	--	9.5	--
6	--	--	--	--	9.5	--	--	6.0	--	--	6.0	--	9.0	--	8.5	--	10.5	--
7	--	--	--	--	11.0	--	--	4.5	--	--	6.0	--	9.0	--	8.5	--	9.5	--
8	--	16.5	--	--	12.0	--	--	3.5	--	--	6.0	--	9.5	--	9.0	--	11.0	--
9	--	--	--	--	12.0	--	--	--	--	--	7.0	--	10.0	--	9.0	--	10.0	--
10	--	--	--	--	13.0	--	--	8.0	--	--	8.0	--	9.5	--	8.5	--	10.0	--
11	--	12.0	--	--	11.0	--	--	4.0	--	--	9.0	--	8.5	--	8.5	--	9.5	--
12	--	15.0	--	--	11.0	--	--	5.0	--	--	10.0	--	9.0	--	8.5	--	--	--
13	--	12.0	--	--	11.5	--	--	5.0	--	--	10.0	--	9.0	--	8.5	--	9.5	--
14	--	15.0	--	--	12.0	--	--	--	--	--	9.0	--	8.5	--	8.5	--	10.0	--
15	--	17.0	--	--	9.5	--	--	--	--	--	9.5	--	8.5	--	8.5	--	11.0	--
16	--	13.5	--	--	10.5	--	--	6.5	--	--	9.5	--	9.0	--	8.5	--	7.5	--
17	--	12.5	--	--	10.5	--	--	8.0	--	--	8.0	--	9.0	--	9.0	--	8.5	--
18	--	14.5	--	--	10.0	--	--	10.0	--	--	8.5	--	9.0	--	8.0	--	--	--
19	--	13.5	--	--	9.0	--	--	10.0	--	--	7.0	--	8.5	--	8.0	--	7.0	--
20	--	14.5	--	--	11.0	--	--	10.0	--	--	7.0	--	8.5	--	8.0	--	8.0	--
21	--	16.5	--	--	11.0	--	--	11.0	--	--	8.0	--	8.0	--	7.5	--	8.5	--
22	--	13.5	--	--	10.5	--	--	10.0	--	--	8.0	--	8.5	--	8.0	--	--	--
23	--	17.0	--	--	10.5	--	--	10.0	--	--	7.5	--	8.5	--	8.5	--	10.5	--
24	--	13.0	--	--	11.5	--	--	9.0	--	--	8.5	--	9.0	--	8.5	--	9.0	--
25	--	16.0	--	--	12.0	--	--	12.0	--	--	8.5	--	9.0	--	9.0	--	11.0	--
26	--	13.5	--	--	12.0	--	--	8.5	--	--	7.0	--	9.0	--	9.0	--	11.0	--
27	--	14.0	--	--	11.5	--	--	8.5	--	--	8.0	--	9.5	--	9.0	--	9.5	--
28	--	10.5	--	--	9.5	--	--	8.5	--	--	8.0	--	9.5	--	9.5	--	9.5	--
29	--	12.5	--	--	12.5	--	--	9.0	--	--	9.0	--	--	--	--	--	9.5	--
30	--	12.0	--	--	11.0	--	--	7.5	--	--	8.0	--	--	--	--	--	9.5	--
31	--	11.0	--	--	--	--	--	7.5	--	--	8.0	--	7.5	--	--	--	8.5	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	10.0	--	7.5	--	--	--
DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	--	10.0	--	--	--	--	--	--	--	--	--	--	22.0	--	19.0	22.5	--	12.5
2	--	9.0	--	--	15.5	--	--	16.0	--	--	--	--	22.5	--	19.0	23.0	--	12.5
3	--	9.0	--	--	--	--	--	--	--	--	19.0	--	23.0	--	16.0	22.0	--	13.5
4	--	14.5	--	--	15.5	--	--	--	--	--	--	--	23.0	--	15.5	22.0	--	13.0
5	--	14.5	--	--	--	--	--	19.5	--	--	--	--	23.0	--	15.5	18.5	--	14.5
6	--	14.5	--	--	17.0	--	--	--	--	--	--	--	20.0	--	15.5	22.5	--	13.5
7	--	14.5	--	--	--	--	--	--	--	--	--	--	18.0	--	15.0	22.5	--	14.5
8	--	14.5	--	--	--	--	--	--	--	--	--	--	17.5	--	15.0	22.5	--	13.0
9	--	14.5	--	--	--	--	--	--	--	--	22.0	--	17.5	--	15.0	22.5	--	13.5
10	--	14.0	--	--	--	--	--	--	--	22.0	--	17.0	20.0	--	14.0	21.0	--	15.0
11	--	16.0	--	--	18.0	--	--	19.5	--	22.0	--	17.0	18.5	--	14.5	18.0	--	14.0
12	--	12.0	--	--	--	--	--	--	--	22.5	--	17.0	17.5	--	14.5	16.0	--	14.0
13	--	12.5	--	--	--	--	--	--	--	22.5	--	17.0	18.5	--	14.5	20.0	--	13.5
14	--	11.0	--	--	19.5	--	--	18.5	--	19.0	--	17.0	22.0	--	15.0	21.5	--	13.5
15	--	13.0	--	--	17.0	--	--	--	--	19.0	--	17.0	18.0	--	14.5	18.0	--	14.0
16	--	11.5	--	--	--	--	--	--	--	21.5	--	17.0	22.0	--	14.5	21.5	--	14.0
17	--	12.0	--	--	--	--	--	19.5	--	19.0	--	17.0	22.0	--	14.5	22.0	--	14.5
18	--	10.0	--	--	19.0	--	--	--	--	19.0	--	17.0	21.5	--	14.5	17.5	--	15.5
19	--	--	--	--	--	--	--	--	--	18.5	--	17.0	21.5	--	14.0	17.5	--	15.0
20	--	13.0	--	--	--	--	--	--	--	18.5	--	17.0	22.0	--	14.5	20.0	--	15.0
21	--	15.0	--	--	--	--	--	19.5	--	22.0	--	16.0	22.0	--	14.5	20.5	--	14.5
22	--	13.0	--	--	--	--	--	--	--	22.0	--	16.0	22.5	--	12.5	17.5	--	14.5
23	--	15.0	--	--	--	--	--	--	--	22.0	--	15.0	22.0	--	14.5	17.0	--	14.5
24	--	--	--	--	15.0	--	--	--	--	22.0	--	16.5	17.5	--	13.5	17.0	--	15.0
25	--	--	--	--	--	--	--	19.5	--	22.5	--	17.0	23.5	--	14.0	19.0	--	14.5
26	--	15.0	--	--	--	--	--	--	--	23.0	--	17.5	22.5	--	13.5	20.5	--	14.0
27	--	--	--	--	--	--	--	--	--	23.0	--	17.5	21.5	--	14.0	20.5	--	13.5
28	--	15.5	--	--	--	--	--	18.0	--	22.0	--	18.0	23.5	--	14.5	20.0	--	13.5
29	--	--	--	--	19.0	--	--	18.5	--	22.5	--	18.0	21.5	--	14.0	18.5	--	14.5
30	--	15.5	--	--	--	--	--	--	--	21.5	--	18.5	22.5	--	14.5	17.5	--	14.0
31	--	--	--	--	--	--	--	--	--	21.0	--	18.5	22.5	--	13.5	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	23.5	--	12.5	23.0	--	12.5

## REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	30	4	.32	29	10	.78	168	15	6.8
2	28	4	.30	66	20	3.6	159	12	5.2
3	25	4	.27	154	202	134	233	70	44
4	24	4	.26	421	837	1030	700	923	1740
5	23	4	.25	332	445	399	580	180	242
6	22	4	.24	197	96	51	610	152	250
7	21	3	.17	304	198	163	520	104	146
8	19	3	.15	239	58	37	440	62	74
9	19	3	.15	194	67	35	360	42	41
10	26	3	.21	280	175	138	310	34	28
11	51	8	1.1	430	314	374	250	28	19
12	98	31	8.2	367	142	141	290	36	28
13	66	7	1.2	292	50	39	280	33	25
14	50	6	.81	300	125	107	240	22	14
15	41	5	.55	280	128	97	250	30	20
16	37	6	.60	260	68	48	1220	642	4560
17	34	4	.37	239	58	37	8040	5020	115000
18	33	5	.45	236	47	30	5190	2540	37000
19	31	4	.33	760	1980	4490	4970	2500	33500
20	31	4	.33	635	550	943	3360	1080	9800
21	28	4	.30	427	154	178	2540	980	6720
22	26	4	.28	447	212	256	6220	3430	64500
23	26	4	.28	357	105	101	5150	2070	29900
24	26	4	.28	295	67	53	5280	2050	31800
25	24	4	.26	251	50	34	2840	950	7280
26	24	4	.26	221	34	20	1940	880	4610
27	22	4	.24	201	32	17	1890	960	4900
28	24	3	.19	202	23	13	1690	770	3510
29	30	3	.24	196	28	15	1320	620	2210
30	29	4	.31	180	26	13	1130	520	1590
31	27	4	.29	--	--	--	950	510	1310
TOTAL	995	--	19.19	8792	--	8997.38	59120	--	360913.0

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	850	310	711	1500	256	1040	1670	514	2450
2	800	275	594	1310	228	806	1460	293	1160
3	730	240	473	1170	167	528	1680	451	2190
4	665	210	377	1100	157	466	1880	360	1830
5	620	184	308	2260	1180	7580	1530	232	958
6	600	158	256	1620	470	2060	1610	275	1220
7	580	120	188	1320	270	962	1370	187	692
8	560	109	165	1140	220	677	1240	176	589
9	533	190	273	1100	220	653	1130	127	387
10	759	443	908	2400	896	6500	1600	443	2310
11	2090	2020	13200	2480	675	4520	2180	440	2540
12	4490	2350	28600	2550	857	5900	1700	275	1260
13	5330	2200	33100	1920	470	2440	1480	196	783
14	2940	960	7620	1790	350	1690	1280	140	484
15	2090	800	4510	1620	310	1360	1150	131	407
16	6410	3120	61600	1410	240	914	1210	248	911
17	5220	1540	21700	1260	198	674	1560	254	1070
18	5710	1750	29100	1140	169	520	1360	75	271
19	5160	1220	17000	1060	151	432	2560	568	5490
20	3580	780	7540	978	132	349	3160	480	4100
21	3680	770	7650	912	111	273	3100	600	5020
22	2720	570	4190	840	101	229	2800	500	3780
23	2130	485	2790	786	91	193	2320	325	2040
24	2130	643	4040	832	110	247	2120	308	1760
25	2760	843	6490	1280	648	2290	2020	290	1580
26	2070	458	2560	1360	480	1830	1850	240	1200
27	1740	362	1700	1430	338	1310	1640	198	877
28	1510	340	1390	1180	232	739	1480	148	591
29	1440	340	1320	--	--	--	1310	120	424
30	1530	394	1670	--	--	--	2040	788	5530
31	1920	565	3050	--	--	--	2720	890	6540
TOTAL	73347	--	265073	39748	--	47182	56190	--	60494

## REDWOOD CREEK BASIN

573

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	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	2740	640	4730	356	18	17	142	3	1.2
2	2260	340	2070	338	17	16	136	3	1.1
3	1880	280	1420	325	13	11	131	3	1.1
4	1640	219	970	361	9	8.8	125	3	1.0
5	1490	192	772	352	10	9.5	120	4	1.3
6	1390	157	589	312	11	9.3	114	3	.92
7	1260	141	480	300	11	8.9	108	3	.87
8	1170	129	408	288	9	7.0	105	3	.85
9	1070	112	324	280	9	6.8	103	4	1.1
10	992	90	241	264	7	5.0	101	4	1.1
11	920	84	209	252	7	4.8	99	6	1.6
12	872	79	186	244	7	4.6	99	5	1.3
13	816	69	152	233	7	4.4	103	3	.83
14	779	62	130	226	10	6.1	101	3	.82
15	723	56	109	219	3	1.8	96	3	.78
16	684	55	102	209	3	1.7	96	3	.78
17	872	110	260	202	3	1.6	117	4	1.3
18	800	98	212	195	4	2.1	125	3	1.0
19	744	89	179	188	4	2.0	105	3	.85
20	660	56	100	188	4	2.0	96	3	.78
21	604	41	67	177	4	1.9	90	3	.73
22	548	39	58	174	4	1.9	85	3	.69
23	514	37	51	170	4	1.8	85	3	.69
24	484	32	42	240	28	18	83	3	.67
25	460	25	31	264	16	11	79	4	.85
26	450	20	24	205	10	5.5	77	4	.83
27	435	19	22	181	5	2.4	72	4	.78
28	420	21	24	167	5	2.3	70	4	.76
29	397	20	21	162	3	1.3	67	2	.36
30	374	19	19	153	3	1.2	65	3	.53
31	--	--	--	150	3	1.2	--	--	--
TOTAL	28448	--	14002	7375	--	178.9	2995	--	27.47

DAY	JULY			AUGUST			SEPTEMBER		
	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	61	3	.49	27	1	.07	17	2	.04
2	60	3	.49	26	1	.07	16	2	.04
3	58	3	.47	25	1	.07	15	2	.04
4	58	3	.47	24	1	.06	15	2	.04
5	56	3	.45	23	1	.06	14	2	.04
6	56	3	.45	23	1	.06	14	2	.04
7	54	3	.44	23	1	.06	14	2	.04
8	53	3	.43	23	1	.06	14	2	.04
9	53	2	.29	23	1	.06	14	2	.04
10	51	2	.28	23	1	.06	14	2	.04
11	50	2	.27	23	1	.06	13	3	.11
12	50	2	.27	22	1	.06	13	2	.07
13	48	2	.26	22	1	.06	13	2	.07
14	47	2	.25	22	1	.06	13	2	.07
15	46	2	.25	21	1	.06	12	2	.06
16	44	2	.24	20	1	.05	12	2	.06
17	43	2	.23	19	1	.05	12	2	.06
18	42	2	.23	19	1	.05	13	2	.07
19	42	1	.11	18	1	.05	33	12	1.1
20	42	1	.11	18	1	.05	167	135	.66
21	40	1	.11	17	1	.05	134	35	.13
22	40	1	.11	17	1	.05	114	12	3.7
23	38	1	.10	17	1	.05	555	157	279
24	37	1	.10	17	1	.05	472	120	153
25	36	1	.10	19	1	.05	420	151	190
26	35	1	.09	20	1	.05	212	38	.22
27	33	1	.09	20	1	.05	139	12	.65
28	32	1	.09	19	2	.10	105	7	2.0
29	30	1	.08	18	2	.10	88	4	.94
30	29	1	.08	17	2	.09	72	3	.54
31	28	1	.08	17	2	.09	--	--	--
TOTAL	1392	--	7.51	642	--	1.91	2754	--	737.22

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

261843

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

747633.55

## REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

			INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE- MENT SEDI- MENT (MG/L)	SUS- PENDE- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	
DATE	TIME	TEMPER- ATURE (DEG C)										
NOV.												
03...	1930	13.0	253	724	495	--	--	--	--	--	--	
04...	1545	13.5	500	1620	2190	19	33	49	61	69	93	
05...	1650	12.0	280	357	270	--	--	--	--	--	--	
07...	1330	11.0	332	255	229	34	54	72	85	94	--	
10...	1305	13.0	304	256	210	--	--	--	--	--	--	
11...	1615	11.0	475	462	593	--	--	--	--	--	--	
16...	1310	10.5	260	51	36	--	--	--	--	--	--	
19...	1145	9.0	910	3010	7400	34	47	64	79	90	95	
DEC.												
04...	1620	7.5	480	558	723	--	--	--	--	--	--	
18...	1330	10.0	4210	1510	17200	20	29	41	55	68	78	
19...	1050	10.0	4810	2240	29100	20	28	38	50	62	76	
19...	1400	10.0	5030	2280	31000	18	25	36	48	60	69	
20...	0750	10.0	3600	866	8420	--	--	--	--	--	69	
21...	2110	11.0	2870	908	7040	17	29	39	48	51	73	
22...	1450	10.0	8190	4220	93300	16	21	36	49	61	71	
23...	1430	10.0	4190	1560	17600	--	--	--	--	--	67	
24...	0955	9.0	5670	2030	31100	15	24	35	45	56	65	
JAN.												
11...	1900	9.0	3020	2500	20400	--	--	--	--	--	73	
12...	1320	10.0	4990	2240	30200	16	25	37	50	62	72	
13...	0850	10.0	5880	2530	40200	16	27	37	52	64	75	
14...	1005	9.0	2990	880	7100	--	--	--	--	--	66	
15...	0730	9.5	2070	838	4680	11	17	24	29	30	42	
16...	1625	9.5	8560	4550	105000	22	27	37	53	67	78	
17...	0730	8.0	5750	1770	27500	17	25	37	50	61	73	
18...	1345	8.5	6630	1990	35600	13	20	32	45	54	69	
19...	1345	7.0	4890	1190	15700	15	23	34	50	54	63	
21...	1000	8.0	3820	735	7580	19	29	42	52	55	65	
22...	0730	--	2800	539	4080	--	--	--	--	--	75	
FEB.												
05...	1620	--	2290	1100	6800	29	42	55	71	82	--	
22...	1435	8.0	840	100	227	--	--	--	--	--	--	
25...	1215	--	1370	754	2790	25	41	57	73	81	--	
MAR.												
01...	1640	--	1920	765	3970	17	31	44	61	75	84	
19...	1835	7.0	3280	1350	12000	12	20	31	45	59	73	
30...	1615	9.5	2630	1140	8100	15	25	38	53	67	80	
APR.												
03...	1415	9.0	1880	244	1240	21	38	52	65	71	--	
DATE		SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.												
03...	99	--	100	--	--	--	--	--	--	--	--	--
04...	--	97	--	100	--	--	--	--	--	--	--	--
05...	77	--	79	--	100	--	--	--	--	--	--	--
07...	98	--	99	--	100	--	--	--	--	--	--	--
10...	98	--	100	--	--	--	--	--	--	--	--	--
11...	92	--	95	--	99	--	100	--	--	--	--	--
16...	99	--	100	--	--	--	--	--	--	--	--	--
19...	--	98	--	100	--	--	--	--	--	--	--	--
DEC.												
04...	97	--	99	--	100	--	--	--	--	--	--	--
18...	--	89	--	99	--	100	--	--	--	--	--	--
19...	--	87	--	98	--	100	--	--	--	--	--	--
19...	--	80	--	94	--	100	--	--	--	--	--	--
20...	--	83	--	99	--	100	--	--	--	--	--	--
21...	--	85	--	96	--	99	--	100	--	--	--	--
22...	--	89	--	100	--	--	--	--	--	--	--	--
23...	--	81	--	99	--	100	--	--	--	--	--	--
24...	--	81	--	98	--	100	--	--	--	--	--	--
JAN.												
11...	--	86	--	95	--	97	--	98	--	100	--	--
12...	--	86	--	99	--	100	--	--	--	--	--	--
13...	--	87	--	99	--	100	--	--	--	--	--	--
14...	--	76	--	94	--	98	--	100	--	--	--	--
15...	--	46	--	60	--	70	--	97	--	100	--	--
16...	--	90	--	99	--	100	--	--	--	--	--	--
17...	--	86	--	99	--	100	--	--	--	--	--	--
18...	--	85	--	99	--	100	--	--	--	--	--	--
19...	--	75	--	90	--	100	--	--	--	--	--	--
21...	--	76	--	93	--	97	--	100	--	--	--	--
22...	--	82	--	97	--	100	--	--	--	--	--	--
FEB.												
05...	88	--	92	--	98	--	99	--	100	--	--	--
22...	74	--	77	--	84	--	94	--	100	--	--	--
25...	88	--	92	--	95	--	96	--	97	--	100	--
MAR.												
01...	--	93	--	98	--	99	--	100	--	--	--	--
19...	--	87	--	94	--	94	--	100	--	--	--	--
30...	--	92	--	96	--	98	--	100	--	--	--	--
APR.												
03...	81	--	85	--	91	--	98	--	100	--	--	--



## KLAMATH RIVER BASIN

575

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CALIF.

LOCATION.--Lat 41°55'41", long 122°26'35", in SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec.17, T.47 N., R.5 W., Siskiyou County, at gaging station on left bank, 0.1 mile downstream from Bogus Creek, 0.6 mile downstream from Iron Gate Dam, and 5.9 miles northeast of Hornbrook.

DRAINAGE AREA.--4,630 sq mi, approximately (not including Lost River and Klamath Lake basins).

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1973.

Water temperatures: October 1962 to September 1973.

EXTREMES, 1972-73:

Water temperatures: Maximum, 21.5°C on several days during July and August; minimum, 2.0°C Dec. 17-21.

Period of record:

Water temperatures: Maximum, 23.0°C Aug. 6, 1967, July 17-19, Aug. 8, 1972; minimum, 0.5°C on many days in 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT.									
10...	0915	1800	--	--	--	--	--	--	--
NOV.									
03...	0830	2300	--	--	14	79	0	65	2.2
DEC.									
13...	1100	2970	--	--	--	--	--	--	--
JAN.									
24...	0830	3170	--	--	--	--	--	--	--
FEB.									
20...	0925	2450	--	--	--	--	--	--	--
MAR.									
13...	1330	3030	450	30	18	82	0	67	3.7
APR.									
11...	1000	1380	--	--	--	--	--	--	--
MAY.									
16...	0755	1050	--	--	--	--	--	--	--
JUNE									
14...	0755	750	--	--	19	96	0	79	4.0
JULY									
02...	1150	745	--	--	--	--	--	--	--
AUG.									
08...	0915	675	--	--	--	--	--	--	--
SEP.									
07...	0700	720	--	--	16	89	0	73	4.1

DATE	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
OCT.									
10...	--	--	--	--	--	--	--	216	7.2
NOV.									
03...	.97	--	--	.16	51	0	.9	165	7.4
DEC.									
13...	--	--	--	--	--	--	--	189	7.3
JAN.									
24...	--	--	--	--	--	--	--	199	7.2
FEB.									
20...	--	--	--	--	--	--	--	185	7.7
MAR.									
13...	1.1	.80	.17	.14	62	0	1.0	208	7.4
APR.									
11...	--	--	--	--	--	--	--	195	8.1
MAY									
16...	--	--	--	--	--	--	--	153	8.0
JUNE									
14...	.12	--	--	.12	69	0	1.0	214	8.0
JULY									
02...	--	--	--	--	--	--	--	219	8.3
AUG.									
08...	--	--	--	--	--	--	--	176	--
SEP.									
07...	.18	--	--	.16	60	0	.9	180	8.1

## KLAMATH RIVER BASIN

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 10...	14.0	3	5.4	--	--	--	--	--	--
NOV. 03...	11.0	3	7.5	--	100	--	--	--	--
DEC. 13...	2.0	6	11.7	--	--	--	--	--	--
JAN. 24...	2.5	8	11.9	--	--	--	--	--	--
FEB. 20...	4.5	3	11.1	--	--	--	--	--	--
MAR. 13...	7.0	3	10.2	0	0	0	0	10	10
APR. 11...	11.0	3	11.8	--	--	--	--	--	--
MAY 16...	18.0	2	9.9	--	--	--	--	--	--
JUNE 14...	18.0	1	9.9	--	0	--	--	--	--
JULY 02...	20.0	2	12.6	--	--	--	--	--	--
AUG. 08...	21.0	3	10.0	--	--	--	--	--	--
SEP. 07...	17.0	1	8.8	--	200	--	--	--	--

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	15.0	11.5	11.0	5.5	5.5	3.5	3.5	3.5	3.5	6.5	6.5
2	15.5	15.0	11.0	11.0	5.5	5.5	3.5	3.5	3.5	3.5	6.5	6.5
3	15.5	15.0	11.0	11.0	5.5	5.5	3.5	3.5	3.5	3.5	7.0	6.5
4	15.5	15.0	11.0	11.0	5.5	5.5	3.5	3.0	3.5	3.5	7.0	7.0
5	15.5	15.5	11.0	11.0	5.5	5.0	3.0	3.0	3.5	3.5	7.0	7.0
6	15.5	15.0	11.0	10.5	5.0	5.0	3.0	3.0	3.5	3.5	7.0	7.0
7	15.0	15.0	10.5	10.5	5.0	5.0	3.0	3.0	4.0	3.5	7.0	7.0
8	15.0	14.5	10.5	10.5	5.0	4.5	3.0	3.0	4.0	4.0	7.5	7.0
9	14.5	14.5	10.5	10.5	4.5	4.5	3.0	3.0	4.0	4.0	7.5	7.5
10	14.5	14.5	10.5	10.0	4.5	4.0	3.0	3.0	4.0	4.0	7.5	7.5
11	14.5	14.5	10.0	10.0	4.0	3.5	3.0	3.0	4.0	4.0	8.0	7.5
12	14.5	14.0	10.0	9.5	3.5	3.0	3.0	3.0	4.0	4.0	7.5	7.5
13	14.0	14.0	9.5	9.0	3.0	2.5	3.0	3.0	4.0	4.0	7.5	7.5
14	14.0	14.0	9.0	9.0	2.5	2.5	3.0	3.0	4.5	4.0	7.5	7.0
15	14.0	14.0	9.0	9.0	3.0	2.5	3.0	3.0	5.0	4.5	7.5	7.5
16	14.0	14.0	9.0	9.0	2.5	2.5	3.0	3.0	5.0	5.0	7.5	7.5
17	14.0	13.5	9.0	8.5	2.5	2.0	3.0	3.0	5.5	5.0	7.5	7.5
18	13.5	13.5	8.5	8.5	2.5	2.0	3.0	3.0	5.5	5.5	7.5	7.5
19	13.5	13.5	8.5	8.5	2.0	2.0	3.0	3.0	5.5	5.5	7.5	7.0
20	13.5	13.5	8.5	8.0	2.0	2.0	3.0	3.0	6.0	5.5	7.5	7.5
21	13.5	13.0	8.0	7.5	2.5	2.0	3.0	3.0	6.0	6.0	7.5	7.5
22	13.0	13.0	7.5	7.5	3.0	2.5	3.0	3.0	6.0	6.0	7.5	7.0
23	13.0	13.0	7.5	7.5	3.0	2.5	3.0	3.0	6.0	6.0	8.0	7.5
24	13.0	13.0	7.5	7.0	3.0	2.5	3.0	3.0	6.0	6.0	8.0	7.5
25	13.0	12.5	7.0	7.0	3.0	3.0	3.5	3.0	6.0	6.0	8.5	7.5
26	12.5	12.5	7.0	7.0	3.0	3.0	3.5	3.5	6.0	6.0	8.5	8.0
27	12.5	12.0	7.0	6.5	3.0	3.0	3.5	3.5	6.5	6.0	8.5	8.5
28	12.0	12.0	6.5	6.5	3.5	3.0	3.5	3.5	6.5	6.5	8.5	8.0
29	12.0	11.5	6.5	6.0	3.5	3.5	3.5	3.5	---	---	8.5	8.0
30	11.5	11.5	6.0	5.5	3.5	3.5	3.5	3.5	---	---	8.0	8.0
31	11.5	11.5	---	---	3.5	3.5	3.5	3.5	---	---	8.0	8.0
MONTH	15.5	11.5	11.5	5.5	5.5	2.0	3.5	3.0	6.5	3.5	8.5	6.5

## 11516530 KLAMATH RIVER BELOW IRON GATE DAM, CALIF.---Continued

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	13.5	13.0	17.5	16.5	19.5	19.0	21.0	20.5	19.5	19.0
2	8.5	8.0	13.0	12.0	17.5	16.5	19.0	19.0	21.0	20.5	19.5	18.5
3	8.5	8.0	13.5	12.5	17.0	16.5	19.5	19.0	21.5	20.5	19.0	18.5
4	8.5	8.0	13.5	13.5	19.5	16.5	19.5	19.0	21.0	20.5	18.5	18.5
5	10.0	8.5	14.0	13.0	19.5	18.5	19.5	19.0	21.5	20.5	18.5	18.0
6	10.0	9.0	14.5	13.5	20.0	18.5	19.5	19.0	21.0	20.5	18.5	18.0
7	10.0	9.5	14.5	14.0	20.5	19.0	20.0	19.5	21.0	21.0	18.5	18.0
8	9.5	9.0	14.5	13.5	20.5	19.5	20.0	19.5	21.0	20.5	18.5	18.0
9	10.0	9.0	14.5	13.0	20.0	20.0	20.0	19.5	21.5	21.0	18.0	18.0
10	11.5	9.5	14.5	14.0	20.0	19.0	21.5	19.5	21.5	20.5	18.0	18.0
11	11.0	10.0	14.0	14.0	20.0	19.0	21.0	20.0	21.0	21.0	19.0	18.0
12	10.0	10.0	14.5	14.0	19.5	19.0	20.5	19.5	21.0	21.0	18.5	18.0
13	11.0	10.0	15.5	14.5	19.5	19.0	20.5	20.0	21.0	20.5	18.5	18.5
14	11.0	10.5	16.0	15.0	19.0	18.5	20.5	20.0	21.0	20.5	18.5	18.0
15	11.5	10.5	16.0	15.5	19.0	16.5	20.5	20.0	21.5	20.5	18.0	18.0
16	11.5	10.5	16.0	15.5	18.0	17.5	21.5	20.0	21.5	21.0	18.0	18.0
17	11.0	10.5	16.5	16.0	17.5	17.5	20.5	20.0	21.0	20.5	18.0	18.0
18	11.0	10.5	18.0	16.0	17.5	17.5	20.5	20.0	21.0	20.5	18.0	18.0
19	11.5	10.5	18.0	16.0	18.0	17.5	20.0	20.0	20.5	19.5	18.0	17.5
20	12.0	11.0	18.0	16.5	18.0	17.5	20.5	20.0	20.0	19.5	17.5	17.0
21	12.0	11.0	16.5	16.0	18.0	17.0	21.0	20.0	20.0	19.5	17.0	17.0
22	12.0	11.5	17.5	16.5	17.5	17.0	21.0	20.0	20.0	20.0	17.0	16.5
23	13.0	11.5	17.0	16.5	18.0	17.5	20.5	20.0	20.0	19.5	16.5	16.5
24	13.0	12.0	16.5	16.0	18.5	17.5	20.5	20.0	20.0	19.5	16.5	16.5
25	13.0	12.0	16.5	15.5	18.5	18.5	21.0	20.0	19.5	19.5	16.5	16.5
26	13.5	12.5	16.0	15.5	18.5	18.5	21.0	20.0	19.5	19.5	16.5	16.0
27	14.0	13.0	17.0	16.0	19.5	18.5	21.5	20.5	19.5	19.5	16.5	16.0
28	14.0	13.0	16.5	16.0	20.5	19.0	21.0	20.5	19.5	19.5	16.5	16.0
29	14.0	13.0	17.0	16.0	20.5	19.0	21.5	20.5	19.5	19.0	16.5	16.0
30	14.0	13.0	17.0	16.5	20.0	19.0	21.5	21.0	19.5	19.5	17.0	16.5
31	---	---	17.5	16.5	---	---	21.5	21.0	19.5	19.0	---	---
MONTH	14.0	8.0	18.0	12.0	20.5	16.5	21.5	19.0	21.5	19.0	19.5	16.0

## KLAMATH RIVER BASIN

11517500 SHASTA RIVER NEAR YREKA, CALIF.

LOCATION.--Lat 41°49'23", long 122°35'40", in SE $\frac{1}{4}$ NE $\frac{1}{4}$  sec.24, T.46 N., R.7 W., Siskiyou County, at gaging station on right bank, 0.5 mile upstream from mouth, and 7 miles north of Yreka.

DRAINAGE AREA.--793 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1958 to September 1971, water years 1972-73 (partial-record station).

Water temperatures: June 1965 to September 1973.

Sediment records: Water years 1955-56, 1958-62 (partial-record station).

EXTREMES, 1972-73:

Water temperatures: Maximum, 30.5°C June 27; minimum, 1.0°C Dec. 8 and sometime during period Dec. 9 to Jan. 5.

Period of record:

Water temperatures: Maximum, 31.5°C July 15, 16, 1972; minimum, freezing point Jan. 30, 31, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Clock stopped Dec. 9 to Jan. 5, 9-11, 21, 22; range in temperature, 1.0°C to 8.5°C, 2.5°C to 3.5°C, and 4.5°C to 6.0°C, respectively.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
MAR. 13...	1405	206	240	--	0	--	--	--	33	--	257	0
SEP. 07...	1115	25	--	60	--	0	42	44	50	3.6	374	24

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
MAR. 13...	211	19	19	.03	.20	.17	.16	--	--	168	0	--
SEP. 07...	347	9.9	37	.02	.60	.18	.17	.53	26.3	287	0	27

DATE	SODIUM AD- SORP- TION RATIO	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
MAR. 13...	1.1	0	400	0	--	0	--	0	--	0	--
SEP. 07...	1.3	--	600	--	0	--	0	--	0	--	0

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHO5)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
NOV. 03...	0900	176	482	8.1	9.0	2	10.8
JAN. 24...	0910	233	500	8.0	4.0	8	11.7
MAR. 13...	1405	206	--	8.2	8.0	1	8.8
MAY 16...	0810	88	584	8.1	18.0	2	8.5
JULY 02...	1225	18	719	8.4	23.0	2	9.5
SEP. 07...	0745	23	710	8.2	15.5	1	10.2
07...	1115	25	675	8.3	18.0	1	10.8

## KLAMATH RIVER BASIN

579

11517500 SHASTA RIVER NEAR YREKA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	14.0	9.0	7.5	6.0	5.0	---	---	6.5	5.0	11.0	9.0
2	19.0	14.5	10.0	8.0	6.0	5.0	---	---	7.0	6.0	11.0	7.5
3	19.0	14.5	10.5	9.0	6.0	5.0	---	---	8.0	6.5	10.0	8.5
4	18.5	14.5	11.0	10.0	5.0	3.5	---	---	7.5	6.5	9.5	8.0
5	17.0	13.5	10.5	9.0	3.5	2.0	---	---	8.5	6.5	10.0	7.5
6	16.5	12.5	9.5	8.5	4.0	2.5	4.0	3.0	9.0	7.5	11.0	8.5
7	17.5	13.0	9.5	9.0	3.0	2.0	3.5	2.0	9.5	8.5	10.5	8.0
8	16.5	13.5	10.0	8.0	2.0	1.0	3.0	2.5	9.5	8.0	11.5	8.0
9	16.5	14.5	9.5	8.0	---	---	---	---	9.0	8.0	11.0	9.5
10	16.0	14.0	9.0	7.5	---	---	---	---	9.0	7.5	12.0	9.5
11	15.5	14.0	9.0	8.0	---	---	---	---	8.5	7.0	12.0	8.5
12	14.5	12.5	9.5	8.0	---	---	4.5	3.5	9.0	7.0	9.5	8.0
13	15.0	12.5	9.0	8.0	---	---	6.0	4.5	8.5	6.0	10.0	7.5
14	14.5	12.5	9.0	7.5	---	---	7.0	5.5	8.5	7.5	11.5	7.5
15	14.5	12.0	8.0	6.5	---	---	8.5	7.0	10.0	7.5	12.5	8.0
16	15.0	12.0	8.5	7.0	---	---	8.0	7.0	10.0	7.0	11.0	9.5
17	14.5	12.0	8.0	6.5	---	---	7.0	6.5	10.0	7.5	10.0	8.5
18	15.0	12.5	9.0	7.0	---	---	7.5	6.5	9.5	6.5	11.5	7.5
19	14.5	12.0	9.5	8.0	---	---	7.0	6.0	9.0	6.0	9.5	9.0
20	14.0	11.5	9.5	8.5	---	---	6.5	5.0	9.5	6.5	10.0	8.5
21	14.0	11.0	8.5	7.5	---	---	---	---	10.0	7.0	10.0	8.5
22	14.5	11.5	8.5	7.0	---	---	---	---	10.5	7.5	12.0	8.0
23	14.5	12.0	8.0	6.5	---	---	5.5	4.0	10.5	8.0	13.5	8.5
24	13.0	11.0	7.0	6.0	---	---	5.5	4.5	9.5	8.5	14.0	9.5
25	12.5	10.0	8.0	6.5	---	---	5.5	4.5	11.0	8.0	15.5	10.5
26	12.0	10.0	9.5	7.5	---	---	5.0	3.5	9.5	8.5	14.5	10.5
27	11.5	9.0	8.0	7.0	---	---	5.5	4.0	9.0	8.0	12.0	9.5
28	10.0	8.5	8.5	7.5	---	---	6.0	4.0	11.0	8.5	12.0	8.5
29	9.5	8.0	7.5	6.5	---	---	6.0	5.5	---	---	10.0	8.0
30	9.0	7.0	7.0	5.5	---	---	6.5	5.5	---	---	11.0	8.5
31	8.0	6.5	---	---	---	---	7.0	5.5	---	---	11.0	7.0
MONTH	19.0	6.5	11.0	5.5	---	---	---	---	11.0	5.0	15.5	7.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	7.5	19.5	13.0	23.0	15.5	26.0	16.5	29.0	21.5	20.5	14.5
2	13.5	7.0	18.5	14.5	23.0	15.5	27.0	18.5	29.5	21.5	21.5	14.5
3	14.5	8.5	19.5	14.0	24.0	16.0	28.5	19.5	29.0	21.5	22.0	15.5
4	16.0	10.0	17.5	13.5	25.5	16.0	28.5	20.5	28.5	21.5	22.5	16.5
5	17.0	11.5	20.0	12.5	26.5	18.0	28.5	20.5	28.0	21.0	23.5	16.5
6	17.5	12.0	20.0	14.0	27.0	19.0	27.5	19.0	27.5	20.0	21.5	15.5
7	16.0	11.0	20.5	14.0	27.0	18.5	27.5	19.0	27.5	20.5	21.0	16.5
8	16.5	11.0	21.0	14.0	27.5	18.5	28.0	19.5	28.0	20.0	20.5	14.5
9	16.5	13.0	20.5	14.0	25.0	18.5	29.0	20.0	27.5	21.5	22.0	15.5
10	18.5	12.0	21.5	13.5	25.0	16.5	28.5	21.0	27.5	20.5	23.0	16.5
11	17.5	12.5	23.0	14.5	26.5	17.5	28.0	19.5	27.5	20.0	23.0	17.5
12	17.0	13.5	24.0	16.0	25.0	18.0	27.0	20.5	27.5	21.0	23.0	17.0
13	15.5	12.5	25.5	17.5	23.5	16.5	28.0	20.0	28.0	20.5	22.5	17.0
14	17.0	11.5	25.0	19.0	22.5	15.5	29.5	21.0	28.0	20.5	21.5	16.0
15	17.0	12.5	25.0	19.0	23.5	15.0	30.0	21.5	28.0	21.0	21.0	16.0
16	15.5	13.0	26.5	19.5	20.5	16.0	30.0	22.5	26.5	20.5	21.0	16.0
17	15.0	11.0	26.5	20.0	22.0	13.5	29.0	22.5	26.0	19.0	21.0	16.0
18	15.0	10.0	26.5	20.0	23.5	14.0	28.5	22.0	25.5	18.5	20.5	16.5
19	14.0	9.5	25.0	19.0	25.5	16.0	26.5	21.5	24.5	18.0	18.5	16.5
20	16.0	9.5	23.5	17.0	27.5	18.0	25.5	21.0	24.5	18.0	17.5	15.5
21	17.5	10.0	24.0	16.0	26.5	20.5	25.5	20.0	24.5	18.0	19.0	15.0
22	18.5	12.5	24.5	17.0	25.5	20.0	25.0	18.5	23.5	17.0	16.5	15.5
23	19.0	12.5	20.5	17.5	23.0	19.0	26.5	18.0	21.5	16.5	18.5	15.5
24	19.5	12.5	19.0	15.0	25.0	17.5	27.0	18.5	20.5	16.5	18.0	15.5
25	21.0	13.0	20.5	13.5	28.5	19.0	28.0	19.5	20.5	15.5	18.5	14.5
26	22.0	13.5	21.0	13.5	29.5	21.0	29.0	21.0	23.0	16.0	18.5	14.5
27	21.0	14.0	24.0	15.0	30.5	22.0	30.0	22.0	23.0	16.5	19.0	14.5
28	20.0	13.0	25.0	16.0	29.0	21.5	25.0	21.5	23.5	16.5	18.5	14.5
29	18.5	12.5	25.5	17.0	27.5	20.0	28.5	21.5	24.5	17.5	19.0	15.0
30	19.0	12.0	23.0	19.5	25.0	18.0	25.0	21.5	23.0	18.0	19.0	16.0
31	---	---	24.0	17.0	---	---	25.0	21.5	22.0	17.0	---	---
MONTH	22.0	7.0	26.5	12.5	30.5	13.5	30.0	16.5	29.5	15.5	23.5	14.5

## KLAMATH RIVER BASIN

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CALIF.

LOCATION.--Lat 41°51'14", long 123°13'52", in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.3, T.46 N., R.12 W, Siskiyou County, Klamath National Forest, temperature recorder at gaging station on left bank, 0.4 mile upstream from Bittenbender Creek, 1.4 miles downstream from Grider Creek, and 2.2 miles west of Seiad Valley.

DRAINAGE AREA.--6,940 sq mi, approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--Chemical analyses: December 1958 to September 1966.

Water temperatures: October 1963 to September 1973.

Sediment records: Water years 1955-56 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 29.0°C Aug. 10, 11, 14; minimum, 0.5°C Dec. 11, 12.

Period of record:

Water temperatures: Maximum, 29.5°C July 26, 1970; minimum (1963-64, 1966-73), 0.5°C on several days in 1967, 1968, and 1971-72.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	15.5	10.0	9.5	5.5	5.0	3.0	3.0	3.5	3.0	8.0	7.5
2	17.5	15.5	12.0	10.0	5.5	5.5	3.5	3.0	3.5	3.5	7.5	7.0
3	17.5	15.5	11.5	11.0	5.5	5.5	3.5	3.5	4.5	3.5	7.0	7.0
4	17.5	15.5	11.5	11.0	5.5	4.0	4.0	3.0	4.5	4.5	7.5	7.0
5	17.0	15.0	11.0	10.0	4.0	3.0	3.5	3.0	5.0	4.5	7.5	7.0
6	16.0	14.0	11.0	10.0	3.5	3.0	4.0	3.5	5.5	5.0	8.5	7.5
7	16.5	14.0	10.5	10.0	3.5	3.0	3.5	3.0	6.0	5.5	8.0	7.5
8	16.5	14.5	10.5	10.0	3.0	2.0	3.0	2.5	6.0	5.5	8.5	7.5
9	15.5	14.5	10.5	10.0	2.0	1.5	4.0	3.0	6.0	6.0	9.0	8.5
10	15.5	15.0	10.0	10.0	1.5	1.0	4.0	4.0	6.0	5.5	9.5	8.5
11	15.0	14.5	10.0	10.0	1.0	0.5	4.5	4.0	5.5	5.0	8.5	7.5
12	15.5	13.5	10.0	9.5	1.0	0.5	5.0	4.5	6.0	5.0	8.0	7.0
13	15.0	13.5	10.0	9.5	1.5	1.0	5.5	5.0	5.5	4.5	8.0	7.0
14	15.0	14.0	9.5	9.0	1.5	1.0	5.5	4.5	5.5	5.0	8.0	7.0
15	14.5	13.5	9.0	9.0	1.5	1.5	4.5	4.0	6.0	5.0	8.5	7.0
16	14.5	13.0	9.0	8.5	2.5	1.5	5.0	4.5	6.0	5.0	8.5	7.5
17	14.5	13.0	8.5	8.0	2.5	2.5	4.5	4.5	6.0	5.0	7.5	6.5
18	15.0	13.5	8.5	8.0	3.0	2.5	4.5	4.5	6.0	5.0	8.0	6.5
19	14.5	13.0	8.5	8.0	4.0	3.0	4.5	3.5	6.0	4.5	7.5	6.5
20	14.0	12.5	8.0	7.5	4.5	4.0	3.5	3.5	6.5	5.0	7.5	6.5
21	14.0	12.0	8.0	7.5	5.5	4.5	4.0	3.5	7.5	5.5	7.0	6.0
22	14.5	13.0	8.0	7.5	5.5	5.5	4.5	4.0	7.5	6.0	8.0	6.0
23	14.0	12.5	7.5	7.0	5.5	5.0	4.0	3.5	7.5	6.5	9.0	6.5
24	13.0	12.0	7.0	6.5	5.0	4.5	3.5	3.5	8.0	7.0	9.5	7.0
25	12.5	11.0	7.0	6.5	4.5	4.0	4.0	3.5	8.0	7.0	11.0	8.0
26	12.5	11.0	8.0	7.0	4.0	4.0	4.0	3.0	7.5	7.0	10.5	8.0
27	11.5	10.0	7.5	6.5	4.0	4.0	3.5	3.0	7.5	7.0	9.5	8.0
28	10.5	10.0	6.5	6.5	4.0	3.5	3.5	3.0	8.0	7.0	9.5	7.5
29	10.5	9.5	6.5	6.0	4.0	3.5	4.5	3.5	---	---	8.0	6.5
30	9.5	8.5	6.0	5.5	3.5	3.5	4.0	4.0	---	---	8.5	7.0
31	9.5	8.0	---	---	3.5	3.0	4.0	3.5	---	---	8.5	7.0
MONTH	17.5	8.0	12.0	5.5	5.5	0.5	5.5	2.5	8.0	3.0	11.0	6.0
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	6.5	13.5	10.5	18.5	16.0	21.5	16.0	26.5	21.0	21.0	15.0
2	9.5	6.5	14.0	11.0	18.5	15.5	22.0	16.5	27.0	21.5	22.5	14.5
3	10.5	7.0	13.0	11.0	19.0	16.0	23.0	17.5	27.0	21.5	23.5	15.5
4	11.5	8.0	13.0	11.0	20.0	16.0	24.5	18.5	26.5	21.0	25.0	17.0
5	12.5	9.0	13.5	10.5	21.0	17.5	24.0	18.5	26.0	21.0	23.0	17.5
6	13.0	10.0	14.5	12.0	22.0	18.0	23.0	18.0	25.0	20.0	24.0	16.0
7	12.5	10.0	14.5	12.5	22.0	19.0	23.5	18.0	25.0	20.0	21.0	16.5
8	12.5	9.5	15.0	12.5	22.5	18.5	23.5	18.0	27.0	17.0	22.5	15.0
9	13.0	10.0	14.0	12.0	21.5	18.5	24.5	18.5	26.5	19.0	24.0	16.0
10	13.5	10.5	14.5	11.0	21.0	17.0	24.5	19.0	29.0	18.5	26.0	16.5
11	13.5	11.0	15.5	12.0	21.0	17.5	24.0	19.5	29.0	18.5	26.0	18.0
12	13.0	11.0	16.5	13.0	19.5	17.5	24.5	20.0	28.0	19.0	25.5	18.0
13	11.5	10.0	17.0	14.5	19.5	16.5	25.5	20.0	28.5	19.0	22.5	17.0
14	11.5	9.5	17.5	15.0	18.5	15.0	26.5	20.5	29.0	19.0	23.0	17.5
15	12.5	10.0	17.0	14.5	18.5	15.0	26.5	21.0	27.0	20.0	22.0	16.5
16	11.5	10.5	17.5	15.0	18.0	15.0	26.5	21.5	25.5	18.0	21.0	15.5
17	10.5	9.0	18.5	15.5	17.0	14.5	26.0	21.0	26.0	17.5	21.5	16.0
18	9.5	8.0	18.5	16.0	18.5	13.5	25.5	21.0	24.5	17.0	21.0	17.5
19	11.0	8.0	17.5	15.5	20.5	15.5	24.0	20.5	24.5	16.5	18.5	17.0
20	11.5	8.5	17.0	14.5	22.5	17.5	24.0	19.5	24.5	15.5	19.0	17.0
21	12.5	9.5	17.0	14.0	23.0	19.5	24.5	19.5	22.5	15.5	19.0	16.5
22	14.0	10.5	18.0	15.0	21.5	19.0	22.5	18.5	22.0	15.5	18.0	17.0
23	14.0	11.0	17.0	15.5	20.5	17.5	23.5	18.5	21.5	14.5	18.5	17.0
24	14.0	11.0	15.5	14.0	20.5	16.5	24.0	18.5	19.0	15.5	17.5	17.0
25	14.5	11.5	15.0	12.5	22.0	18.5	25.5	19.5	23.0	14.5	18.5	16.5
26	15.0	12.0	15.5	13.0	24.5	19.5	26.0	20.5	22.5	15.5	17.5	15.0
27	14.5	12.0	18.0	14.5	25.0	20.0	27.5	21.5	22.5	16.5	18.5	15.0
28	13.0	11.0	19.0	15.5	25.0	20.5	27.0	21.5	23.5	17.0	18.5	15.5
29	12.5	10.0	20.0	16.5	24.0	19.0	26.5	21.5	24.5	17.5	19.0	16.0
30	13.0	10.0	20.0	18.5	22.0	17.5	26.5	22.0	24.0	19.0	19.5	16.0
31	---	---	19.5	17.0	---	---	26.0	21.5	21.0	17.5	---	---
MONTH	15.0	6.5	20.0	10.5	25.0	13.5	27.5	16.0	29.0	14.5	26.0	14.5

## 11522500. SALMON RIVER AT SOMES BAR, CALIF.

LOCATION.--Lat 41°22'40", long 123°28'35", in NE¼ sec.3, T.11 N., R.6 E., Siskiyou County, Klamath National Forest, temperature recorder at gaging station on left bank, at Somes Bar, 1.0 mile upstream from mouth.

DRAINAGE AREA.--751 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1958 to September 1964.

Water temperatures: October 1965 to September 1973.

Sediment records: Water years 1955-56 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 25.5°C July 14, 15, 27; minimum, freezing point Dec. 12-17.

Period of record:

Water temperatures: Maximum (1965-66, 1967-73), 32.0°C Sept. 4, 5, 1966; minimum, freezing point on several days in 1967 and 1972.

REMARKS.--Recorder stopped Oct. 1-3, Jan. 10-30.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	9.0	8.0	4.5	4.0	3.0	2.0	5.5	5.0	9.0	8.0
2	---	---	10.5	9.0	5.0	4.0	3.0	2.0	6.0	5.0	8.0	6.5
3	---	---	10.5	10.0	5.0	5.0	3.5	3.0	6.5	6.0	7.0	6.5
4	17.5	15.0	11.0	10.5	5.5	4.0	3.5	2.5	7.0	6.5	7.5	6.5
5	17.0	15.0	11.0	10.0	4.0	1.5	2.5	2.0	7.5	6.5	8.0	6.5
6	16.5	14.0	10.0	9.0	2.0	1.5	3.0	2.0	8.0	7.5	8.5	7.5
7	16.0	14.0	9.5	9.0	2.0	1.5	2.5	1.5	8.0	7.5	7.5	7.0
8	15.5	14.0	10.0	9.5	1.5	0.5	1.5	1.0	8.5	7.5	8.5	7.5
9	15.5	14.5	10.0	9.0	1.0	0.5	2.5	1.5	8.5	8.0	9.0	8.0
10	15.5	15.0	9.5	9.0	1.0	0.5	---	---	8.5	7.0	9.5	8.0
11	15.0	14.0	10.0	9.0	1.5	1.0	---	---	7.5	6.5	8.5	7.5
12	14.5	13.5	9.5	9.0	1.0	0.0	---	---	7.5	7.0	7.5	6.5
13	15.0	13.5	9.5	9.0	0.5	0.0	---	---	7.5	6.5	7.5	6.5
14	15.0	13.5	9.5	9.0	0.5	0.0	---	---	7.5	7.0	7.5	6.0
15	14.5	13.5	9.0	7.5	0.5	0.0	---	---	7.5	7.0	8.0	6.0
16	14.0	13.0	8.0	7.0	0.5	0.0	---	---	7.0	6.0	8.0	7.0
17	14.5	13.0	7.5	6.5	3.5	0.0	---	---	7.5	6.5	7.5	6.5
18	14.5	13.0	7.0	6.5	5.0	3.5	---	---	7.0	5.5	8.0	6.0
19	14.0	12.5	7.0	6.5	5.0	4.5	---	---	6.0	5.0	8.0	5.5
20	13.5	12.5	7.0	6.5	6.5	5.0	---	---	6.5	5.0	7.0	5.5
21	13.0	12.0	7.5	7.0	7.5	6.0	---	---	6.5	5.5	7.0	6.5
22	14.0	12.0	7.5	7.0	7.5	6.5	---	---	6.5	5.5	8.5	6.0
23	14.0	12.5	7.0	6.5	7.0	6.5	---	---	7.5	6.5	8.5	6.5
24	13.0	11.5	7.0	6.0	7.0	6.0	---	---	8.5	7.5	8.5	6.5
25	12.0	11.0	6.5	6.0	6.0	5.5	---	---	8.5	7.5	10.0	8.0
26	12.0	10.5	6.5	6.0	5.5	5.0	---	---	8.5	8.0	10.0	8.5
27	11.0	9.5	7.0	6.5	5.5	5.0	---	---	8.5	7.5	9.5	7.5
28	10.0	9.0	6.5	6.0	5.5	4.5	---	---	9.0	8.0	8.5	7.0
29	10.0	8.5	6.0	5.5	4.5	3.5	---	---	---	---	8.0	6.5
30	9.0	7.5	5.5	4.5	3.5	3.0	---	---	---	---	8.0	7.0
31	8.5	7.5	---	---	3.5	3.0	6.0	5.5	---	---	8.0	6.5
MONTH	17.5	7.5	11.0	4.5	7.5	0.0	---	---	9.0	5.0	10.0	5.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	6.5	11.0	8.5	16.0	14.0	20.5	18.0	23.5	20.5	21.5	17.5
2	8.5	6.5	11.5	9.0	16.5	14.0	20.5	18.0	24.0	21.0	21.0	17.0
3	9.0	6.5	11.5	9.0	17.0	14.5	21.5	18.5	24.5	21.5	21.0	17.5
4	10.0	7.5	11.0	9.5	17.0	15.0	22.5	19.0	25.0	21.5	21.5	17.5
5	11.0	8.5	11.5	8.5	18.5	15.5	22.5	22.0	25.0	23.0	21.5	18.0
6	11.5	9.5	12.5	10.0	18.5	16.5	22.0	19.5	25.0	24.0	21.0	17.5
7	11.0	9.0	12.0	10.5	19.0	16.5	21.5	19.0	24.5	23.0	21.0	18.0
8	11.0	9.0	12.5	10.5	19.5	17.0	22.0	19.0	24.0	21.0	21.0	17.0
9	11.5	10.0	12.5	10.0	19.0	17.0	22.5	19.5	24.0	21.0	21.5	17.0
10	11.5	9.5	12.5	10.0	19.0	17.0	23.0	20.0	24.5	21.0	21.5	18.0
11	11.0	9.0	13.0	10.5	19.0	17.0	23.0	20.0	24.5	21.0	21.5	18.0
12	10.5	9.0	13.5	11.0	17.5	17.0	25.0	20.5	25.0	21.5	21.5	18.0
13	10.0	9.0	14.0	11.5	18.0	15.5	25.0	22.0	25.0	21.5	21.0	18.0
14	10.5	8.5	14.0	11.5	17.0	15.0	25.5	22.0	25.0	21.5	21.0	17.5
15	10.5	9.0	14.0	11.5	17.0	15.0	25.5	22.5	24.5	21.5	20.5	17.5
16	10.5	9.0	14.5	11.0	16.5	15.0	25.0	22.5	24.0	21.0	20.0	17.0
17	9.0	8.5	15.0	12.0	16.0	14.0	25.0	22.5	23.5	20.0	20.5	17.0
18	8.5	6.5	15.0	12.5	17.0	14.0	24.5	22.0	23.0	20.0	19.5	17.5
19	9.5	6.5	14.0	12.0	19.0	15.5	24.5	21.5	22.5	19.0	18.5	17.5
20	9.5	7.0	14.0	12.0	20.0	17.0	23.5	21.0	22.0	19.0	18.0	17.0
21	10.5	7.5	14.5	12.0	20.0	18.5	23.5	21.0	22.0	18.5	18.5	16.5
22	11.5	9.0	15.0	12.5	20.0	18.0	22.0	20.0	21.0	18.0	17.5	16.5
23	11.5	9.5	15.0	13.0	18.0	17.0	22.0	19.0	21.0	17.5	17.5	15.5
24	11.5	9.5	13.5	12.0	20.0	17.0	23.0	19.5	19.5	17.5	17.0	16.0
25	12.0	9.5	13.0	10.5	21.5	18.5	23.5	20.0	21.0	17.0	17.0	15.5
26	12.0	9.5	12.5	10.5	22.5	20.0	24.5	21.0	21.0	17.5	17.0	15.0
27	11.5	9.5	15.0	12.0	23.0	20.0	25.5	22.0	21.5	18.0	17.5	15.0
28	11.5	8.5	16.0	13.5	23.0	21.0	24.5	22.0	22.0	18.0	18.0	15.5
29	10.5	8.0	16.5	14.5	22.5	20.0	23.5	22.0	22.5	18.5	18.0	15.5
30	10.0	7.5	16.5	15.5	21.0	19.0	24.5	21.5	21.5	19.0	18.0	16.0
31	---	---	17.5	15.0	---	---	23.0	21.0	22.0	18.5	---	---
MONTH	12.0	6.5	17.5	8.5	23.0	14.0	25.5	18.0	25.0	17.0	21.5	15.0

## KLAMATH RIVER BASIN

11523000 KLAMATH RIVER AT ORLEANS, CALIF.

LOCATION.--Lat 41°18'13", long 123°32'00", in SW¼NE¼ sec.31, T.11 N., R.6 E., Humboldt County, Six Rivers National Forest, at gaging station at Orleans, 25 ft upstream from highway bridge, and 0.2 mile downstream from Cheenitch Creek.

DRAINAGE AREA.--8,475 sq mi (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1973.

Water temperatures: October 1965 to September 1973.

Sediment records: Water years 1955-59 (partial-record station), January 1967 to September 1973.

Prior to October 1966, published as "at Somesbar".

## EXTREMES.--1972-73:

Water temperatures: Maximum, 29.5°C July 27; minimum, 1.5°C Dec. 12.

Sediment concentrations: Maximum daily, 440 mg/l Dec. 17; minimum daily, 2 mg/l on several days during August.

Sediment discharge: Maximum daily, 33,200 tons Dec. 22; minimum daily, 7.1 tons Aug. 14, 15.

## Period of record:

Water temperatures: Maximum (1965-69, 1971-73), 29.5°C July 27, 1973; minimum (1965-66, 1967-73), freezing point Dec. 22, 23, 1968.

Sediment concentrations (1967-73): Maximum daily, 3,610 mg/l Jan. 22, 1972; minimum daily, 1 mg/l Aug. 25-27, 1972.

Sediment discharge (1967-73): Maximum daily, 1,370,000 tons Jan. 22, 1972; minimum daily, 4.7 tons Aug. 27, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record July 12-26, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA+MG) (MG/L)
OCT.								
02...	1100	2840	--	--	--	--	--	--
NOV.								
13...	1145	4510	--	--	--	--	--	--
DEC.								
04...	1130	5320	--	--	--	--	--	--
JAN.								
16...	1145	32000	4.6	52	0	43	5.6	50
FEB.								
05...	1100	10300	--	--	--	--	--	--
MAR.								
05...	1145	9880	--	--	--	--	--	--
APR.								
06...	1115	6570	--	--	--	--	--	--
MAY								
22...	1045	7020	--	--	--	--	--	--
JUNE								
19...	1050	2750	7.2	89	0	73	2.9	70
JULY								
09...	1030	1830	--	--	--	--	--	--
AUG.								
06...	1300	1420	--	--	--	--	--	--
SEP.								
11...	1105	1280	--	--	--	--	--	--

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT.								
02...	--	--	232	7.9	16.0	1	10.0	--
NOV.								
13...	--	--	178	7.6	9.5	5	11.5	--
DEC.								
04...	--	--	179	7.8	6.0	5	12.3	--
JAN.								
16...	7	.3	105	7.4	6.0	120	12.5	0
FEB.								
05...	--	--	158	7.8	6.0	15	12.7	--
MAR.								
05...	--	--	161	7.4	7.5	6	11.3	--
APR.								
02...	--	--	159	7.8	7.0	2	11.5	--
MAY								
22...	--	--	106	7.4	14.5	3	10.4	--
JUNE								
19...	0	.4	171	7.8	17.0	1	9.8	0
JULY								
09...	--	--	190	8.0	21.0	2	10.0	--
AUG.								
06...	--	--	193	8.1	23.5	1	10.1	--
SEP.								
11...	--	--	195	8.1	19.5	1	11.4	--



## KLAMATH RIVER BASIN

583

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT			NOV			DEC			JAN			FEB			MAR		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	18.5	--	15.5	9.0	--	8.0	7.5	--	7.0	4.5	--	4.0	5.5	--	5.0	7.5	--	7.0
2	18.0	--	16.0	10.5	--	9.0	7.5	--	7.0	4.0	--	4.0	5.5	--	5.0	7.0	--	7.0
3	17.5	--	15.0	12.0	--	10.0	7.5	--	7.0	4.0	--	4.0	5.5	--	5.0	7.0	--	6.5
4	17.5	--	15.0	12.0	--	11.0	7.0	--	5.5	4.0	--	3.5	6.0	--	5.5	7.0	--	6.5
5	17.5	--	15.0	11.5	--	10.5	5.5	--	2.5	3.5	--	3.5	6.0	--	6.0	7.5	--	6.5
6	16.5	--	13.5	10.5	--	10.0	2.5	--	2.5	3.5	--	3.0	6.5	--	6.0	7.5	--	6.5
7	16.0	--	13.5	10.0	--	9.5	4.0	--	2.5	3.0	--	3.0	6.5	--	6.0	7.5	--	7.0
8	15.5	--	14.0	10.5	--	10.0	5.0	--	3.5	3.0	--	2.5	6.5	--	6.0	7.5	--	7.0
9	15.5	--	14.5	10.5	--	10.0	4.5	--	3.0	3.5	--	3.0	7.0	--	6.5	8.0	--	7.5
10	15.0	--	14.5	10.0	--	9.5	3.5	--	2.5	4.0	--	3.0	7.0	--	6.0	8.5	--	8.0
11	15.0	--	13.5	10.5	--	9.5	3.5	--	2.5	5.0	--	3.5	6.0	--	6.0	8.0	--	7.5
12	14.5	--	13.5	10.0	--	9.5	3.0	--	1.5	6.5	--	5.0	6.5	--	6.0	7.5	--	7.0
13	15.0	--	13.5	9.5	--	9.0	3.0	--	2.0	6.5	--	6.0	6.5	--	6.5	7.0	--	7.0
14	15.5	--	14.5	10.5	--	9.0	2.5	--	2.0	6.5	--	6.5	6.5	--	6.5	7.0	--	6.5
15	15.0	--	14.0	10.0	--	9.0	2.5	--	2.0	6.5	--	6.5	6.5	--	6.5	7.5	--	6.5
16	14.5	--	13.5	10.0	--	9.0	2.0	--	2.0	6.5	--	6.5	6.5	--	6.0	7.5	--	7.0
17	15.0	--	13.5	9.0	--	8.5	4.0	--	2.0	6.5	--	6.0	6.5	--	6.0	7.0	--	6.5
18	15.0	--	13.5	9.0	--	8.0	5.0	--	4.0	6.0	--	5.5	6.0	--	5.5	6.5	--	6.0
19	14.5	--	13.0	8.5	--	8.0	6.0	--	5.0	5.5	--	5.0	5.5	--	5.0	6.5	--	5.0
20	14.5	--	13.0	9.0	--	8.5	6.0	--	6.0	5.0	--	4.0	5.5	--	5.0	5.5	--	5.0
21	14.0	--	12.5	9.0	--	8.5	7.0	--	5.5	4.5	--	3.5	6.0	--	5.0	5.5	--	5.0
22	14.5	--	13.0	9.5	--	8.5	7.5	--	7.0	4.5	--	4.0	5.5	--	5.0	6.0	--	5.0
23	14.5	--	13.0	9.0	--	8.5	7.5	--	7.5	4.5	--	4.5	6.0	--	5.5	6.5	--	5.5
24	14.0	--	12.0	8.5	--	8.5	7.5	--	7.5	4.5	--	4.5	6.5	--	6.0	7.5	--	6.0
25	12.5	--	11.0	8.5	--	8.0	7.5	--	6.5	5.0	--	4.5	7.0	--	6.5	8.0	--	7.0
26	12.5	--	10.5	9.0	--	8.5	7.5	--	6.0	5.0	--	4.5	7.5	--	7.0	8.5	--	7.5
27	11.5	--	9.5	9.0	--	8.5	6.0	--	6.0	4.5	--	4.5	7.0	--	7.0	8.5	--	7.5
28	10.0	--	9.5	9.0	--	8.0	6.0	--	5.5	4.5	--	4.5	7.5	--	7.0	8.0	--	7.0
29	10.5	--	8.5	8.5	--	8.5	5.5	--	5.0	5.0	--	4.5	--	--	--	7.0	--	6.5
30	9.5	--	8.0	8.5	--	7.5	5.0	--	4.5	5.5	--	5.0	--	--	--	7.0	--	7.0
31	8.5	--	7.5	--	--	--	4.5	--	4.5	5.5	--	5.0	--	--	--	7.0	--	6.5
MONTH	18.5	--	7.5	12.0	--	7.5	7.5	--	1.5	6.5	--	2.5	7.5	--	5.0	8.5	--	5.0
DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	7.0	--	6.5	11.5	--	10.0	19.0	--	17.5	24.0	--	16.0	28.0	--	21.0	22.5	--	18.0
2	7.5	--	6.5	12.0	--	11.0	19.0	--	17.0	24.5	--	16.0	28.0	--	22.0	23.0	--	17.0
3	9.5	--	7.0	12.5	--	11.0	19.0	--	17.0	25.0	--	16.5	28.5	--	22.0	24.0	--	17.0
4	9.0	--	8.0	12.0	--	11.0	19.5	--	17.5	25.5	--	18.0	28.0	--	22.0	23.5	--	18.0
5	10.0	--	8.5	12.5	--	11.0	20.0	--	18.0	25.5	--	19.5	28.0	--	22.0	22.5	--	18.5
6	11.0	--	9.5	12.5	--	11.5	20.5	--	18.5	24.5	--	17.0	27.0	--	22.0	22.5	--	17.5
7	10.5	--	9.5	13.0	--	12.0	21.0	--	19.0	24.5	--	16.5	27.5	--	21.5	22.0	--	18.0
8	10.5	--	9.5	13.5	--	12.0	21.5	--	19.5	25.5	--	17.0	27.5	--	21.5	22.5	--	18.0
9	11.0	--	9.5	13.5	--	12.5	21.5	--	19.5	26.5	--	17.5	26.5	--	21.5	24.0	--	17.5
10	11.0	--	10.0	13.5	--	12.0	21.5	--	19.5	26.0	--	18.5	27.0	--	21.0	24.0	--	18.0
11	11.5	--	10.5	14.0	--	12.0	21.5	--	18.5	26.0	--	18.5	27.0	--	21.0	23.5	--	18.0
12	11.0	--	10.5	14.5	--	12.5	20.5	--	18.5	--	26.0	--	27.0	--	21.0	24.0	--	18.0
13	10.5	--	10.0	15.0	--	13.5	19.0	--	17.5	--	23.5	--	27.5	--	21.0	22.0	--	18.0
14	10.5	--	10.0	15.5	--	14.0	19.5	--	16.0	--	--	--	28.0	--	21.5	22.0	--	17.0
15	11.0	--	10.0	15.5	--	14.5	19.0	--	16.0	--	--	--	26.5	--	21.5	22.5	--	17.5
16	10.5	--	10.0	15.5	--	14.5	18.0	--	16.0	--	--	--	25.5	--	20.5	22.0	--	16.5
17	10.0	--	9.0	16.5	--	15.5	17.5	--	15.0	--	24.0	--	25.0	--	20.0	22.0	--	17.0
18	9.0	--	8.5	17.5	--	16.0	18.5	--	15.0	--	--	--	24.5	--	19.5	21.0	--	18.0
19	9.0	--	8.0	17.0	--	16.0	19.5	--	16.0	--	--	--	24.0	--	19.0	19.0	--	18.0
20	9.5	--	8.5	16.5	--	15.5	21.0	--	18.0	--	--	--	24.0	--	18.5	19.0	--	17.5
21	10.5	--	9.0	16.5	--	15.0	22.5	--	19.5	--	--	--	23.0	--	18.0	19.0	--	17.0
22	11.0	--	10.0	16.5	--	15.0	22.0	--	20.0	--	--	--	22.0	--	17.5	18.0	--	17.0
23	12.0	--	10.5	16.5	--	15.5	21.0	--	19.0	--	25.0	--	21.5	--	17.0	18.0	--	16.0
24	12.0	--	11.0	15.5	--	14.0	22.0	--	17.5	--	--	--	20.5	--	17.5	17.0	--	15.5
25	12.5	--	11.0	14.5	--	13.5	22.0	--	20.0	--	--	--	22.5	--	17.5	17.0	--	14.5
26	12.5	--	11.0	14.5	--	13.0	23.5	--	20.5	--	24.0	--	23.0	--	17.5	19.0	--	14.5
27	12.5	--	11.5	16.0	--	14.0	25.0	--	21.0	29.5	--	23.0	22.5	--	18.0	19.0	--	15.5
28	12.5	--	11.0	17.5	--	15.5	25.5	--	21.0	28.5	--	23.0	24.0	--	18.0	19.0	--	16.0
29	11.5	--	10.5	18.5	--	16.5	24.0	--	19.5	28.0	--	22.5	25.0	--	19.0	20.0	--	16.5
30	11.5	--	10.0	18.5	--	17.5	24.0	--	17.0	28.5	--	22.5	23.5	--	19.0	19.5	--	16.5
31	--	--	--	19.5	--	17.5	--	--	--	27.0	--	22.0	22.5	--	19.0	--	--	--
MONTH	12.5	--	6.5	19.5	--	10.0	25.5	--	15.0	--	--	--	28.5	--	17.0	24.0	--	14.5

## KLAMATH RIVER BASIN

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	2850	8	62	2860	10	77	4700	10	127
2	2800	9	68	3020	27	216	4590	10	124
3	2730	6	44	3530	46	450	4950	14	188
4	2670	4	29	5240	43	602	5350	10	144
5	2660	4	29	4580	15	185	4930	7	93
6	2650	5	36	3670	4	40	5040	6	82
7	2620	5	35	3770	10	101	4730	8	102
8	2610	6	42	3820	10	109	4550	8	98
9	2640	6	43	4420	19	222	4400	8	95
10	2940	4	32	4900	16	216	4300	7	81
11	3140	4	34	4800	12	156	4200	7	79
12	3230	4	35	4550	12	147	4150	7	78
13	3060	4	33	4510	11	134	4100	6	66
14	3040	5	41	4530	10	122	4050	6	66
15	3000	6	49	4510	10	122	4180	6	68
16	3060	6	50	4650	11	138	5420	24	424
17	3030	5	41	4650	10	126	23000	440	28500
18	2980	5	40	4650	11	138	24400	235	16700
19	2970	4	32	5340	26	375	28700	282	22200
20	2940	4	32	5310	12	172	21900	120	7100
21	2880	5	39	4970	10	134	19600	74	4050
22	2850	6	46	4940	10	133	35000	344	33200
23	2840	7	54	4860	9	118	27400	198	15000
24	2820	7	53	4930	8	106	23400	135	8530
25	2770	6	45	4900	10	132	17400	73	3430
26	2760	6	45	5050	10	136	12500	52	1760
27	2760	5	37	5580	15	230	11000	38	1130
28	2780	5	38	5450	11	162	9090	39	957
29	2850	5	38	5220	12	169	8700	36	846
30	2820	4	30	5100	10	138	7900	26	555
31	2790	4	30	--	--	--	7200	21	408
TOTAL	88540	--	1262	138310	--	5306	350830	--	146281

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	6800	16	294	8800	19	451	11600	24	749
2	6200	15	251	8580	19	440	10900	19	559
3	6000	14	227	8470	18	412	10500	19	539
4	5600	12	181	8470	18	412	10100	20	545
5	5200	12	168	10000	30	818	9880	22	587
6	5000	11	149	10700	23	664	9950	24	645
7	4850	12	157	10300	22	612	9280	22	551
8	4850	12	157	9760	20	527	9100	19	467
9	5300	11	157	9830	16	425	8730	14	330
10	6000	17	275	11200	29	900	8820	17	408
11	9420	40	1020	11200	23	696	9260	16	400
12	21700	256	18000	10800	20	583	8400	15	340
13	32700	205	18300	10000	18	486	8100	14	306
14	24900	136	9140	9680	14	366	8250	13	290
15	20100	88	4780	9240	13	324	8160	13	286
16	29500	223	18500	8800	13	309	8200	12	266
17	28800	215	16700	8530	13	299	8180	12	265
18	23700	159	10200	8270	13	290	7530	12	244
19	20800	117	6570	8030	11	238	8200	20	446
20	17600	88	4180	7820	10	211	8250	12	267
21	15600	65	2740	7510	10	203	8030	15	325
22	13800	50	1860	7390	10	200	7400	12	240
23	12400	43	1440	7370	10	199	7300	11	217
24	11700	43	1360	7740	13	272	7250	11	215
25	11500	47	1460	9880	31	822	7290	11	217
26	10600	30	859	11000	35	1060	7360	12	238
27	9680	22	575	11500	28	869	7240	12	235
28	9030	21	512	10800	21	612	6980	11	207
29	9050	22	538	--	--	--	6860	10	185
30	9800	20	529	--	--	--	6990	9	170
31	9190	20	496	--	--	--	7040	9	171
TOTAL	407370	--	121775	261670	--	13700	261130	--	10910

11523000 KLAMATH RIVER AT ORLEANS, CALIF.---Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	6940	9	169	7700	11	229	5260	10	142
2	6550	9	159	7420	12	240	4690	8	101
3	6330	8	137	7430	12	241	4310	8	93
4	6260	7	118	7390	12	239	4080	7	77
5	6540	5	88	7130	10	193	3890	7	74
6	7070	11	210	7070	7	134	3780	6	61
7	7230	11	215	7020	6	114	3660	6	59
8	7230	6	117	6980	8	151	3540	6	57
9	7380	6	120	7010	9	170	3460	6	56
10	7630	6	124	6820	9	166	3320	6	54
11	8420	10	240	6750	8	146	3200	6	52
12	8780	9	213	7080	15	287	3130	6	51
13	8730	8	189	7760	27	574	3080	6	50
14	7990	8	173	9470	39	993	2980	6	48
15	7590	8	164	10200	33	926	2910	7	55
16	7420	7	140	10200	29	812	2850	7	54
17	8180	11	243	10400	26	730	2910	7	55
18	7590	9	184	10600	22	630	2850	7	54
19	7190	8	155	9640	19	495	2750	7	52
20	6770	7	128	8050	15	326	2710	7	51
21	6400	6	104	7220	11	214	2680	7	51
22	6440	6	104	6920	12	224	2620	8	57
23	6940	11	206	6460	12	209	2580	8	56
24	7080	10	191	7220	13	253	2530	8	55
25	7310	13	257	7410	15	300	2480	8	54
26	8400	25	561	6440	14	243	2500	8	54
27	10000	40	1090	5780	14	218	2450	8	53
28	10300	37	1030	5560	14	210	2380	8	51
29	9240	38	948	5440	14	206	2300	8	50
30	8290	22	492	5530	14	209	2160	8	47
31	--	--	--	5550	13	195	--	--	--
TOTAL	228220	--	8269	231650	--	10277	94040	--	1824
DAY	JULY			AUGUST			SEPTEMBER		
	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	2060	8	44	1500	4	16	1320	4	14
2	2010	8	43	1480	4	16	1320	4	14
3	1970	8	43	1470	3	12	1320	4	14
4	1950	8	42	1450	3	12	1320	4	14
5	1930	8	42	1430	3	12	1320	4	14
6	1900	8	41	1420	3	12	1300	4	14
7	1880	8	41	1410	3	11	1290	4	14
8	1850	8	40	1400	3	11	1280	4	14
9	1830	7	35	1390	3	11	1280	4	14
10	1810	6	29	1380	2	7.5	1280	4	14
11	1790	6	29	1370	2	7.4	1280	4	14
12	1780	5	24	1360	2	7.3	1280	4	14
13	1770	4	19	1340	2	7.2	1280	4	14
14	1720	4	19	1320	2	7.1	1280	4	14
15	1680	4	18	1310	2	7.1	1280	4	14
16	1650	4	18	1350	2	7.3	1280	4	14
17	1640	4	18	1350	3	11	1280	4	14
18	1620	4	17	1350	4	15	1280	4	14
19	1620	4	17	1340	3	11	1440	8	31
20	1680	5	23	1340	3	11	1870	12	61
21	1680	5	23	1340	2	7.2	1830	6	30
22	1650	6	27	1330	2	7.2	1730	6	28
23	1630	6	26	1330	2	7.2	2220	19	114
24	1630	7	31	1330	3	11	2550	8	55
25	1540	7	29	1360	3	11	2590	8	56
26	1540	8	33	1380	4	15	2040	6	33
27	1530	7	29	1380	3	11	1780	4	19
28	1510	6	24	1380	4	15	1680	3	14
29	1500	5	20	1370	3	11	1640	3	13
30	1490	4	16	1360	4	15	1630	3	13
31	1480	4	16	1340	4	14	--	--	--
TOTAL	53320	--	876	42660	--	336.5	46270	--	719

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)  
 TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

2204010  
 321535.5

## KLAMATH RIVER BASIN

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC.										
17...	0800	4.0	15100	484	19700	90	99	100	--	--
17...	1500	4.0	29900	698	56300	52	69	89	98	100
18...	0800	--	20400	163	8980	79	91	100	--	--
19...	1530	--	28900	373	29100	86	95	99	100	--
22...	1600	--	37100	488	48900	68	84	94	96	100
JAN.										
12...	0745	5.5	14100	136	5160	82	100	--	--	--
13...	1615	--	36700	187	18500	90	99	100	--	--
APR.										
03...	1545	9.5	6330	7	120	52	65	100	--	--

## 11525500 TRINITY RIVER AT LEWISTON, CALIF.

LOCATION.--Lat 40°43'10", long 122°48'09", in SW¼NW¼ sec.17, T.33 N., R.8 W., Trinity County, at gaging station on right bank, 400 ft upstream from Deadwood Creek, and 0.8 mile northeast of Lewiston.

DRAINAGE AREA.--719 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), December 1953 to September 1968, water years 1969-73 (partial-record station).

Water temperatures: September 1951 to September 1955, October 1957 to September 1958, July 1959 to September 1973. Sediment records: Water years 1955-61 (partial-record station).

EXTREMES, 1972-73:

Water temperatures: Maximum, 12.5°C May 11; minimum, 3.5°C Dec. 14-16.

Period of record:

Water temperatures: Maximum (1951-55, 1957-58, 1959-63, 1964-73), 26.0°C July 20, 21, 28, 29, 1960; minimum, 1.0°C on several days in 1952.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
NOV. 13...	0800	258	--	--	--	--	--	--	--	--	--	--
JAN. 16...	0800	169	--	--	--	--	--	--	--	--	--	--
MAR. 05...	0810	147	--	--	--	--	--	--	--	--	--	--
MAY 22...	0715	153	--	--	--	--	2.7	--	50	0	41	--
JULY 09...	0705	156	--	--	--	--	--	--	--	--	--	--
SEP. 11...	0720	208	--	--	--	--	--	--	--	--	--	--
19...	1005	214	40	0	4.8	6.8	1.9	.8	48	0	39	4.9
21...	1400	197	--	--	--	--	2.0	--	49	0	40	--

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
NOV. 13...	--	--	--	--	--	--	--	--	--	--	--
JAN. 16...	--	--	--	--	--	--	--	--	--	--	--
MAR. 05...	--	--	--	--	--	--	--	--	--	--	--
MAY 22...	.1	.06	--	--	.01	--	--	--	39	0	--
JULY 09...	--	--	--	--	--	--	--	--	--	--	--
SEP. 11...	--	--	--	--	--	--	--	--	--	--	--
19...	1.9	.01	.10	.02	.00	52	.07	30.0	40	1	9
21...	1.0	.00	.10	.02	.01	--	--	--	40	0	--

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- RID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 13...	--	83	7.3	7.5	0	10.5	--	--	--	--	--
JAN. 16...	--	91	7.2	5.0	15	11.0	--	--	--	--	--
MAR. 05...	--	90	7.6	7.0	1	10.0	--	--	--	--	--
MAY 22...	.2	84	7.1	8.5	0	10.9	0	--	--	--	--
JULY 09...	--	83	7.2	8.5	0	10.2	--	--	--	--	--
SEP. 11...	--	82	7.2	8.5	1	10.2	--	--	--	--	--
19...	.1	90	7.1	9.0	1	12.6	0	0	0	10	0
21...	.1	90	7.3	10.0	0	12.3	100	--	--	--	--

## KIAMATH RIVER BASIN

11525500 TRINITY RIVER AT LEWISTON, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.0	7.0	7.0	8.0	7.0	6.0	5.5	6.0	5.0	8.5	6.5
2	9.0	8.5	7.5	6.5	8.0	7.5	6.0	5.5	6.0	5.5	8.0	7.0
3	9.5	8.5	7.5	7.0	7.5	7.0	6.0	5.5	6.0	5.5	8.0	7.0
4	10.0	8.5	8.0	7.0	8.0	7.0	6.0	5.5	6.5	6.0	8.5	7.0
5	9.5	9.0	8.0	7.0	7.5	6.5	6.0	5.5	7.0	6.0	8.5	7.5
6	10.0	9.0	8.0	7.5	7.0	6.5	6.0	5.5	7.0	6.0	8.5	7.5
7	10.0	9.0	8.0	7.5	7.0	6.5	5.5	5.0	7.0	6.5	8.5	7.5
8	10.0	9.0	8.0	7.5	6.5	6.0	5.5	4.5	7.0	6.5	8.5	7.5
9	10.0	9.0	8.0	7.5	6.0	5.5	5.0	4.5	7.0	6.5	9.0	7.5
10	9.0	8.5	8.0	7.5	6.0	5.0	5.0	5.0	7.0	6.5	8.5	7.5
11	9.5	8.5	8.0	7.0	5.5	4.5	5.0	4.5	7.0	6.5	9.0	7.0
12	9.5	8.5	8.0	7.5	5.0	4.5	5.0	4.5	7.0	6.5	8.0	7.0
13	9.0	8.5	8.0	7.5	4.5	4.0	5.0	4.5	7.0	6.0	8.0	6.5
14	9.0	8.5	8.0	7.0	4.0	3.5	5.0	4.5	7.0	6.0	8.0	6.5
15	9.0	8.5	7.5	7.0	4.0	3.5	5.5	5.0	7.0	6.0	7.5	6.0
16	8.5	8.0	8.0	7.0	4.0	3.5	5.5	5.0	7.0	6.0	7.5	6.0
17	8.5	8.0	8.0	7.0	5.0	4.0	5.5	5.0	7.5	6.5	7.5	6.5
18	8.5	8.0	8.0	7.5	5.0	4.5	6.0	5.0	7.0	6.5	7.0	6.0
19	8.5	8.0	8.0	7.5	5.5	5.0	6.0	5.0	7.5	6.5	6.5	6.0
20	9.0	8.0	8.0	7.5	5.5	5.0	6.0	5.5	7.5	6.5	7.0	6.0
21	9.0	8.0	8.0	7.5	6.0	5.5	6.0	5.5	7.5	6.5	6.5	6.0
22	9.0	8.5	8.0	7.0	6.5	6.0	6.0	6.0	8.0	6.5	7.0	5.5
23	9.0	8.0	8.0	7.5	6.5	6.0	6.0	6.0	7.5	6.5	7.0	5.5
24	9.0	8.5	8.0	7.5	6.5	6.0	6.0	6.0	7.5	7.0	7.5	6.0
25	9.0	8.0	8.0	7.5	6.5	6.0	6.0	5.5	7.5	7.0	7.5	6.0
26	8.5	7.5	8.0	7.0	6.5	6.0	6.0	5.5	7.0	6.5	7.5	6.5
27	8.5	7.5	8.0	7.0	6.5	6.5	6.0	5.5	7.0	6.5	7.5	6.5
28	8.5	7.5	7.5	7.0	6.5	6.0	6.0	5.5	7.5	6.5	8.0	6.5
29	8.0	7.5	7.5	7.0	6.5	6.0	5.5	5.0	---	---	7.5	6.0
30	8.0	7.0	7.5	7.0	6.5	6.0	6.0	5.5	---	---	7.0	6.5
31	7.5	7.0	---	---	6.5	6.0	5.5	5.0	---	---	8.5	6.5
MONTH	10.0	7.0	8.0	6.5	8.0	3.5	6.0	4.5	8.0	5.0	9.0	5.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	6.0	10.5	7.5	10.0	8.5	10.5	9.0	11.0	8.5	10.0	8.0
2	9.0	6.5	10.0	7.5	10.0	8.5	10.5	9.0	11.0	9.0	9.5	7.5
3	8.5	6.5	10.0	7.5	10.5	8.5	10.5	9.0	11.0	8.5	9.5	7.5
4	8.5	6.5	10.0	8.0	11.0	9.0	10.5	9.0	11.0	8.5	9.5	7.5
5	9.0	6.5	10.5	8.5	11.0	9.0	10.5	9.0	11.0	8.5	10.0	7.5
6	9.0	7.0	10.5	8.5	11.0	9.0	10.5	9.0	11.5	9.0	9.5	8.0
7	9.5	7.0	10.5	9.0	11.0	9.5	10.5	9.0	11.5	9.0	10.0	8.0
8	9.0	7.0	11.5	9.0	11.5	9.5	10.5	9.0	11.0	9.0	10.0	8.0
9	9.0	7.0	11.5	9.5	11.5	9.5	10.5	8.5	11.0	9.0	10.0	8.0
10	9.5	7.0	12.0	10.5	10.5	9.5	10.5	8.5	11.0	9.0	9.5	8.0
11	9.5	7.5	12.5	10.0	11.5	9.5	10.5	9.0	11.0	9.0	9.5	8.0
12	10.0	7.5	10.5	9.0	11.5	9.0	10.5	9.0	11.5	9.0	9.5	8.0
13	9.5	8.0	10.0	8.5	10.5	9.5	10.5	8.5	11.0	9.0	10.0	8.0
14	10.0	7.5	10.0	8.0	11.0	9.5	10.5	9.0	11.0	9.0	10.0	8.0
15	10.0	7.5	10.0	8.5	11.0	9.0	11.0	9.0	11.0	8.5	9.5	8.5
16	8.0	7.0	10.0	8.0	10.5	9.0	11.0	9.0	11.0	8.5	10.0	8.0
17	9.5	7.0	10.0	8.0	10.5	8.5	11.0	9.0	10.5	8.5	10.0	8.0
18	9.0	6.5	10.0	8.0	10.5	8.5	11.0	9.0	11.0	8.5	9.5	8.5
19	9.5	6.5	10.5	8.0	10.0	8.5	11.0	9.0	11.0	8.5	9.0	8.5
20	9.5	6.5	10.0	8.5	10.0	8.5	11.5	9.0	10.5	8.5	9.5	8.0
21	9.5	6.5	9.5	8.0	10.0	8.5	10.5	9.5	10.5	8.0	9.0	8.0
22	9.5	6.5	9.5	8.0	10.0	8.5	10.5	9.0	10.5	8.0	9.0	8.0
23	9.5	7.0	9.0	8.0	9.5	8.5	10.5	9.0	10.5	8.0	10.0	8.5
24	10.0	7.0	8.5	8.0	10.0	8.5	10.5	9.0	9.5	8.0	9.5	8.5
25	10.0	7.0	10.0	8.5	10.5	8.5	10.5	8.5	10.0	8.0	9.5	8.0
26	9.5	7.0	10.0	8.0	10.5	8.5	10.5	8.5	10.0	8.0	9.5	8.0
27	9.5	7.0	10.0	8.5	10.5	8.5	11.0	8.5	10.0	8.0	9.5	8.0
28	9.5	7.0	10.0	8.5	10.5	8.5	9.5	7.5	10.0	8.5	9.0	8.0
29	10.0	7.5	10.0	8.5	10.5	9.0	9.5	7.5	10.0	8.0	9.0	8.0
30	10.5	7.5	9.0	8.5	10.5	9.0	9.5	8.0	10.0	8.0	9.0	8.0
31	---	---	9.0	8.5	---	---	10.0	8.0	10.0	7.5	---	---
MONTH	10.5	6.0	12.5	7.5	11.5	8.5	11.5	7.5	11.5	7.5	10.0	7.5

## 11527000 TRINITY RIVER NEAR BURNT RANCH, CALIF.

LOCATION.--Lat 40°47'20", long 123°26'20", in S<sub>1</sub> sec.19, T.5 N., R.7 E., Trinity County, Trinity National Forest, temperature recorder at gaging station on left bank 500 ft upstream from Cedar Flat Creek, 700 ft upstream from highway bridge at Cedar Flat, and 2.3 miles southeast of town of Burnt Ranch.

DRAINAGE AREA.--1,439 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1966.

Water temperatures: October 1961 to September 1964, October 1966 to September 1967, October 1968 to September 1973.

Sediment records: Water year 1968 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 24.0°C on several days during July and August; minimum, freezing point Dec. 7-11.

Period of record:

Water temperatures (1962-64, 1966-67, 1968-73): Maximum, 27.0°C Aug. 17-19, 24, 1967; minimum (1962-63, 1966-67, 1968-73), freezing point Dec. 7-11, 1972.

REMARKS.--Recorder stopped Oct. 1-5, Oct. 27 to Nov. 16, Dec. 27 to Jan. 16, Apr. 4-20, May 13-16, 21, 22, Aug. 29 to Sept. 28. Where no maximum or minimum is shown, temperature is once-daily reading.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	--	--	--	--	5.0	5.0	--	--	5.5	4.0	8.5	6.5
2	--	--	--	--	6.0	5.0	--	--	6.0	5.5	7.0	6.5
3	--	--	--	--	5.0	3.0	--	--	6.0	5.5	6.5	6.0
4	--	--	--	--	4.0	3.0	--	--	5.5	5.5	7.0	6.0
5	--	--	--	--	3.5	2.0	--	--	6.5	5.5	7.5	6.0
6	16.5	14.5	--	--	2.5	2.0	--	--	7.5	6.0	7.5	6.0
7	17.0	14.5	--	--	2.0	0.0	--	--	7.5	6.5	7.0	6.0
8	16.5	15.0	--	--	1.0	0.0	--	--	7.5	6.5	8.0	7.0
9	16.0	15.0	--	--	1.0	0.0	--	--	7.5	6.5	8.5	7.5
10	15.5	14.5	--	--	0.5	0.0	--	--	7.0	6.5	8.0	7.0
11	14.5	13.5	--	--	0.5	0.0	--	--	7.5	6.5	8.5	6.5
12	14.5	13.0	--	--	1.0	0.5	--	--	7.5	6.0	7.5	6.5
13	14.5	13.0	--	--	1.0	0.5	--	--	7.5	6.0	8.0	7.0
14	14.0	13.5	--	--	0.5	0.5	--	--	7.5	6.5	9.0	6.5
15	14.0	13.5	--	--	1.0	0.5	--	6.0	7.0	6.5	10.0	7.0
16	14.0	13.0	--	--	2.0	1.0	--	--	7.5	6.0	8.5	7.5
17	14.0	13.0	8.0	7.5	2.5	2.0	6.5	6.0	7.0	6.0	7.5	6.5
18	14.0	13.5	8.5	7.5	4.0	2.0	6.5	5.5	6.5	5.0	9.0	6.5
19	14.0	13.0	8.5	8.0	5.0	4.0	5.5	5.5	6.5	4.5	8.5	6.0
20	14.0	13.0	8.5	8.0	6.0	5.0	5.5	5.5	8.0	5.0	7.5	6.0
21	14.0	13.0	8.0	7.5	6.0	6.0	6.0	5.5	7.5	5.0	7.5	6.5
22	13.5	13.0	8.0	7.5	6.5	6.0	6.0	5.5	7.5	5.5	9.0	6.5
23	13.5	13.5	8.5	7.5	6.0	5.5	6.0	5.0	7.5	6.0	10.5	7.0
24	13.5	12.5	8.0	7.0	5.5	5.0	6.0	5.5	7.5	6.5	11.0	7.0
25	12.5	10.5	7.0	6.5	5.5	5.0	5.5	5.5	8.0	7.0	11.0	8.0
26	12.0	11.5	7.0	6.5	5.5	3.5	5.5	4.5	8.0	7.0	10.0	8.0
27	--	--	7.0	6.5	--	--	5.5	4.0	7.0	6.5	8.5	7.5
28	--	--	7.0	6.5	--	--	5.5	4.5	7.0	6.5	10.0	7.5
29	--	--	6.5	5.5	--	--	5.5	4.5	--	--	9.0	7.5
30	--	--	5.5	5.0	--	--	5.5	4.5	--	--	9.0	8.0
31	--	--	--	--	--	--	5.0	4.0	--	--	9.5	8.0
MONTH	--	--	--	--	6.5	0.0	--	--	8.0	4.0	11.0	6.0
DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	8.5	8.0	14.0	9.0	19.5	17.5	22.0	18.5	23.5	19.5	--	--
2	11.0	7.5	14.5	10.0	19.0	16.0	22.0	19.0	23.5	20.0	--	--
3	12.0	7.5	13.5	10.0	19.0	16.5	22.5	19.0	24.0	20.0	--	--
4	--	9.5	12.5	10.0	19.5	17.0	22.5	19.5	24.0	20.0	--	--
5	--	--	14.5	10.5	20.5	17.0	22.5	20.0	24.0	20.0	--	--
6	--	--	14.0	11.0	20.5	17.5	22.5	19.5	24.0	20.0	--	--
7	--	--	14.0	11.0	20.5	18.0	21.5	19.0	23.5	19.5	--	--
8	--	--	15.0	11.0	20.5	18.0	22.5	19.0	23.5	20.0	--	--
9	--	--	15.0	11.0	20.5	18.0	23.0	20.0	23.0	20.0	--	--
10	--	--	16.0	11.0	21.0	18.0	22.5	19.5	22.5	19.5	--	--
11	--	--	17.0	12.0	20.5	17.5	22.0	19.5	23.0	20.0	--	--
12	--	--	17.0	12.5	20.0	17.5	23.5	20.0	23.5	20.0	--	--
13	--	--	--	--	19.0	18.0	24.0	20.0	23.5	20.0	--	--
14	--	9.5	--	--	19.0	17.0	24.0	20.0	24.0	20.0	--	--
15	--	--	--	--	19.0	17.5	24.0	20.0	23.5	19.5	--	--
16	--	--	--	--	19.5	17.5	23.5	20.0	23.0	19.0	--	--
17	--	--	19.0	16.0	18.5	17.0	23.5	20.0	22.0	18.5	--	--
18	--	--	18.5	16.0	19.5	16.5	23.5	20.0	22.0	18.0	--	--
19	--	--	18.0	14.5	20.5	17.0	23.0	19.5	21.5	18.0	--	--
20	--	--	18.0	15.5	21.0	18.0	21.5	19.0	22.0	18.5	--	--
21	13.0	7.5	--	--	22.5	19.0	21.5	18.5	22.0	18.0	--	--
22	13.0	9.0	--	--	22.0	19.0	21.0	18.0	21.0	18.0	--	--
23	13.0	8.5	18.5	16.0	20.5	19.0	21.5	18.5	20.5	18.0	--	--
24	14.0	9.0	17.5	16.0	20.5	18.5	22.0	19.0	20.0	18.0	--	--
25	14.5	9.0	17.0	14.5	21.0	19.0	23.0	19.0	19.0	18.0	--	--
26	14.0	10.0	17.5	14.0	22.0	19.5	24.0	20.0	20.5	18.5	--	--
27	13.5	9.5	18.5	15.5	23.0	19.5	24.0	20.0	21.0	18.5	--	--
28	13.5	9.0	19.0	16.5	23.0	19.5	24.0	20.0	22.0	18.5	--	--
29	13.0	9.0	20.0	16.0	22.5	19.5	24.0	19.5	--	--	17.5	15.5
30	13.5	8.5	20.0	17.0	21.5	18.5	23.5	19.5	--	--	17.0	15.5
31	--	--	19.0	18.0	--	--	--	--	--	--	--	--
MONTH	--	--	20.0	9.0	23.0	16.0	24.0	18.0	24.0	18.0	--	--

LOCATION.--Lat 40°37'34", long 123°26'01", in SE $\frac{1}{4}$  NW $\frac{1}{4}$  sec.19, T.3 N., R.7 E., Trinity County, Trinity National Forest, temperature recorder at gaging station on right bank, 1.2 miles upstream from mouth, and 1.3 miles northeast of Hyampom.

DRAINAGE AREA.--378 sq mi.

PERIOD OF RECORD.--Water temperatures: December 1960 to September 1973.

EXTREMES, --1972-73:

Water temperatures: Maximum, 25.0°C Aug. 4; minimum, 1.0°C on several days during December.

Period of record:

Water temperatures (1960-68, 1971-73): Maximum (1960-61, 1962-66, 1967-68, 1971-73), 28.5°C July 13, 1961; minimum (1960-68, 1972-73), freezing point on several days in 1962 and 1968.

REMARKS.--Recorder malfunction Oct. 1-6; recorder stopped June 1 to July 11, Aug. 7-16.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	8.0	7.0	5.5	4.5	4.0	3.0	5.5	5.0	7.5	7.5
2	---	---	9.0	8.0	5.0	4.5	4.0	3.0	6.0	5.5	7.5	6.5
3	---	---	9.5	8.5	5.5	5.0	3.5	3.5	6.0	5.5	7.0	6.5
4	---	---	10.0	9.5	5.5	4.5	4.0	3.0	6.0	5.5	7.0	6.5
5	---	---	10.0	9.0	4.5	4.0	3.0	2.5	6.5	5.0	7.5	6.5
6	---	---	9.0	8.5	4.0	2.5	3.0	2.0	7.0	6.0	7.5	7.0
7	14.5	13.0	9.0	9.0	2.5	2.0	2.5	1.5	7.0	6.5	7.0	6.5
8	14.5	13.0	9.5	8.5	2.0	1.5	2.0	1.5	7.5	7.0	8.0	7.0
9	14.0	13.5	9.0	8.5	1.5	1.5	2.0	1.5	7.5	7.0	9.0	7.5
10	14.0	13.0	8.5	8.0	1.5	1.0	3.0	2.0	7.0	6.5	9.0	8.0
11	13.5	13.0	9.0	8.5	1.5	1.0	3.0	2.5	7.0	6.5	8.0	7.0
12	13.5	13.0	8.5	8.0	1.5	1.0	4.5	3.0	7.0	6.5	7.5	7.0
13	13.5	12.5	8.5	8.0	1.5	1.0	6.0	4.0	7.0	6.0	7.5	7.0
14	13.0	12.5	8.5	8.0	1.5	1.0	6.0	5.0	7.0	6.5	7.0	6.5
15	13.5	12.5	8.5	8.0	1.0	1.0	6.0	5.5	7.0	6.0	8.5	7.0
16	13.0	12.5	8.5	8.0	1.0	1.0	7.0	5.5	7.0	6.0	9.0	8.5
17	13.5	12.5	8.0	7.0	3.5	1.0	7.5	6.5	6.5	6.0	8.5	7.0
18	13.5	12.5	7.5	7.0	5.0	3.5	7.0	6.5	6.5	6.0	8.0	6.5
19	13.5	12.5	8.0	7.5	7.0	5.0	6.5	6.0	6.0	5.0	8.0	6.5
20	13.0	12.0	8.0	7.5	7.5	6.5	6.0	5.5	5.5	5.0	7.0	6.5
21	13.0	11.5	8.0	7.5	8.0	7.0	6.5	6.0	6.5	5.5	7.0	6.5
22	13.0	11.5	8.0	7.0	8.0	7.5	6.5	6.0	6.5	6.0	7.5	6.5
23	13.5	12.0	7.5	7.0	8.0	7.0	6.0	5.0	7.0	6.0	8.0	7.0
24	12.5	11.5	7.0	6.5	7.5	7.0	6.0	5.5	7.5	7.0	8.5	7.5
25	11.5	10.0	6.5	5.5	7.0	6.0	6.0	5.5	7.5	7.0	9.5	8.5
26	11.0	9.5	6.5	5.5	6.0	5.5	5.5	4.5	7.5	7.0	9.5	9.0
27	10.0	8.5	7.5	6.5	6.0	5.5	5.0	4.5	7.5	7.0	9.5	8.5
28	9.0	8.0	7.5	6.5	6.0	5.0	5.0	4.5	8.0	7.0	8.5	8.0
29	9.0	7.5	7.0	6.5	5.0	4.5	5.5	5.0	---	---	8.0	7.5
30	7.5	6.5	6.5	5.5	4.5	4.0	5.5	5.5	---	---	8.5	8.0
31	7.0	6.0	---	---	4.5	4.0	6.0	5.0	---	---	8.0	7.5
MONTH	14.5	6.0	10.0	5.5	8.0	1.0	7.5	1.5	8.0	5.0	9.5	6.5
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.0	14.5	12.5	---	---	---	---	24.5	22.5	20.0	18.0
2	8.5	7.5	15.0	13.5	---	---	---	---	24.5	23.0	19.5	17.5
3	8.5	7.5	14.5	13.5	---	---	---	---	24.5	22.5	20.0	17.0
4	10.0	8.0	14.0	13.0	---	---	---	---	25.0	22.5	20.5	17.5
5	11.5	9.5	14.5	12.5	---	---	---	---	24.5	22.0	20.5	18.0
6	11.5	11.0	15.0	13.5	---	---	---	---	24.0	22.0	20.0	18.0
7	11.5	10.0	15.0	13.5	---	---	---	---	---	---	20.5	18.5
8	11.5	10.0	15.5	13.5	---	---	---	---	---	---	20.0	18.0
9	12.0	11.0	16.0	14.0	---	---	---	---	---	---	20.0	17.5
10	13.0	11.5	16.0	14.0	---	---	---	---	---	---	20.0	18.0
11	13.0	12.0	16.5	14.0	---	---	---	---	---	---	20.5	18.0
12	12.0	11.0	17.5	15.0	---	---	23.0	21.0	---	---	20.5	18.0
13	12.0	11.0	18.0	15.5	---	---	23.5	22.0	---	---	20.0	18.0
14	11.5	10.5	19.5	17.0	---	---	24.0	22.0	---	---	20.0	17.0
15	12.0	11.0	19.5	17.0	---	---	24.0	22.0	---	---	19.5	17.0
16	12.0	11.0	20.0	17.5	---	---	24.5	22.5	---	---	18.5	16.5
17	11.5	10.5	20.5	18.0	---	---	24.5	22.5	22.0	20.0	19.0	16.5
18	10.5	10.0	21.0	19.0	---	---	24.5	22.0	21.5	19.0	18.5	17.0
19	11.0	10.0	20.0	18.0	---	---	23.5	22.0	22.0	19.0	17.5	17.0
20	11.5	10.0	18.5	16.5	---	---	24.0	21.0	22.0	19.0	18.0	17.0
21	12.0	10.5	18.5	16.0	---	---	22.5	20.0	21.5	19.0	18.0	16.5
22	12.5	11.5	19.0	17.0	---	---	22.0	19.5	21.0	18.5	17.0	16.5
23	13.0	11.5	18.0	17.0	---	---	21.5	19.0	19.0	17.5	17.5	16.5
24	13.5	12.0	17.0	16.0	---	---	22.0	19.0	18.0	17.0	17.0	16.0
25	14.0	13.0	17.0	15.5	---	---	22.0	20.0	19.5	16.5	16.5	15.5
26	15.0	14.0	16.5	14.5	---	---	23.0	21.0	20.0	18.0	16.0	15.0
27	15.0	14.0	18.5	15.0	---	---	24.0	22.0	20.5	18.0	16.0	14.5
28	15.0	13.5	19.5	17.0	---	---	24.0	23.0	21.0	18.0	16.5	14.5
29	14.0	13.0	20.0	18.0	---	---	25.0	23.0	21.5	18.5	17.0	15.0
30	14.0	12.5	20.0	19.0	---	---	24.0	22.5	21.0	19.0	17.0	15.0
31	---	---	20.0	18.5	---	---	24.5	22.5	21.0	19.0	---	---
MONTH	15.0	7.0	21.0	12.5	---	---	---	---	---	---	20.5	14.5



## 11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CALIF.

LOCATION.--Lat 40°39'00", long 123°29'35", in NW¼SW¼ sec.10, T.3 N., R.6 E., Trinity County, Trinity National Forest, temperature recorder, at gaging station on left bank, 0.3 mile downstream from Big Creek, 3.0 miles northeast of Hyampom, and 3.5 miles downstream from Hayfork Creek.

DRAINAGE AREA.--764 sq. mi.

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1973.

Sediment records: October 1966 to September 1970.

EXTREMES.--1972-73:

Water temperatures: Maximum, 27.0°C on several days during July and August; minimum, freezing point Dec. 10, 11.

Period of record:

Water temperatures: Maximum, 29.0°C June 30, July 1, 3, 1967, Aug. 1, 2, 1968; minimum, freezing point on several days in 1965, 1967-68, 1973.

REMARKS.--Recorder malfunction Oct. 1-5; recorder stopped Jan. 15, 16.

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	10.5	9.5	7.5	6.0	4.0	3.5	5.0	4.0	8.5	6.5
2	---	---	12.5	10.0	7.0	6.0	4.0	3.0	5.0	4.0	8.0	7.0
3	---	---	12.0	11.0	7.5	6.5	3.0	2.0	5.5	5.0	7.5	6.5
4	---	---	12.0	10.0	6.5	5.0	3.5	2.0	6.0	5.0	7.5	6.5
5	---	---	11.5	9.0	5.0	3.5	3.0	2.0	6.0	5.0	8.0	6.5
6	19.5	14.0	10.0	8.5	3.5	2.0	2.5	2.0	7.0	6.0	8.5	7.0
7	19.0	14.0	10.0	9.0	3.5	1.5	2.5	1.5	7.5	6.5	7.5	6.5
8	18.0	14.5	10.0	8.5	2.5	0.5	3.0	2.0	7.5	7.0	8.5	7.0
9	17.5	15.5	8.5	8.0	1.5	0.5	3.5	3.0	8.0	7.0	9.5	7.5
10	16.0	14.5	8.5	8.0	1.5	0.0	6.0	3.5	7.0	6.5	9.0	8.0
11	15.5	14.0	9.0	8.0	1.5	0.0	7.5	6.0	7.0	6.5	8.5	7.0
12	15.0	14.0	9.0	8.0	1.5	0.5	7.0	6.0	7.0	6.5	8.0	7.0
13	17.0	14.0	8.5	8.0	2.0	1.0	6.5	6.0	7.0	6.5	8.0	6.5
14	15.0	14.0	8.0	7.5	2.5	1.5	7.0	6.5	7.5	6.5	8.5	6.5
15	15.5	14.0	8.5	8.0	2.0	1.5	---	---	7.5	6.5	9.5	6.5
16	15.0	13.5	9.0	8.0	2.0	1.5	---	---	7.0	6.0	8.5	7.5
17	15.5	13.5	8.5	7.5	4.0	1.5	6.0	5.5	7.5	6.5	7.5	6.0
18	16.0	13.5	9.0	7.5	5.5	4.0	6.0	5.0	7.0	5.5	7.5	5.5
19	16.5	13.0	9.5	8.5	9.0	5.5	5.0	4.5	6.0	4.5	7.5	6.0
20	16.5	13.0	10.0	8.5	9.0	8.5	4.5	4.0	7.0	5.0	6.5	5.5
21	16.0	12.5	9.0	8.5	8.5	8.0	5.5	4.5	7.5	5.0	6.5	5.5
22	15.5	13.5	10.5	8.0	8.0	7.0	5.5	4.5	7.5	5.5	8.5	5.5
23	16.5	13.5	9.0	7.5	7.5	6.5	4.5	4.0	7.5	6.0	9.5	7.0
24	16.5	11.5	8.5	7.5	7.0	6.0	4.5	4.5	7.5	7.5	9.5	7.0
25	15.0	10.5	8.5	7.0	7.0	6.0	5.0	4.0	8.5	7.5	11.0	8.5
26	15.0	10.5	8.5	7.0	7.0	5.0	4.0	3.5	8.0	8.0	10.5	8.5
27	13.5	9.5	10.0	8.5	5.5	4.5	4.0	3.0	8.0	7.5	9.5	7.5
28	11.0	9.0	9.5	8.0	5.0	4.0	4.5	3.0	8.0	7.0	9.5	7.5
29	12.0	8.0	9.5	8.0	5.0	4.0	4.0	3.5	---	---	8.5	6.5
30	11.5	7.0	8.5	7.0	4.5	3.5	4.5	4.0	---	---	8.5	8.0
31	11.0	7.5	---	---	4.0	3.0	5.0	4.0	---	---	8.5	7.5
MONTH	19.5	7.0	12.5	7.0	9.0	0.0	7.5	1.5	8.5	4.0	11.0	5.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	7.5	15.5	10.0	21.0	16.0	24.0	17.0	27.0	19.0	23.5	15.5
2	9.5	7.0	16.0	11.0	21.0	15.5	23.5	17.0	27.0	19.0	24.0	15.0
3	10.5	7.0	15.5	11.0	21.5	15.5	24.0	17.0	27.0	19.0	24.5	15.0
4	11.0	7.5	14.0	11.5	23.0	15.5	24.5	17.5	26.5	19.0	24.5	16.0
5	12.5	8.5	15.5	10.0	23.5	17.0	24.0	18.5	26.5	19.0	23.0	16.5
6	13.0	9.5	16.0	11.5	23.5	17.5	23.5	17.0	26.0	18.5	23.0	15.5
7	12.5	9.0	15.0	11.0	23.5	17.5	23.5	17.0	25.5	17.5	22.5	17.0
8	12.5	8.5	16.5	10.5	24.0	17.5	24.5	17.5	25.5	17.5	23.0	15.0
9	13.0	10.0	16.5	11.0	23.0	18.0	24.5	17.5	25.0	17.5	24.0	15.5
10	14.5	11.0	16.5	11.0	23.5	16.5	23.5	17.5	25.0	17.5	24.0	16.5
11	14.0	11.0	18.0	11.5	23.0	17.0	24.5	18.0	25.5	17.5	23.0	16.5
12	13.5	10.5	18.5	12.0	21.5	17.5	26.5	20.0	25.5	18.5	23.5	16.5
13	11.5	10.0	19.5	13.0	21.0	16.5	27.0	20.0	26.0	18.0	23.0	16.0
14	12.5	9.5	20.0	14.5	20.0	14.5	27.0	20.0	26.0	18.0	23.0	15.5
15	13.5	10.0	20.0	14.0	21.0	14.5	27.0	20.0	25.0	17.5	22.5	15.5
16	11.0	10.0	19.5	14.5	20.5	16.0	26.5	20.0	24.5	16.5	23.0	14.5
17	10.5	8.0	21.0	15.5	21.5	15.5	27.0	20.5	24.0	17.0	23.0	15.5
18	9.5	7.5	22.0	14.5	21.0	16.0	26.5	20.0	24.0	15.5	22.5	16.5
19	11.0	7.5	21.0	15.5	22.5	15.0	26.5	19.5	24.5	16.0	19.0	17.0
20	12.0	8.0	20.0	14.5	24.5	16.5	24.5	18.5	24.5	16.5	19.5	16.5
21	13.0	8.0	21.0	14.0	24.0	18.0	23.5	17.5	23.0	16.0	22.0	16.5
22	14.0	9.5	20.5	14.5	22.0	18.5	23.0	17.0	22.5	15.0	19.5	16.5
23	14.0	9.5	18.0	15.5	20.5	18.0	23.0	16.0	20.5	15.0	20.5	17.0
24	15.0	10.0	17.0	15.5	24.0	16.5	24.0	16.5	20.0	15.0	19.0	16.5
25	16.0	10.5	18.0	13.5	24.0	18.0	25.0	17.5	23.0	15.0	20.5	16.0
26	16.5	11.5	18.0	12.0	25.5	19.0	26.0	19.0	23.5	15.5	21.0	16.0
27	16.0	11.5	20.0	13.5	25.5	19.5	26.0	19.5	23.5	15.5	21.0	14.5
28	15.5	11.0	21.5	14.5	25.5	20.0	27.0	20.0	24.5	16.0	21.0	15.0
29	15.0	10.0	22.0	16.0	24.0	19.0	26.0	19.5	25.0	17.0	21.5	15.5
30	15.0	10.0	20.0	18.0	23.0	17.5	26.5	19.5	23.5	17.0	20.0	15.5
31	---	---	21.0	17.0	---	---	26.5	18.5	22.5	17.0	---	---
MONTH	16.5	7.0	22.0	10.0	25.5	14.5	27.0	16.0	27.0	15.0	24.5	14.5

## KLAMATH RIVER BASIN

11530000 TRINITY RIVER AT HOOPA, CALIF.

LOCATION.--Lat 41°03'00", long 123°40'15", in SE¼NW¼ sec.25, T.8 N., R.4 E., Humboldt County, in Hoopa Valley Indian Reservation, at gaging station at Hoopa, 0.4 mile upstream from Supply Creek.

DRAINAGE AREA.--2,854 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1973.

Water temperatures: November 1956 to September 1973.

Sediment records: Water years 1955-56 (partial-record station), October 1956 to September 1973.

Prior to October 1964, published as "near Hoopa".

EXTREMES.--1972-73:

Sediment concentrations: Maximum daily, 1,930 mg/l Dec. 17; minimum daily, 2 mg/l on several days during July and August.

Sediment discharge: Maximum daily, 104,000 tons Jan. 16; minimum daily, 2.4 tons Aug. 21-24.

Period of record:

Water temperatures: Maximum (1963-66, 1968-69), 27.0°C July 16, 1965; minimum (1964-71), 2.0°C on several days in 1967-68, 1971.

Sediment concentrations: Maximum daily, 20,400 mg/l Dec. 23, 1964; minimum daily, 1 mg/l on many days in 1957-64, 1968-70.

Sediment discharge: Maximum daily, 8,900,000 tons Dec. 23, 1964; minimum daily, 0.81 ton Sept. 30, 1969.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Oct. 1 to Jan. 31, May 22-26, May 29 to Aug. 14, recorder malfunction. Where no maximum or minimum is shown, temperature is once-daily reading. Measurement of suspended sediment made at bridge on State Highway 96, 1.0 mile downstream from gaging station. No appreciable inflow between sampling point and gaging station except during periods of heavy runoff.

REVISIONS (water years).--WRD Calif. 1970: 1969.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)
OCT.										
02...	1000	--	636	--	--	--	--	--	--	--
NOV.										
13...	1045	--	2110	--	--	--	--	--	--	--
DEC.										
04...	1020	E1970	--	--	--	--	--	--	--	--
JAN.										
16...	1030	--	28800	2.4	68	0	56	3.6	.07	.01
FEB.										
05...	0945	--	13400	--	--	--	--	--	--	--
MAR.										
05...	1040	--	8310	--	--	--	--	--	--	--
APR.										
02...	1015	--	6500	--	--	--	--	--	--	--
MAY										
22...	0950	--	3070	2.5	70	0	57	1.0	.02	.00
JUNE										
19...	0950	--	1350	--	--	--	--	--	--	--
JULY										
09...	0935	--	849	--	--	--	--	--	--	--
AUG.										
06...	1135	--	498	--	--	--	--	--	--	--
SEP.										
11...	1005	--	481	4.6	106	0	87	5.2	.03	.00

E Estimated

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT.									
02...	--	--	--	219	7.8	16.0	1	8.8	--
NOV.									
13...	--	--	--	191	7.6	9.0	15	10.7	--
DEC.									
04...	--	--	--	168	7.5	6.5	50	11.6	--
JAN.									
16...	65	9	.1	125	7.5	7.0	310	11.8	0
FEB.									
05...	--	--	--	149	7.6	6.0	150	12.0	--
MAR.									
05...	--	--	--	156	7.5	7.5	40	10.5	--
APR.									
02...	--	--	--	156	7.8	7.0	40	10.9	--
MAY									
22...	60	3	.1	126	8.3	15.0	4	10.0	0
JUNE									
19...	--	--	--	170	7.3	16.0	1	9.6	--
JULY									
09...	--	--	--	187	7.8	19.0	1	9.7	--
AUG.									
06...	--	--	--	201	7.8	24.0	0	9.3	--
SEP.									
11...	97	10	.2	192	8.0	19.0	0	11.1	100

## KLAMATH RIVER BASIN

593

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT			NOV			DEC			JAN			FEB			MAR		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	--	17.0	--	--	12.0	--	--	--	--	--	--	--	8.0	--	7.0	9.5	--	9.0
2	--	18.0	--	--	10.0	--	--	--	--	--	--	--	7.5	--	7.0	9.5	--	8.0
3	--	--	--	--	10.0	--	--	--	--	--	--	--	8.0	--	7.0	9.0	--	8.0
4	--	18.0	--	--	11.0	--	--	--	--	--	--	--	8.0	--	7.0	8.5	--	7.5
5	--	16.0	--	--	12.0	--	--	--	--	--	--	--	7.5	--	7.0	8.0	--	7.5
6	--	20.0	--	--	12.0	--	--	--	--	--	--	--	8.0	--	7.5	8.5	--	7.5
7	--	17.0	--	--	12.0	--	--	--	--	--	--	--	8.5	--	8.0	9.0	--	8.0
8	--	17.0	--	--	12.0	--	--	--	--	--	--	--	9.0	--	8.0	9.5	--	8.0
9	--	16.0	--	--	--	--	--	--	--	--	--	--	9.0	--	8.0	9.5	--	8.5
10	--	16.0	--	--	11.0	--	--	--	--	--	7.5	--	8.5	--	6.0	10.0	--	8.0
11	--	15.0	--	--	10.0	--	--	--	--	--	10.0	--	9.0	--	8.0	9.0	--	8.0
12	--	15.0	--	--	11.0	--	--	--	--	--	--	--	9.0	--	8.0	9.0	--	7.5
13	--	16.0	--	--	9.0	--	--	--	--	--	7.0	--	9.0	--	8.0	9.0	--	7.0
14	--	16.0	--	--	10.0	--	--	--	--	--	--	--	9.0	--	8.0	9.5	--	7.5
15	--	--	--	--	11.0	--	--	--	--	--	--	--	9.0	--	8.0	9.0	--	8.0
16	--	16.0	--	--	9.0	--	--	--	--	--	--	--	9.0	--	8.0	9.0	--	8.0
17	--	15.0	--	--	--	--	--	--	--	--	--	--	8.5	--	7.5	9.0	--	7.5
18	--	14.0	--	--	10.0	--	--	--	--	--	--	--	8.0	--	7.0	8.0	--	7.5
19	--	14.0	--	--	10.0	--	--	--	--	--	7.0	--	8.0	--	7.0	7.5	--	7.0
20	--	16.0	--	--	--	--	--	7.0	--	--	--	--	8.0	--	7.0	8.0	--	7.0
21	--	14.0	--	--	--	--	--	7.0	--	--	--	--	8.0	--	7.0	8.0	--	7.0
22	--	15.0	--	--	--	--	--	--	--	--	--	--	8.0	--	7.0	9.0	--	7.0
23	--	15.0	--	--	9.0	--	--	--	--	--	--	--	8.5	--	7.5	10.0	--	8.0
24	--	13.0	--	--	9.0	--	--	--	--	--	--	--	9.0	--	8.5	10.0	--	8.0
25	--	13.0	--	--	10.0	--	--	--	--	--	--	--	9.0	--	8.0	10.5	--	9.0
26	--	13.0	--	--	--	--	--	--	--	--	--	--	9.5	--	9.0	10.5	--	9.0
27	--	13.0	--	--	9.0	--	--	--	--	--	--	--	9.0	--	8.5	10.0	--	9.0
28	--	11.0	--	--	9.0	--	--	--	--	--	--	--	9.0	--	8.5	10.0	--	8.0
29	--	13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	9.0	--	8.0
30	--	14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	9.0	--	8.0
31	--	13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	8.5	--	8.0
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	9.5	--	6.0	10.5	--	7.0

DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	9.0	--	7.5	14.0	--	11.0	--	--	--	--	--	--	--	--	--	22.0	--	18.0
2	10.0	--	8.0	14.0	--	12.0	--	--	--	--	--	--	--	--	--	22.0	--	18.0
3	10.0	--	8.0	14.0	--	12.0	--	--	--	--	24.0	--	--	--	--	22.0	--	18.0
4	11.0	--	9.0	13.5	--	12.0	--	--	--	--	--	--	--	25.0	--	22.5	--	18.5
5	12.0	--	9.5	14.0	--	11.0	--	--	--	--	--	--	--	--	--	21.5	--	19.0
6	12.0	--	10.0	14.5	--	12.0	--	22.0	--	--	--	--	--	25.0	--	22.0	--	18.0
7	12.0	--	9.5	14.5	--	12.0	--	18.0	--	--	--	--	--	--	--	22.0	--	19.0
8	12.0	--	9.5	15.0	--	12.0	--	24.0	--	--	--	--	--	--	--	22.0	--	18.0
9	12.0	--	10.0	15.0	--	12.5	--	--	--	--	--	--	--	--	--	22.5	--	18.5
10	13.0	--	11.0	16.0	--	13.0	--	22.0	--	--	--	--	--	--	--	22.5	--	19.0
11	13.0	--	11.0	17.0	--	13.0	--	--	--	--	--	--	--	--	--	22.0	--	19.0
12	12.0	--	11.0	17.0	--	13.5	--	23.0	--	--	--	--	--	--	--	22.0	--	18.5
13	11.0	--	11.0	17.5	--	14.0	--	20.0	--	--	--	--	--	--	--	20.5	--	18.5
14	12.0	--	10.0	18.0	--	15.0	--	--	--	--	24.0	--	--	--	--	20.0	--	18.0
15	12.0	--	10.0	17.0	--	14.5	--	20.0	--	--	--	--	25.0	--	23.0	21.5	--	18.0
16	12.0	--	10.0	18.0	--	15.0	--	--	--	--	23.0	--	23.5	--	20.5	21.0	--	17.5
17	11.0	--	10.0	18.5	--	15.0	--	20.0	--	--	24.0	--	23.5	--	20.0	19.5	--	18.0
18	10.0	--	9.0	18.5	--	16.0	--	--	--	--	--	--	23.0	--	19.0	20.0	--	18.5
19	11.0	--	9.0	18.0	--	16.0	--	--	--	--	22.0	--	23.0	--	18.5	19.5	--	19.5
20	12.0	--	9.0	17.0	--	14.5	--	24.0	--	--	--	--	22.0	--	19.0	19.5	--	18.0
21	12.0	--	10.0	18.0	--	14.0	--	--	--	--	23.0	--	22.0	--	19.0	20.0	--	17.0
22	13.0	--	10.5	--	--	--	--	23.0	--	--	--	--	21.5	--	18.0	19.5	--	17.0
23	13.0	--	10.5	--	--	--	--	--	--	--	23.0	--	21.0	--	18.0	19.0	--	17.0
24	14.0	--	11.0	--	--	--	--	--	--	--	--	--	19.0	--	18.0	18.0	--	16.5
25	14.0	--	11.5	--	--	--	--	24.0	--	--	23.0	--	21.5	--	17.5	18.5	--	16.0
26	15.0	--	12.0	--	--	--	--	--	--	--	--	--	21.5	--	18.0	19.0	--	16.0
27	14.5	--	12.5	17.0	--	14.0	--	--	--	--	27.0	--	21.5	--	18.5	19.0	--	16.0
28	14.0	--	12.0	16.0	--	14.5	--	--	--	--	--	--	22.5	--	18.0	19.0	--	16.5
29	13.5	--	11.0	--	21.0	--	--	22.0	--	--	27.0	--	22.5	--	19.0	19.5	--	17.0
30	13.5	--	11.0	--	--	--	--	22.0	--	--	--	--	22.5	--	19.5	19.0	--	17.0
31	--	--	--	--	--	--	--	--	--	--	--	--	22.5	--	19.5	--	--	--
MONTH	15.0	--	7.5	--	--	--	--	--	--	--	--	--	--	--	--	22.5	--	16.0

## KLAMATH RIVER BASIN

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	684	13	24	744	3	6.0	1400	13	49
2	655	13	23	834	2	4.5	1360	11	40
3	631	8	14	900	4	9.7	1430	9	35
4	621	6	10	1440	8	31	1970	33	176
5	607	6	9.8	2220	7	42	1680	22	100
6	603	5	8.1	1610	8	35	1650	17	76
7	598	5	8.1	1440	8	31	1600	15	65
8	593	8	13	1710	8	37	1420	14	54
9	636	14	24	1620	5	22	1100	14	42
10	739	16	32	1920	31	171	1130	14	43
11	829	11	25	2370	82	527	1220	14	46
12	1080	19	55	2600	69	505	1350	14	51
13	957	20	52	2110	19	108	1300	14	49
14	875	13	31	2720	91	799	1240	15	50
15	839	11	25	3210	93	837	1160	16	50
16	1000	7	19	3040	100	821	1730	34	204
17	1260	8	27	3440	73	678	15900	1930	103000
18	1100	9	27	2700	17	124	16600	1480	68100
19	984	11	29	2630	60	438	23100	1250	79300
20	910	16	39	2600	31	218	17200	540	25100
21	860	10	23	2240	25	151	11600	404	12700
22	824	14	31	2160	23	134	20500	950	53000
23	804	6	13	1970	14	74	17900	490	23700
24	799	10	22	1800	9	44	13500	320	11700
25	780	7	15	1680	8	36	9640	290	7550
26	760	6	12	1590	5	21	7480	290	5860
27	775	2	4.2	1630	12	53	6610	285	5090
28	744	2	4.0	1680	18	82	6330	280	4790
29	749	7	14	1580	16	68	5380	270	3920
30	729	6	12	1480	14	56	4760	270	3470
31	714	4	7.7	--	--	--	4300	265	3080
TOTAL	24739	--	652.9	59668	--	6163.2	203540	--	411490

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	3880	265	2780	5680	305	4680	11900	465	14900
2	3640	250	2460	5450	280	4120	10400	400	11200
3	3460	250	2340	5280	250	3560	9500	348	8930
4	3230	249	2170	5670	210	3210	9100	294	7220
5	3040	220	1810	12300	563	19800	8210	239	5300
6	2900	200	1570	11600	580	18200	8170	189	4170
7	2780	200	1500	10300	508	14100	8010	145	3140
8	2660	200	1440	9430	400	10200	7640	124	2560
9	2900	195	1530	8960	330	7980	7130	110	2120
10	3130	190	1610	12000	470	15500	7290	111	2180
11	7020	427	10600	12000	378	12200	7990	128	2760
12	21400	413	23600	10700	350	10100	7440	120	2410
13	27900	543	41500	9170	325	8050	6870	103	1910
14	21300	375	21600	8470	284	6490	6420	95	1650
15	14400	365	14200	8110	290	6350	6040	85	1390
16	31600	1100	104000	7380	296	5900	5880	81	1290
17	32100	656	57900	6870	270	5010	5970	83	1340
18	25500	662	46000	6460	235	4100	5610	76	1150
19	22800	605	37200	6110	239	3940	5740	78	1210
20	16200	500	21900	5770	263	4100	6420	94	1630
21	12700	460	15800	5510	249	3700	6480	95	1660
22	10100	440	12000	5350	205	2960	6480	95	1660
23	8450	420	9580	5170	200	2790	6260	88	1490
24	7720	400	8340	6220	403	7180	6310	91	1550
25	7950	395	8480	12900	807	27900	6550	99	1750
26	7060	400	7620	12900	721	25100	6740	101	1840
27	6390	400	6900	16000	711	30700	6700	100	1810
28	6060	400	6540	13700	549	20300	6420	95	1650
29	5970	380	6130	--	--	--	6000	85	1380
30	6040	355	5790	--	--	--	6460	95	1660
31	6060	340	5560	--	--	--	7500	120	2430
TOTAL	336340	--	490450	245460	--	288220	223630	--	97340

## KLAMATH RIVER BASIN

595

11530000 TRINITY RIVER AT HOOPA. CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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	6980	108	2040	4610	55	685	2680	19	137
2	6420	95	1650	4450	52	625	2410	14	91
3	6070	85	1390	4400	51	606	2220	13	78
4	5860	81	1280	4340	50	586	2110	11	63
5	5890	82	1300	4090	45	497	2000	8	43
6	6290	88	1490	3850	39	405	1990	3	16
7	6530	99	1750	3790	38	389	2010	6	39
8	6390	94	1620	3690	36	359	1970	9	48
9	6310	91	1550	3650	36	355	1940	8	42
10	6420	95	1650	3580	34	329	1860	6	30
11	6720	99	1800	3510	33	313	1750	3	14
12	6770	102	1860	3590	34	330	1680	5	23
13	6610	100	1780	3900	41	432	1650	5	22
14	6240	88	1480	4310	50	582	1580	5	21
15	5720	78	1200	4540	54	662	1490	4	16
16	5500	75	1110	4450	52	625	1430	4	15
17	5680	77	1180	4450	52	625	1430	4	15
18	5410	72	1050	4470	52	628	1390	4	15
19	5060	64	874	4120	46	512	1350	3	11
20	4700	57	723	3620	35	342	1320	3	11
21	4470	53	640	3270	28	247	1340	3	11
22	4370	50	590	3140	27	229	1340	4	14
23	4560	54	665	3050	26	214	1310	4	14
24	4730	57	728	3190	27	233	1260	3	10
25	4890	61	805	3580	34	329	1200	3	9.7
26	5320	69	991	2950	23	183	1200	3	9.7
27	5910	83	1320	2610	18	127	1200	3	9.7
28	5810	81	1270	2520	16	109	1160	3	9.4
29	5400	72	1050	2520	16	109	1120	4	12
30	4970	61	819	2600	17	119	1090	5	15
31	--	--	--	2630	18	128	--	--	--
TOTAL	172000	--	37655	113470	--	11914	48460	--	850.5

DAY	JULY			AUGUST			SEPTEMBER		
	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	1050	6	17	670	5	9.0	448	10	12
2	1000	7	19	598	4	6.5	452	9	11
3	962	8	21	547	5	7.4	468	8	10
4	941	8	20	529	6	8.6	472	8	10
5	931	7	18	511	4	5.5	472	8	10
6	916	7	17	507	2	2.7	472	6	7.6
7	890	6	14	502	2	2.7	468	5	6.3
8	870	6	14	498	2	2.7	481	6	7.8
9	844	6	14	494	4	5.3	481	7	9.1
10	824	5	11	494	4	5.3	481	7	9.1
11	799	5	11	494	4	5.3	477	8	10
12	789	5	11	489	6	7.9	472	8	10
13	799	4	8.6	481	6	7.8	468	9	11
14	785	4	8.5	477	8	10	468	7	8.8
15	749	4	8.1	472	8	10	468	6	7.6
16	714	4	7.7	464	9	11	468	6	7.6
17	699	4	7.5	460	6	7.5	468	7	8.8
18	689	3	5.6	456	2	2.5	468	8	10
19	689	2	3.7	456	2	2.5	524	10	14
20	675	2	3.6	456	2	2.5	699	15	28
21	675	2	3.6	452	2	2.4	744	18	36
22	665	3	5.4	448	2	2.4	734	16	32
23	650	3	5.3	444	2	2.4	952	29	75
24	636	2	3.4	448	2	2.4	1170	30	95
25	621	2	3.4	460	3	3.7	1170	28	88
26	607	2	3.3	472	3	3.8	931	26	65
27	593	3	4.8	477	3	3.9	780	14	29
28	589	3	4.8	464	3	3.8	699	8	15
29	650	24	42	460	7	8.7	655	9	16
30	799	10	22	460	11	14	626	11	19
31	734	6	12	452	10	12	--	--	--
TOTAL	23834	--	350.3	15092	--	182.2	18136	--	678.7

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

1484369

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

1345954.8

## KLAMATH RIVER BASIN

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
DEC. 21...	1430	7.0	10800	325	9480	17	25	34	44	50
JAN. 19...	1540	7.0	21800	571	33600	13	21	31	40	48
FEB. 11...	2110	8.0	11400	364	11200	--	--	--	--	--
MAR. 07...	1550	8.0	7740	150	3140	17	27	36	45	51
APR. 10...	1700	--	6480	73	1280	--	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC. 21...	58	--	67	--	84	--	99	--	100	--
JAN. 19...	54	--	63	--	79	--	97	--	100	--
FEB. 11...	--	45	--	50	--	63	--	86	--	100
MAR. 07...	--	53	--	58	--	65	--	84	--	100
APR. 10...	--	55	--	59	--	65	--	83	--	100

KLAMATH RIVER BASIN

597

11530300 BLUE CREEK NEAR KLAMATH, CALIF.

LOCATION.--Lat 41°27'00", long 123°53'40", in NE¼NW¼ sec.12, T.12 N., R.2 E., Humboldt County, temperature recorder at gaging station on left bank, 600 ft downstream from West Fork, 3.0 miles upstream from mouth, and 9.2 miles southeast of Klamath.

DRAINAGE AREA.--120 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1973.

EXTREMES.--1972-73:

Water temperatures: Maximum, 20.5°C on several days during June to August; minimum, 3.5°C Dec. 11, 12.

Period of record:

Water temperatures: Maximum, 27.0°C July 23, 1970; minimum, 3.5°C Dec. 11, 12, 1972.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	14.5	12.5	12.0	9.0	8.5	7.0	6.5	8.0	7.0	7.5	6.5
2	16.5	14.0	13.0	12.0	9.5	9.0	7.5	7.0	8.5	7.5	7.5	6.0
3	16.5	14.0	12.5	11.5	9.5	8.0	7.0	6.5	8.5	8.0	7.0	6.5
4	16.0	14.5	12.0	11.5	8.0	7.0	6.5	6.5	8.5	8.0	7.5	6.5
5	16.5	14.5	11.5	10.5	7.0	5.5	7.0	6.5	9.0	8.5	7.5	6.0
6	16.0	13.5	11.5	11.0	6.5	5.5	7.0	6.5	9.5	8.5	8.0	7.0
7	16.5	14.0	11.5	11.0	6.5	5.5	6.5	6.5	9.5	8.5	7.5	6.5
8	15.5	14.0	11.5	11.0	5.5	4.5	7.0	6.5	9.5	9.0	9.0	7.5
9	15.0	14.0	11.5	11.0	5.0	4.0	7.5	7.0	9.5	9.0	9.0	8.5
10	15.0	13.5	11.5	10.5	4.5	4.0	7.5	7.5	9.0	7.5	9.0	8.0
11	14.5	13.5	11.5	10.5	4.5	3.5	7.5	7.5	8.0	7.5	9.0	7.5
12	15.0	13.5	10.5	10.0	5.5	3.5	8.5	7.5	8.0	7.5	8.0	7.0
13	16.0	14.0	11.5	10.5	5.5	4.5	9.0	8.5	8.0	7.0	8.0	7.5
14	15.5	14.0	11.0	10.0	5.0	4.0	8.5	8.0	8.0	7.5	8.5	6.5
15	15.0	14.0	10.5	9.5	6.0	5.0	8.5	8.5	8.0	7.0	9.0	7.0
16	15.5	13.5	10.5	9.5	6.0	4.5	8.5	8.0	8.0	7.0	8.0	7.0
17	15.5	13.5	10.0	9.0	7.5	5.5	8.5	8.0	8.5	7.0	7.5	6.5
18	15.5	13.5	10.5	9.5	8.5	7.5	8.5	7.0	8.0	6.5	8.0	6.5
19	15.0	13.5	9.5	9.0	9.0	8.5	7.5	7.0	8.0	6.5	7.5	6.0
20	15.0	13.5	9.5	8.5	9.0	8.5	7.5	7.0	8.0	6.5	7.5	6.0
21	15.0	13.5	10.0	9.0	10.0	9.0	8.5	7.5	8.0	7.5	7.0	6.5
22	14.5	14.0	9.5	8.5	9.5	9.5	8.0	7.5	7.5	7.0	9.0	6.5
23	15.0	13.5	10.0	9.0	9.5	9.0	8.0	7.5	8.0	7.0	9.5	7.0
24	14.5	13.0	9.5	8.5	9.5	8.5	8.5	8.0	8.5	7.5	10.0	7.5
25	14.0	13.0	10.0	9.0	9.0	8.5	8.0	7.5	8.5	7.5	10.5	8.5
26	14.0	12.5	10.5	9.5	9.0	8.0	7.5	6.5	8.0	7.5	10.0	8.5
27	13.5	12.0	10.0	8.5	9.0	8.5	7.5	7.0	8.0	7.0	8.5	7.5
28	13.0	12.0	9.5	8.5	8.5	7.5	8.0	7.0	8.0	7.5	9.5	7.5
29	13.0	11.5	9.5	8.5	7.5	6.5	8.0	7.5	---	---	8.5	7.0
30	12.0	11.0	9.0	8.5	7.5	7.0	8.0	7.5	---	---	8.5	8.0
31	12.5	11.0	---	---	7.0	6.5	7.5	7.0	---	---	8.0	7.0
MONTH	16.5	11.0	13.0	8.5	10.0	3.5	9.0	6.5	9.5	6.5	10.5	6.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	6.5	12.5	9.0	16.5	13.5	18.5	14.0	20.0	16.5	18.5	15.0
2	9.5	7.0	12.5	9.5	16.5	12.0	19.0	14.0	20.5	16.0	18.5	15.0
3	10.0	7.5	12.5	9.5	17.0	12.5	19.0	14.5	20.5	16.5	18.5	15.0
4	10.5	8.0	11.5	10.0	17.0	12.5	19.5	15.0	20.5	16.5	19.0	15.5
5	11.0	8.5	13.0	9.5	17.5	13.0	18.0	15.5	20.5	16.5	18.0	16.0
6	11.0	9.0	13.5	10.0	17.5	13.5	19.0	15.0	20.5	16.5	19.0	16.0
7	11.0	8.5	12.5	10.5	18.0	13.5	19.0	15.0	20.0	16.5	19.5	16.5
8	11.0	8.5	14.0	10.0	18.5	13.5	19.5	15.0	20.0	16.5	19.5	15.5
9	11.0	9.0	13.0	11.0	17.5	14.0	20.0	15.0	20.0	16.5	19.0	16.0
10	12.0	9.5	14.5	10.5	17.5	13.5	19.5	16.0	20.5	17.0	19.0	16.0
11	12.0	9.5	14.5	10.5	17.5	13.0	20.0	15.5	20.0	16.5	19.0	16.0
12	10.5	9.5	14.5	10.5	15.0	13.5	19.5	16.0	20.5	16.5	19.0	16.0
13	10.0	9.0	15.0	11.0	15.0	13.0	20.0	16.0	20.5	16.5	18.0	16.0
14	10.5	9.0	15.5	11.5	14.5	12.0	20.0	16.0	20.5	16.0	19.0	16.0
15	11.0	9.0	15.0	11.5	16.0	12.5	19.5	16.0	20.5	16.5	18.5	15.5
16	10.0	9.5	16.0	11.5	15.0	13.5	18.5	16.0	20.5	16.5	18.5	15.5
17	9.5	8.5	16.0	12.0	17.0	13.0	19.5	15.5	20.5	16.5	18.5	15.5
18	8.5	7.5	16.5	12.0	17.0	13.0	19.0	15.5	20.5	16.5	17.0	16.5
19	10.0	8.0	14.5	12.5	18.0	13.0	19.0	15.5	19.5	16.0	17.0	16.0
20	11.0	8.0	15.5	12.0	18.5	14.0	17.0	15.5	20.0	16.0	16.5	15.5
21	11.5	8.0	15.5	11.5	18.5	14.5	18.5	15.0	20.0	16.0	17.5	15.0
22	12.5	9.0	15.5	12.0	17.5	15.0	18.5	15.0	19.5	15.0	16.5	15.5
23	12.0	9.0	14.0	12.5	17.5	14.5	18.0	15.0	19.5	15.5	15.5	14.5
24	12.5	9.0	13.0	12.0	18.0	14.0	19.0	14.5	17.5	16.0	15.0	14.5
25	12.5	9.5	14.5	11.0	18.5	15.5	19.5	15.0	19.5	16.0	16.0	13.5
26	13.0	9.5	14.0	10.5	20.0	15.5	20.0	15.5	19.5	16.0	16.5	13.5
27	12.5	10.0	16.0	11.5	20.5	16.0	20.5	16.5	19.0	16.5	17.0	14.0
28	12.0	9.5	16.5	12.0	20.0	16.0	20.0	16.0	18.5	16.0	17.5	14.5
29	12.0	8.5	17.0	13.0	19.0	15.5	20.5	15.5	17.0	16.5	17.5	14.5
30	12.5	8.5	15.5	12.5	19.0	15.0	20.5	16.0	18.0	16.0	16.0	15.0
31	---	---	16.5	12.5	---	---	20.0	16.5	18.5	16.5	---	---
MONTH	13.0	6.5	17.0	9.0	20.5	12.0	20.5	14.0	20.5	15.0	19.5	13.5

## KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.  
(International Hydrological Decade Station)

LOCATION.--Lat 41°30'45", long 123°58'30", in SW $\frac{1}{4}$  sec.17, T.13 N., R.2 E., Del Norte County, at gaging station 2.8 miles upstream from Turwar Creek and 3.3 miles east of Klamath.

DRAINAGE AREA.--12,100 sq mi, approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1973.

Water temperatures: November 1965 to September 1973.

Sediment records: Water years 1955-56 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 22.5°C on several days during July.

Period of record:

Water temperatures: Maximum (1966-68, 1970-71, 1972-73), 25.5°C on several days in 1968; minimum (1965-70, 1971-72), 2.5°C Feb. 2, 1972.

REMARKS.--Selected chemical-quality samples collected by California Department of Water Resources. No thermograph record Nov. 24 to Feb. 4, Feb. 22 to June 30, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (Ca) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)
OCT. 03...	0830	E3800	--	23	20	20	9.5	13	2.1	115	0
NOV. 13...	1530	--	7420	23	30	18	8.0	8.7	1.4	97	0
DEC. 04...	1515	--	9140	23	30	15	7.6	9.2	1.5	89	0
JAN. 16...	1515	--	75100	14	60	12	4.6	3.8	.7	59	0
FEB. 05...	1430	--	27400	17	20	17	6.0	5.1	.9	77	0
MAR. 05...	1515	--	25400	17	20	16	7.0	4.5	.8	83	0
APR. 02...	1430	--	19300	15	20	15	6.4	4.4	.8	78	0
MAY 22...	1435	--	10900	13	30	13	5.2	3.3	.7	66	0
JUNE 20...	1215	--	4230	4.3	20	29	9.2	8.2	1.3	129	0
JULY 09...	1420	--	3000	13	10	20	7.7	7.1	1.4	99	0
AUG. 07...	0945	E2060	--	14	10	21	8.4	8.6	1.5	107	0
SEP. 12...	0835	--	1820	16	10	25	8.7	9.2	1.7	113	0

DATE	ALKA- LITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE. (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
OCT. 03...	94	17	6.5	.2	.29	.13	149	.20	--	89	0
NOV. 13...	80	12	5.2	.1	.42	.14	126	.17	2520	78	0
DEC. 04...	73	13	4.0	.2	.54	.13	120	.16	2960	69	0
JAN. 16...	48	6.3	2.0	.1	.13	.33	73	.10	14800	49	1
FEB. 05...	63	9.7	2.3	.3	.22	.24	97	.13	7180	67	4
MAR. 05...	68	9.0	2.0	.1	.12	.12	98	.13	6720	69	1
APR. 02...	64	8.3	2.6	.0	.03	.08	91	.12	4740	64	0
MAY 22...	54	5.6	1.4	.1	.00	.03	75	.10	2210	54	0
JUNE 20...	106	15	7.8	.1	.00	.00	139	.19	1590	110	5
JULY 09...	81	13	4.1	.0	.00	.04	115	.16	931	82	1
AUG. 07...	88	12	4.4	.1	.00	.06	123	.17	--	87	0
SEP. 12...	93	12	5.2	.2	.01	.09	134	.18	658	98	6

E Estimated.



## KLAMATH RIVER BASIN

599

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED LITHIUM (LI) (UG/L)	DIS- SOLVED STRON- TIUM (SR) (UG/L)
OCT. 03...	24	.6	230	7.6	16.0	4	8.9	4.6	100	0	130
NOV. 13...	19	.4	182	7.6	10.5	10	10.4	3.9	90	0	120
DEC. 04...	22	.5	180	7.5	7.0	20	11.7	4.5	70	0	180
JAN. 16...	14	.2	107	7.4	7.0	200	11.5	3.8	40	0	90
FEB. 05...	14	.3	147	7.4	7.5	60	11.7	4.9	30	0	90
MAR. 05...	12	.2	154	7.5	8.0	30	10.1	4.2	0	0	80
APR. 02...	13	.2	143	7.6	9.0	30	11.1	3.1	40	0	110
MAY 22...	12	.2	116	7.5	17.0	9	9.9	3.3	30	0	80
JUNE 20...	14	.3	250	8.6	27.5	1	11.2	.5	120	0	380
JULY 09...	16	.3	192	8.1	21.0	3	9.9	1.3	60	0	150
AUG. 07...	17	.4	205	7.7	20.0	1	8.5	3.4	90	0	140
SEP. 12...	17	.4	209	--	18.0	2	9.8	--	80	0	140

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE D GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDE D GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE D GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)
FEB. 16...	1150	23500	140	34	<1.5	1.6	1.9	1.1	1.5	.9	.03	.08

## KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	MAX	OCT DAILY	MIN	MAX	NOV DAILY	MIN	MAX	DEC DAILY	MIN	MAX	JAN DAILY	MIN	MAX	FEB DAILY	MIN	MAX	MAR DAILY	MIN
1	15.0	--	14.0	11.0	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--
2	15.5	--	14.5	11.0	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--
3	16.0	--	15.0	11.0	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--
4	16.0	--	15.0	11.5	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--
5	16.0	--	15.0	11.5	--	11.5	--	--	--	--	--	--	8.5	--	8.5	--	--	--
6	16.5	--	15.0	11.5	--	11.5	--	--	--	--	--	--	8.5	--	8.5	--	--	--
7	16.0	--	14.5	11.5	--	11.0	--	--	--	--	--	--	8.5	--	8.5	--	--	--
8	16.0	--	15.0	11.0	--	11.0	--	--	--	--	--	--	8.5	--	8.5	--	--	--
9	15.5	--	15.0	11.5	--	11.0	--	--	--	3.5	--	--	8.5	--	8.0	--	--	--
10	15.0	--	15.0	11.5	--	11.0	--	--	--	--	--	--	8.0	--	8.0	--	--	--
11	15.5	--	14.5	11.0	--	11.0	--	--	--	--	--	--	8.0	--	8.0	--	--	--
12	15.0	--	15.0	11.0	--	10.5	--	--	--	--	--	--	8.0	--	8.0	--	--	--
13	16.0	--	15.0	11.0	--	11.0	--	--	--	--	--	--	8.0	--	8.0	--	--	--
14	16.0	--	15.5	11.0	--	10.5	--	--	--	--	--	--	8.0	--	8.0	--	--	--
15	15.5	--	15.0	11.0	--	10.0	--	--	--	--	--	--	8.0	--	7.5	--	--	--
16	15.5	--	15.0	10.5	--	10.0	--	--	--	--	--	--	7.5	--	7.5	--	--	--
17	15.5	--	15.0	10.0	--	10.0	--	--	--	--	--	--	8.0	--	7.5	--	--	--
18	15.5	--	14.5	10.0	--	9.5	--	--	--	--	--	--	8.0	--	7.5	--	--	--
19	15.5	--	15.0	9.5	--	9.5	--	--	--	--	--	--	7.5	--	7.0	--	--	--
20	15.0	--	14.5	9.5	--	9.5	--	--	--	--	--	--	7.5	--	7.0	--	--	--
21	15.0	--	14.5	9.5	--	9.5	--	--	--	--	--	--	7.5	--	7.0	--	--	--
22	15.0	--	14.5	9.5	--	9.0	--	--	--	--	--	--	--	--	--	--	--	--
23	14.5	--	14.0	9.5	--	9.0	--	--	--	5.5	--	--	--	--	--	--	--	--
24	14.5	--	14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25	14.0	--	13.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26	13.5	--	13.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27	13.5	--	13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28	13.0	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	12.0	--	11.5	--	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--
30	12.0	--	11.5	--	--	--	--	--	--	7.0	--	--	--	--	--	--	--	--
31	11.5	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	16.5	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

DAY	MAX	APR DAILY	MIN	MAX	MAY DAILY	MIN	MAX	JUN DAILY	MIN	MAX	JUL DAILY	MIN	MAX	AUG DAILY	MIN	MAX	SEP DAILY	MIN
1	--	--	--	--	--	--	--	--	--	22.5	--	22.0	22.0	--	21.5	17.5	--	17.5
2	--	--	--	--	--	--	--	--	--	22.0	--	21.5	22.0	--	21.5	17.5	--	17.5
3	--	--	--	--	--	--	--	--	--	21.5	--	21.5	22.0	--	21.0	17.5	--	17.0
4	--	--	--	--	--	--	--	--	--	22.0	--	21.5	22.0	--	21.5	17.0	--	17.0
5	--	--	--	--	--	--	--	--	--	22.0	--	22.0	21.5	--	21.5	17.0	--	17.0
6	--	--	--	--	--	--	--	--	--	22.0	--	22.0	21.5	--	21.5	17.0	--	17.0
7	--	--	--	--	--	--	--	--	--	22.0	--	21.5	21.5	--	21.0	17.0	--	17.0
8	--	--	--	--	--	--	--	--	--	21.5	--	21.5	21.0	--	21.0	17.0	--	17.0
9	--	11.0	--	--	--	--	--	--	--	22.0	--	21.5	21.0	--	21.0	17.0	--	17.0
10	--	--	--	--	--	--	--	--	--	22.0	--	22.0	21.0	--	20.5	17.0	--	16.5
11	--	--	--	--	--	--	--	--	--	22.0	--	21.5	21.0	--	20.5	16.5	--	16.5
12	--	--	--	--	--	--	--	--	--	22.5	--	22.0	20.5	--	20.5	16.5	--	16.5
13	--	--	--	--	--	--	--	--	--	22.5	--	22.5	20.5	--	20.0	16.5	--	16.5
14	--	--	--	--	--	--	--	--	--	22.5	--	22.5	21.0	--	20.5	16.5	--	16.5
15	--	--	--	--	--	--	--	--	--	22.5	--	22.5	20.5	--	20.5	16.5	--	16.0
16	--	--	--	--	16.5	--	--	--	--	22.5	--	22.0	20.5	--	20.0	16.0	--	16.0
17	--	--	--	--	--	--	--	--	--	22.0	--	22.0	20.0	--	20.0	16.0	--	16.0
18	--	--	--	--	--	--	--	--	--	22.0	--	21.5	20.0	--	19.5	16.0	--	16.0
19	--	--	--	--	--	--	--	--	--	22.0	--	21.5	19.5	--	19.5	16.0	--	16.0
20	--	--	--	--	--	--	--	--	--	21.5	--	21.0	19.0	--	19.0	16.0	--	15.5
21	--	--	--	--	--	--	--	--	--	21.5	--	20.5	19.0	--	18.5	15.5	--	15.5
22	--	--	--	--	--	--	--	--	--	21.5	--	21.0	18.5	--	18.5	15.5	--	15.5
23	--	--	--	--	--	--	--	--	--	21.0	--	21.0	18.5	--	18.5	15.0	--	15.0
24	--	--	--	--	--	--	--	--	--	21.0	--	20.5	18.5	--	18.0	15.0	--	15.0
25	--	--	--	--	--	--	--	--	--	21.5	--	20.5	18.0	--	18.0	15.0	--	15.0
26	--	--	--	--	--	--	--	--	--	22.5	--	21.5	18.0	--	18.0	15.0	--	14.5
27	--	--	--	--	--	--	--	--	--	22.5	--	22.5	18.0	--	18.0	14.5	--	14.5
28	--	--	--	--	--	--	--	21.5	--	22.5	--	22.5	18.0	--	18.0	14.5	--	14.5
29	--	--	--	--	--	--	--	22.5	--	22.5	--	22.5	18.0	--	17.5	14.5	--	14.5
30	--	--	--	--	--	--	--	22.5	--	22.0	--	22.0	17.5	--	17.5	14.5	--	14.0
31	--	--	--	--	--	--	--	22.0	--	22.0	--	22.0	17.5	--	17.5	--	--	--
MONTH	--	--	--	--	--	--	--	22.5	--	20.5	--	22.0	22.0	--	17.5	17.5	--	14.0

## SMITH RIVER BASIN

601

11532500 SMITH RIVER NEAR CRESCENT CITY, CALIF.

LOCATION.--Lat 41°47'22", long 124°03'14", in SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec.10, T.16 N., R.1 E. (unsurveyed), Del Norte County, Six Rivers National Forest, at gaging station, 0.5 mile downstream from South Fork, and 8 miles east of Crescent City.

DRAINAGE AREA.--609 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1973.  
Water temperatures: October 1965 to September 1973.  
Sediment records: Water years 1955-56 (partial-record station).

EXTREMES.--1972-73:

Water temperatures: Maximum, 24.5°C July 26, 27; minimum, 0.5°C Dec. 10, 11.

Period of record:

Water temperatures: Maximum (1966-69, 1970-73), 24.5°C July 15, 1972, July 26, 27, 1973; minimum (1966-70, 1971-73), 0.5°C Dec. 10, 11, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA+MG) (MG/L)
OCT. 03...	0715	228	3.0	89	0	73	4.8	78
NOV. 14...	0845	1090	--	--	--	--	--	--
DEC. 05...	0815	1980	--	--	--	--	--	--
JAN. 17...	0815	17400	1.8	43	0	35	4.6	39
FEB. 05...	1600	7000	--	--	--	--	--	--
MAR. 06...	0750	4920	--	--	--	--	--	--
APR. 02...	1535	4580	--	--	--	--	--	--
MAY 23...	0605	879	--	--	--	--	--	--
JUNE 20...	0715	574	--	--	--	--	--	--
JULY 10...	0700	360	--	--	--	--	--	--
AUG. 07...	0625	269	--	--	--	--	--	--
SEP. 12...	0710	220	--	--	--	--	--	--

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT. 03...	5	.1	164	7.5	15.0	0	9.0	0
NOV. 14...	--	--	117	7.5	9.0	1	11.5	--
DEC. 05...	--	--	106	8.0	5.0	1	12.9	--
JAN. 17...	4	.1	78	7.3	7.5	75	12.4	0
FEB. 05...	--	--	84	7.3	8.5	15	12.1	--
MAR. 06...	--	--	87	7.6	7.0	5	11.5	--
APR. 02...	--	--	89	7.4	8.5	2	11.7	--
MAY 23...	--	--	113	7.4	14.0	2	10.0	--
JUNE 20...	--	--	125	7.8	16.0	0	9.9	--
JULY 10...	--	--	143	7.9	18.0	0	9.5	--
AUG. 07...	--	--	154	7.7	19.0	0	8.9	--
SEP. 12...	--	--	156	7.7	16.0	0	10.2	--

## SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CALIF.---Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	14.0	10.0	9.0	7.5	6.5	6.0	5.0	6.5	6.0	8.0	7.5
2	15.5	14.0	11.0	10.0	8.0	7.5	6.5	5.5	7.0	6.5	7.5	7.0
3	16.0	14.5	11.5	11.0	8.0	7.5	6.0	5.5	8.0	7.0	7.5	7.0
4	15.5	14.5	11.5	10.5	7.5	6.0	5.5	5.0	8.0	7.5	8.0	7.5
5	15.0	13.5	10.5	9.5	6.0	4.5	5.5	4.5	8.0	7.5	7.5	7.0
6	15.0	13.0	10.0	9.0	4.5	4.5	5.5	5.0	8.0	7.5	8.0	7.5
7	15.0	13.0	9.5	9.0	4.5	3.5	5.0	4.5	8.0	7.5	8.0	7.5
8	14.5	13.5	10.0	9.0	3.5	2.0	5.0	4.5	8.5	8.0	8.5	7.5
9	14.0	13.5	10.0	9.5	2.0	1.0	6.0	5.0	8.5	8.0	9.0	8.0
10	14.0	13.5	10.0	9.5	1.5	0.5	7.0	6.0	8.5	7.5	9.0	8.0
11	13.5	12.0	10.0	9.0	1.5	0.5	7.5	7.0	7.5	7.0	8.5	7.0
12	13.0	11.0	9.5	8.5	3.0	1.5	8.0	7.5	7.5	7.0	8.0	7.0
13	13.5	12.0	9.5	9.0	3.0	3.0	9.0	8.0	7.5	7.0	8.0	7.5
14	14.0	12.5	9.5	9.0	3.0	2.5	8.5	7.5	8.0	7.5	8.5	7.0
15	13.5	12.5	9.0	8.0	4.0	2.5	8.0	7.5	7.5	7.0	9.0	7.0
16	13.5	12.5	9.0	8.5	6.0	4.0	8.0	7.5	7.5	7.0	8.5	7.5
17	13.5	12.5	9.0	7.5	8.0	6.0	7.5	7.5	8.0	7.5	7.5	6.5
18	13.0	12.0	8.5	8.0	9.0	7.5	7.5	7.0	7.5	6.5	8.0	7.0
19	13.0	12.5	8.5	8.0	9.0	8.5	7.0	6.5	7.0	6.0	8.0	6.5
20	13.0	12.0	8.5	8.0	9.0	8.5	6.5	6.0	7.0	6.0	7.5	6.5
21	13.0	11.5	9.0	8.5	10.0	9.0	7.0	6.5	7.0	6.0	7.5	7.0
22	13.0	12.5	9.0	8.0	9.0	8.5	7.0	6.0	7.0	6.5	9.0	7.0
23	13.0	12.0	8.5	7.5	8.5	8.5	6.5	5.5	7.5	6.5	9.0	7.0
24	12.5	11.0	8.5	7.5	8.5	7.5	7.0	6.5	8.5	7.5	9.5	7.5
25	11.5	11.0	9.0	8.0	8.0	7.0	7.0	6.5	8.5	8.0	10.5	8.5
26	11.5	11.0	9.5	9.0	7.5	6.5	6.5	5.5	8.5	8.0	10.0	8.5
27	11.0	9.5	9.5	8.0	8.0	7.5	6.5	6.0	8.0	7.5	9.0	7.5
28	10.0	9.5	9.0	8.0	7.5	6.5	7.0	6.0	8.5	8.0	9.0	7.5
29	10.0	9.5	8.5	8.0	6.5	5.5	7.5	7.0	---	---	8.5	7.5
30	9.5	8.5	8.0	7.0	7.0	6.0	7.5	7.0	---	---	8.5	8.0
31	9.0	8.0	---	---	6.5	6.0	7.0	6.5	---	---	8.5	7.5
MONTH	16.0	8.0	11.5	7.0	10.0	0.5	9.0	4.5	8.5	6.0	10.5	6.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	7.0	13.5	11.0	18.5	16.0	21.0	18.5	23.0	20.5	19.5	17.0
2	9.5	7.0	13.0	11.5	19.0	16.0	21.0	18.0	23.0	20.5	19.5	17.0
3	10.0	7.5	13.5	11.5	19.0	16.0	21.0	18.0	23.0	21.0	19.0	17.0
4	11.0	8.0	12.5	11.5	20.0	16.5	22.0	18.5	23.0	20.5	19.5	17.5
5	11.5	9.0	14.0	11.0	20.0	17.0	21.5	19.5	23.0	20.5	18.5	17.5
6	11.0	9.0	14.5	12.0	20.0	17.0	21.0	18.5	22.0	20.0	18.5	16.5
7	11.0	8.5	14.0	12.5	20.5	17.5	21.5	18.5	22.0	20.0	19.5	18.0
8	11.0	9.0	14.5	11.5	20.5	17.5	21.0	18.5	21.5	19.5	19.0	17.0
9	11.0	9.5	14.5	12.5	19.5	17.5	22.0	18.5	20.5	19.5	20.0	17.5
10	12.0	9.5	14.5	11.5	20.0	17.0	22.5	19.5	21.5	19.0	19.5	18.0
11	12.5	10.0	15.5	12.5	19.5	17.0	22.0	19.0	22.0	20.0	19.0	17.5
12	11.5	10.5	16.0	12.5	18.0	16.5	22.5	19.5	20.5	19.5	19.0	17.5
13	11.0	10.0	16.5	13.5	17.5	15.5	23.5	19.5	22.0	19.5	18.5	17.0
14	11.5	10.0	17.0	14.5	17.5	15.0	22.5	20.5	22.0	20.0	18.5	17.0
15	12.0	10.0	17.0	14.5	16.5	14.5	22.5	20.0	21.5	20.0	18.5	17.0
16	11.5	10.5	17.0	14.0	16.0	15.0	22.5	20.0	21.0	19.5	18.5	17.0
17	10.5	9.0	18.0	15.0	15.5	14.0	20.0	20.0	21.0	19.0	18.5	17.5
18	9.0	8.0	18.5	16.0	17.0	13.5	20.0	20.0	21.0	19.0	18.0	17.5
19	10.5	8.0	17.5	15.0	18.5	14.5	21.0	19.5	20.5	18.0	17.5	17.0
20	11.0	8.5	17.0	14.5	20.0	16.5	19.5	19.0	20.0	18.0	17.0	16.0
21	12.0	9.0	17.0	14.5	20.5	18.0	21.0	18.0	20.0	18.0	17.0	15.0
22	12.5	10.5	17.0	14.5	19.5	17.5	21.0	19.0	19.0	17.0	16.5	15.5
23	12.5	10.0	17.0	15.0	18.5	16.5	21.5	18.5	18.5	16.5	15.5	14.5
24	13.0	10.0	15.0	14.0	19.0	16.5	22.0	19.0	17.5	17.0	15.0	14.0
25	14.0	10.5	16.0	13.0	20.0	18.0	23.0	20.0	18.5	16.0	15.0	13.5
26	14.0	11.5	15.0	13.0	22.0	19.0	24.5	21.0	19.5	17.0	15.5	13.5
27	14.0	11.5	17.5	14.0	22.5	19.5	24.5	22.0	19.5	17.5	16.0	14.0
28	13.5	11.0	18.5	15.0	22.5	20.0	24.0	21.5	20.0	17.5	16.5	14.5
29	13.0	10.5	19.5	16.5	22.0	19.5	24.0	21.5	20.5	18.0	16.5	14.5
30	13.5	10.5	19.0	17.0	21.5	19.0	23.5	21.5	19.5	18.5	16.0	15.5
31	---	---	19.5	16.5	---	---	23.0	21.0	20.0	18.5	---	---
MONTH	14.0	7.0	19.5	11.0	22.5	13.5	24.5	18.0	23.0	16.0	20.0	13.5

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

603

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
SALTON SEA BASIN 10256000 WHITEWATER RIVER AT WHITE WATER, CALIF. (LAT 33°56'48", LONG 116°38'24") <sup>1/</sup>										
DEC. 26...	0830	7.0	--	--	50	14	15	4.4	207	0
MAR. 26...	0800	20	--	--	44	14	12	3.6	185	0
MAY 30...	1030	18	30	0	--	--	--	--	--	--
JUNE 25...	0730	13	--	--	48	13	13	4.1	195	0
SEP. 24...	0745	8.8	--	--	51	13	15	4.5	200	0

DATE	ALKALINITY AS CaCO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
DEC. 26...	170	41	5.0	.7	.86	221	.30	183	13
MAR. 26...	152	33	4.0	.6	.56	189	.26	168	16
MAY 30...	--	--	--	--	--	--	--	--	--
JUNE 25...	160	38	4.0	.6	.68	235	.32	174	14
SEP. 24...	164	41	5.0	1.1	.56	200	.27	181	17

DATE	PERCENT SODIUM	SODIUM AD- SAPP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)
DEC. 26...	15	.5	380	8.1	12.0	2	9.9	--	--
MAR. 26...	13	.4	300	8.1	9.0	60	10.4	--	--
MAY 30...	--	--	--	--	23.0	--	--	0	0
JUNE 25...	14	.4	360	8.1	18.5	2	8.7	--	--
SEP. 24...	15	.5	400	8.0	16.5	2	9.2	--	--

DATE	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
DEC. 26...	0	--	--	--	--	--	--	--	--
MAR. 26...	0	--	--	--	--	--	--	--	--
MAY 30...	--	0	0	10	10	.0	0	0	0
JUNE 25...	0	--	--	--	--	--	--	--	--
SEP. 24...	0	--	--	--	--	--	--	--	--

<sup>1/</sup> Records furnished by California Department of Water Resources.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
MOJAVE RIVER BASIN										
10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CALIF. (LAT 34°34'23", LONG 117°19'11") <sup>1/</sup>										
NOV. 29...	1315	31	--	--	42	9.1	45	3.6	181	0
JAN. 11...	--	--	--	--	43	9.1	39	3.2	179	0
31...	1320	34	--	--	37	10	43	2.9	175	0
MAR. 21...	1430	325	40	--	27	6.4	29	3.1	82	0
28...	0900	114	20	--	27	6.3	28	2.8	121	0
APR. 26...	1315	122	--	--	23	6.4	24	2.5	113	0
MAY 29...	1430	19	40	0	--	--	--	--	--	--
JULY 25...	1245	9.0	--	--	37	8.8	60	4.4	184	0

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
NOV. 29...	148	47	26	.4	1.6	250	.34	143	0
JAN. 11...	147	45	28	.4	1.7	300	.41	145	0
31...	144	44	25	.4	1.5	292	.40	134	0
MAR. 21...	67	27	26	.4	--	--	.24	94	--
28...	99	26	20	.4	--	--	.26	93	0
APR. 26...	93	19	15	.3	.72	173	.24	84	0
MAY 29...	--	--	--	--	--	--	--	--	--
JULY 25...	151	56	35	.5	1.3	295	.40	129	0

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)
NOV. 29...	40	1.6	460	7.7	15.5	5	7.6	--	--
JAN. 11...	36	1.4	480	--	--	--	--	--	--
31...	41	1.6	420	7.8	12.0	3	9.0	--	--
MAR. 21...	39	1.3	221	7.4	10.0	--	--	--	--
28...	39	1.3	320	7.4	9.0	--	--	--	--
APR. 26...	38	1.1	260	7.7	26.5	15	6.2	--	--
MAY 29...	--	--	--	--	34.0	--	--	0	100
JULY 25...	49	2.3	465	8.4	31.5	8	7.3	--	--

DATE	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 29...	70	--	--	--	--	--	--	--	--
JAN. 11...	110	--	--	--	--	--	--	--	--
31...	110	--	--	--	--	--	--	--	--
MAR. 21...	20	--	--	--	--	--	--	--	--
28...	0	--	--	--	--	--	--	--	--
APR. 26...	10	--	--	--	--	--	--	--	--
MAY 29...	--	0	0	0	10	.0	0	0	0
JULY 25...	170	--	--	--	--	--	--	--	--

<sup>1/</sup> Selected samples furnished by California Department of Water Resources.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

605

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

		INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)		
WALKER LAKE BASIN												
10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CALIF. (LAT 38°19'40", LONG 119°12'50") <sup>1/</sup>												
APR.												
19...	1430	202	21	4.8	22	112	0	92	3.9	--		
SEP.												
25...	1300	144	25	4.8	13	115	0	94	1.3	136		
CARSON RIVER BASIN												
10310000 WEST FORK CARSON RIVER AT WOODFORDS, CALIF. (LAT 38°46'10", LONG 119°49'55") <sup>1/</sup>												
APR.												
19...	1000	149	6.3	1.5	3.2	30	0	25	.7	--		
SFP.												
25...	0945	45	9.4	2.8	4.0	46	0	38	1.7	53		
DATE	TIME	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	
10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CALIF.--Continued												
APR.												
19...	--	--	72	0	1.1	220	8.0	6.0	3	10.5		
SEP.												
25...	.18	52.9	82	0	.6	195	7.7	13.0	25	8.1		
10310000 WEST FORK CARSON RIVER AT WOODFORDS, CALIF.--Continued												
APR.												
19...	--	--	22	0	.3	56	7.1	2.0	1	11.9		
SEP.												
25...	.07	6.44	35	0	.3	84	7.3	7.0	1	9.6		
DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
SANTA MARGARITA RIVER BASIN												
11044500 SANTA MARGARITA RIVER NEAR FALLBROOK, CALIF. (LAT 33°23'54", LONG 117°15'44") <sup>2/</sup>												
DEC.												
28...	1315	4.8	--	--	119	43	146	3.5	345	0	283	220
APR.												
05...	1045	10	200	--	69	33	120	6.0	277	0	227	160
11...	0945	8.0	--	--	95	40	120	3.5	302	0	248	188
MAY												
31...	1230	2.7	10	150	--	--	--	--	--	--	--	--
JUNE												
27...	1200	.91	--	--	117	46	147	3.5	389	0	319	180
SEP.												
26...	1230	.77	--	--	112	44	146	3.5	401	0	329	163
DATE		DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
DEC.												
28...	194	.4	.00	922	1.25	474	190	40	2.9	1450	7.9	9.0
APR.												
05...	150	.5	--	--	.97	310	81	45	3.0	1230	8.1	13.5
11...	158	.4	.32	785	1.07	402	150	39	2.6	1180	8.1	15.0
MAY												
31...	--	--	--	--	--	--	--	--	--	--	--	18.5
JUNE												
27...	205	.4	.09	961	1.31	481	160	40	2.9	1450	7.8	25.5
SEP.												
26...	201	.7	.05	892	1.21	461	130	41	3.0	1380	8.0	20.5

<sup>1/</sup> Records furnished by California Department of Water Resources.<sup>2/</sup> Selected analyses furnished by California Department of Water Resources.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS  
 CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)
11044500 SANTA MARGARITA RIVER NEAR FALLBROOK, CALIF.--Continued												
DEC. 28...	3	10.7	--	--	210	--	--	--	--	--	--	--
APR. 05...	--	--	--	--	90	--	--	--	--	--	--	--
11...	3	11.4	--	--	130	--	--	--	--	--	--	--
MAY 31...	--	--	0	0	--	0	0	0	0	.1	0	0
JUNE 27...	3	8.9	--	--	150	--	--	--	--	--	--	--
SEP. 26...	2	9.2	--	--	170	--	--	--	--	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRATE (NO2) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
------	------	---	--	--	--	---	---	--	---	--

SANTA ANA RIVER BASIN  
 11051500 SANTA ANA RIVER NEAR MENTONE, CALIF. (LAT 34°06'30", LONG 117°05'59")

NOV. 14...	1200	22	.82	.00	.00	.82	.14	.18	3.2	3.3
16...	1030	143	.77	.00	.00	.77	.20	.26	1.3	1.5
29...	1200	.10	1.7	.00	.00	1.7	.05	.06	.03	.08
FEB. 09...	1015	16	1.8	.01	.03	1.8	--	--	.15	.25
12...	1230	415	2.8	.00	.00	2.8	1.0	1.3	.90	1.9
AUG. 09...	1045	1.0	1.6	.00	.03	1.6	--	--	.10	.16

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
NOV. 14...	2.0	.04	249	9.5	45	0	0	0	2	0
16...	1.5	.04	264	18.0	21	0	0	0	1	0
29...	.04	.03	437	10.0	1.0	0	0	0	1	0
FEB. 09...	.10	.02	343	13.5	2.5	5	5	<10	0	10
12...	1.6	.04	--	9.0	21	1	0	40	3	0
AUG. 09...	.05	.01	434	23.0	1.0	2	2	<10	1	0

DATE	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 14...	0	20	5	130	34	54	.3	.3	320	280
16...	0	12	2	100	15	12	.2	--	230	30
29...	0	0	0	9	2	1	.2	.7	40	10
FEB. 09...	0	20	0	10	<100	5	12	1.1	40	10
12...	0	120	1	100	300	1	.2	.0	270	0
AUG. 09...	0	<25	2	<10	<50	1	.0	.0	60	40



## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

607

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
------	------	--	--	--	--	---	---	--	---	--	---

11059300 SANTA ANA RIVER AT E STREET, NEAR SAN BERNARDINO, CALIF. (LAT 34°04'05", LONG 117°17'36")

NOV.											
14...	1420	1070	.52	.02	.07	.54	3.4	4.3	4.3	7.6	3.2
16...	0930	143	3.6	.00	.03	3.6	10	13	2.0	12	5.7
FEB.											
12...	0945	40	--	--	--	--	--	--	--	--	--
AUG.											
09...	1045	25	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)
NOV.											
14...	1.1	--	--	--	241	18.0	44	2	1	1	4
16...	8.1	--	--	--	629	18.0	66	0	0	1	2
FEB.											
12...	--	179	.24	19.3	253	--	--	--	--	--	--
AUG.											
09...	--	527	.72	35.6	887	--	--	--	--	--	--

DATE	TOTAL CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV.											
14...	0	0	15	5	110	280	270	.2	.0	360	240
16...	0	0	13	2	80	92	64	.2	--	170	110
FEB.											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
09...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SULFATE (SU4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
------	------	--	--	---	--	--	------------------------------------	--	---------------	-----------------------------	------------------------------	------------------------------------

11097500 LOS ANGELES RIVER AT LOS ANGELES, CALIF. (LAT 34°04'52", LONG 118°13'36")<sup>1/</sup>

MAY												
23...	0630	12	282	141	877	1.19	382	1400	8.4	15.5	3	6.5
SEP.												
27...	0630	9.8	294	136	890	1.21	393	1340	7.3	18.5	4	4.3

<sup>1/</sup> Records furnished by California Department of Water Resources.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
------	------	---	--	--	--	---	--	--	--------------------------------------	-----------------------------------	--	--

## SANTA CLARA RIVER BASIN

11113300 SANTA CLARA RIVER NEAR SANTA PAULA, CALIF. (LAT 34°21'14", LONG 119°01'38")<sup>1/</sup>

NOV. 28...	1200	72	--	--	206	78	146	5.6	318	0	261	734
JAN. 30...	1115	60	--	--	195	72	140	5.4	309	0	253	693
APR. 24...	1130	200	--	--	154	57	105	4.6	279	0	229	517
JUNE 01...	1000	70	0	10	--	--	--	--	--	--	--	--
JULY 24...	0930	80	--	--	150	57	101	4.5	262	0	215	512

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TUNS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
NOV. 28...	69	.8	4.7	1500	2.04	835	570	27	2.2	1950	7.7	18.0
JAN. 30...	62	.8	4.3	1460	1.99	783	530	28	2.2	1800	7.8	13.5
APR. 24...	46	.7	2.9	1120	1.52	619	390	27	1.8	1320	8.2	20.5
JUNE 01...	--	--	--	--	--	--	--	--	--	--	--	19.5
JULY 24...	44	.7	2.9	1100	1.50	609	390	26	1.8	1390	8.0	19.5

DATE	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BARIUM (BA) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	DIS- SOLVED CAD- MIUM (CU) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SILVER (AG) (UG/L)
NOV. 28...	5	8.7	--	--	910	--	--	--	--	--	--	--
JAN. 30...	5	9.4	--	--	1000	--	--	--	--	--	--	--
APR. 24...	7	9.7	--	--	720	--	--	--	--	--	--	--
JUNE 01...	--	--	0	100	--	0	0	0	10	.1	20	0
JULY 24...	50	10.2	--	--	750	--	--	--	--	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
------	------	---	--	--	--	---	--	--	--------------------------------------	-----------------------------------	--	--

## VENTURA RIVER BASIN

11115500 MATILIA CREEK AT MATILIA HOT SPRINGS, CALIF. (LAT 34°28'58", LONG 119°18'03")<sup>1/</sup>

NOV. 27...	0915	5.2	--	--	110	31	58	2.8	231	0	189	260
JAN. 29...	0930	14	--	--	100	25	38	2.1	215	0	176	220
APR. 23...	0915	68	--	--	100	26	33	2.1	200	0	164	250
JUNE 01...	0730	10	10	10	--	--	--	--	--	--	--	--
JULY 23...	0830	9.1	--	--	88	30	42	2.1	166	0	136	260

<sup>1/</sup> Records furnished by California Department of Water Resources.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

609

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS PER AC-FT) (MG/L)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
VENTURA RIVER BASIN 11115500 MATILIJA CREEK AT MATILIJA HOT SPRINGS, CALIF.--Continued												
NOV. 27...	50	.6	648	.88	410	220	24	1.3	1010	7.7	11.0	1
JAN. 29...	18	.6	560	.76	350	170	19	.9	750	8.1	8.0	8
APR. 23...	11	.5	567	.77	370	210	16	.8	725	8.2	15.0	1
JUNE 01...	--	--	--	--	--	--	--	--	--	--	18.5	--
JULY 23...	18	.6	567	.77	340	200	21	1.0	810	8.1	22.0	1

DATE	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CADMIUM (CU) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED NITRUM (SE) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV. 27...	10.4	--	--	1180	--	--	--	--	--	--	--	--
JAN. 29...	11.1	--	--	610	--	--	--	--	--	--	--	--
APR. 23...	9.8	--	--	330	--	--	--	--	--	--	--	--
JUNE 01...	--	0	0	--	0	0	0	10	.1	0	0	0
JULY 23...	8.3	--	--	620	--	--	--	--	--	--	--	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
SANTA MARIA RIVER BASIN 11138100 CUYAMA RIVER BELOW TWITCHELL DAM, CALIF. (LAT 34°56'40", LONG 120°17'30") <sup>1/</sup>								
JUNE 13...	0950	35	178	73	113	6.2	318	0
JULY 05...	1100	232	100	37	58	3.1	207	0
JULY 23...	1230	221	79	30	48	3.0	190	0

DATE	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
JUNE 13...	261	611	61	.6	.50	1320	1.80	744	480
JULY 05...	170	289	35	.4	.36	646	.88	402	230
JULY 23...	156	216	32	.4	.59	546	.74	321	170

DATE	PERCENT SODIUM	SODIUM AD-SORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)
JUNE 13...	25	1.8	1640	--	16.0	3	--	250
JULY 05...	24	1.3	945	--	16.0	5	--	210
JULY 23...	24	1.2	770	8.3	22.0	2	12.6	220

<sup>1/</sup> Selected samples furnished by California Department of Water Resources.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)
------	------	-------------------------	---	--	--	---	---	---	---	---

SALINAS RIVER BASIN  
11143500 SALINAS RIVER NEAR POZO, CALIF. (LAT 35°17'55", LONG 120°24'10")

NOV. 22...	1315	E1.8	--	.15	.00	.15	--	--	.07	.09
FEB. 13...	1300	--	406	.48	.00	.48	--	.22	.22	.21
MAR. 20...	1230	E430	--	.17	.00	.17	--	.14	.14	.46
APR. 19...	1630	--	9.6	.86	.00	.86	--	.03	--	.24
SEP. 05...	1115	--	1.1	.69	.00	.69	.7	.05	--	.15

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL NITRO- GEN IN BOTTOM DEPOS- ITS (N) (MG/KG)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM DE- POSITS (MG/KG)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MA- TERIAL (C) (G/KG)
NOV. 22...	.16	.12	--	.01	--	621	--	15.5	2.0	--
FEB. 13...	.43	.19	--	.03	--	223	--	12.0	8.0	--
MAR. 20...	.60	.18	--	.04	--	320	--	10.0	8.0	--
APR. 19...	.27	.04	--	.03	--	521	--	18.0	1.5	--
SEP. 05...	.20	.08	150	.09	21	643	8.0	21.0	29	1.0

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)
NOV. 22...	1315	.00	--	.0	--	.00	--	.00	--	.00
FEB. 13...	1300	.00	--	.0	--	.00	--	.00	--	.00
MAR. 20...	1230	.00	--	.0	--	.00	--	.00	--	.00
APR. 19...	1630	.00	--	.0	--	.00	--	.00	--	.00
SEP. 05...	1115	.00	.0	.0	0	.00	.0	.00	.0	.00

DATE	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
NOV. 22...	--	.00	.00	--	.00	--	.00	--	.00
FEB. 13...	--	.00	.00	--	.00	--	.00	--	.00
MAR. 20...	--	.00	.00	--	.00	--	.00	--	.00
APR. 19...	--	.00	.00	--	.00	--	.00	--	.00
SEP. 05...	.0	.00	.00	.0	.00	.0	.00	.0	.00

E Estimated.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

611

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSIT (UG/KG)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE- POSIT (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
------	-------------------	--	--------------------------	------------------------------------	--------------------------	---------------	--	-----------------	-------------------	------------------

## SALINAS RIVER BASIN

11143500 SALINAS RIVER NEAR POZO, CALIF.--Continued

NOV. 22...	.00	--	.00	.00	.00	.0	--	.00	.00	.00
FEB. 13...	.00	--	.00	.00	.00	.0	--	.00	.00	.00
MAR. 20...	.00	--	.00	.00	.00	.0	--	.00	.00	.00
APR. 19...	.00	--	.00	.00	.00	.0	--	.00	.00	.00
SEP. 05...	.00	.0	.00	.00	.00	.0	0	.00	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE- POSIT (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM DE- POSIT (UG/G)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE- POSIT (UG/G)
NOV. 22...	1315	10	0	0	1	--	0	--	0	1	1	--
FEB. 13...	1300	0	1	30	2	--	0	--	0	70	1	--
MAR. 20...	1230	0	1	10	2	--	0	--	0	<20	0	--
APR. 19...	1630	3	3	0	0	--	0	--	0	<20	1	--
SEP. 05...	1115	33	1	10	0	0	0	0	0	<25	0	<2

DATE	TIME	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE- POSIT (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE- POSIT (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE- POSIT (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE- POSIT (UG/G)
NOV. 22...	16	13	--	1	0	--	.0	.0	--	30	20	--	--
FEB. 13...	60	4	--	200	3	--	.3	.1	--	60	0	--	--
MAR. 20...	120	10	--	<100	0	--	.2	.2	--	160	20	--	--
APR. 19...	130	5	--	<100	2	--	1.1	1.2	--	10	10	--	--
SEP. 05...	<10	4	2	<50	3	<5	.0	.0	.0	20	20	6	6

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)
11145000	SALINAS RIVER ABOVE PILITAS CREEK, NEAR SANTA MARGARITA, CALIF. (LAT 35°20'56", LONG 120°30'42")						

APR.  
19... 1530 150 .33 .00 .33 .06 .40

DATE	TIME	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
APR. 19...	1530	.46	.09	.03	302	10.5	5.0

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
APR. 19...	1530	4	2	10	1	0	0	<20	1

DATE	TIME	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
APR. 19...	120	13	<100	4	1.2	.8	10	10	

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL CAL- CIUM (CA) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)
------	------	---	---	--	--	---	---	---

## SALINAS RIVER BASIN

11147500 SALINAS RIVER AT PASO ROBLES, CALIF. (LAT 35°37'43", LONG 120°41'00")

JAN.								
11...	1130	43	38	.49	.00	.49	.17	.17
FEB.								
13...	1600	3240	--	.65	.00	.65	.43	.43
MAR.								
20...	1400	2860	--	.27	.00	.27	.38	.38
MAY								
17...	1315	6.1	--	.12	.00	.12	.13	--

DATE	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN.							
11...	.00	.13	.17	.17	388	13.0	8.0
FEB.							
13...	.67	1.1	1.1	.09	365	12.0	15
MAR.							
20...	2.0	2.4	1.2	.11	271	11.0	23
MAY							
17...	.27	.40	.08	.06	910	32.0	2.5

DATE	TIME	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DND (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
JAN.										
11...	1240	.00	.0	.00	.00	.00	.00	.00	.00	.00
FEB.										
13...	1600	.00	.0	.00	.00	.00	.00	.00	.00	.00
MAR.										
20...	1400	.00	.0	.00	.00	.00	.01	.00	.00	.00
MAY										
17...	1315	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JAN.									
11...	.00	.00	.00	.00	.00	.0	.00	.00	.00
FEB.									
13...	.00	.00	.00	.00	.00	.0	.00	.00	.00
MAR.									
20...	.00	.00	.00	.00	.00	.0	.35	.00	.00
MAY									
17...	.00	.00	.00	.00	.00	.0	.00	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
JAN.									
11...	1130	20	2	0	1	20	0	80	1
FEB.									
13...	1600	3	0	30	1	0	0	70	2
MAR.									
20...	1400	0	19	10	1	70	0	20	0
MAY									
17...	1315	6	1	0	1	0	0	<20	0

DATE	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
JAN.								
11...	70	10	8	3	.3	.1	60	20
FEB.								
13...	80	11	300	3	.4	.2	120	0
MAR.								
20...	120	20	<100	0	.2	.1	90	60
MAY								
17...	10	10	<100	3	.8	.8	20	20

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

613

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	
SALINAS RIVER BASIN											
11150500 SALINAS RIVER NEAR BRADLEY, CALIF. (LAT 35°55'49", LONG 120°52'04")											
NOV. 27...	1115	--	37	.10	.00	.10	--	--	.06	.18	
FEB. 07...	1030	E2000	--	.46	.01	.47	--	.20	.20	16	
MAR. 21...	1430	F3000	--	.45	.00	.46	--	.12	.12	3.5	
MAY 17...	1600	--	16	.03	.00	.03	--	.02	--	.22	
SEP. 05...	1430	--	402	.54	.00	.54	.7	.01	--	.22	
DATE	TIME	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL NITRO- GEN IN BOTTOM DEPOS- ITS (N) (MG/KG)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM DE- POSITS (MG/KG)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MA- TERIAL (C) (G/KG)	
NOV. 27...		.24	.25	--	.09	--	613	13.0	3.0	--	
FEB. 07...	16	11	--	.16	--	428	11.5	91	--	--	
MAR. 21...	3.6	4.9	--	.11	--	422	11.0	41	--	--	
MAY 17...	.24	.06	--	.07	--	840	32.0	2.0	--	--	
SEP. 05...	.23	.12	55	.05	195	284	18.5	4.5	1.3	--	
DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)	
NOV. 27...	1115	.00	--	.0	--	.00	--	.00	--	.00	
FEB. 07...	1030	.00	--	.0	--	.00	--	.00	--	.00	
MAR. 21...	1430	.00	--	.0	--	.02	--	.01	--	.02	
MAY 17...	1600	.00	--	.0	--	.00	--	.00	--	.00	
SEP. 05...	1430	.00	.0	.0	0	.00	.0	.00	.0	.00	
DATE	TIME	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	
NOV. 27...	--	.00	.00	--	.00	--	.00	--	.00	--	
FEB. 07...	--	.00	.00	--	.00	--	.00	--	.00	--	
MAR. 21...	--	.01	.01	--	.00	--	.00	--	.00	--	
MAY 17...	--	.00	.00	--	.00	--	.00	--	.00	--	
SEP. 05...	.0	.01	.00	.0	.00	.0	.00	.0	.00	.0	
DATE	TIME	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
NOV. 27...		.00	--	.00	.00	.00	.0	--	.00	.00	.00
FEB. 07...		.00	--	.00	.00	.00	.0	--	.14	.01	.00
MAR. 21...		.00	--	.00	.00	.00	.0	--	.42	.00	.00
MAY 17...		.00	--	.00	.00	.00	.0	--	.00	.00	.00
SEP. 05...		.00	.0	.00	.00	.00	.0	0	.00	.00	.00

E Estimated.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS= SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS= SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM IN BOTTOM DE= POSITS (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM DE= POSITS (UG/G)	HEXA= VALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS= SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE= POSITS (UG/G)
SALINAS RIVER BASIN 11150500 SALINAS RIVER NEAR BRADLEY, CALIF.--Continued												
NOV. 27...	1115	0	0	0	1	--	0	--	0	1	1	--
FEB. 07...	1030	80	3	50	1	--	940	--	0	240	1	--
MAR. 21...	1430	20	2	20	7	--	320	--	0	70	0	--
MAY 17...	1600	3	0	0	1	--	0	--	0	<20	0	--
SEP. 05...	1430	0	3	<10	0	0	10	3	0	<25	1	<2

DATE	TOTAL COPPER (CU) (UG/L)	DIS= SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE= POSITS (UG/G)	TOTAL LEAD (PB) (UG/L)	DIS= SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE= POSITS (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS= SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE= POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS= SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE= POSITS (UG/G)
NOV. 27...	22	12	--	1	0	--	.1	.4	--	30	20	--
FEB. 07...	410	11	--	500	2	--	1.5	.1	--	1000	20	--
MAR. 21...	320	30	--	100	16	--	.5	.2	--	460	40	--
MAY 17...	0	10	--	<100	2	--	.6	.6	--	10	10	--
SEP. 05...	20	6	1	<50	5	<5	.0	.0	.0	50	0	5

DATE	TIME	INSTANTANEOUS DIS= CHARGE (CFS)	DIS= SOLVED NITRATE (N) (MG/L)	DIS= SOLVED NITRITE (N) (MG/L)	DIS= SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO= GEN (N) (MG/L)	DIS= SOLVED AMMONIA NITRO= GEN (N) (MG/L)	ORGANIC NITRO= GEN (N) (MG/L)
11151700 SALINAS RIVER AT SOLEDAD, CALIF. (LAT 36°24'40", LONG 121°19'06")								
NOV. 27...	1330	44	.45	.00	.45	--	.10	.78
FEB. 09...	0930	1670	.26	.00	.26	.16	.16	1.9
MAR. 23...	1000	2410	.49	.00	.49	.16	.16	2.8
MAY 18...	1130	57	3.0	.10	3.1	.03	--	.21
SEP. 06...	1015	153	--	--	--	--	--	--

DATE	TOTAL KJEL= DAHL NITRO= GEN (MG/L)	TOTAL PHOS= PHORUS (P) (MG/L)	DIS= SOLVED ORTHO= PHOS= PHORUS (P) (MG/L)	SPE= CIFIC CON= DUCT= ANCE (MICRO= MHOS)	TEMPER= ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MA= TERIAL (C) (G/KG)
NOV. 27...	.88	.70	.15	787	15.5	8.0	--
FEB. 09...	2.1	4.3	.12	436	12.0	37	--
MAR. 23...	3.0	2.9	.11	475	11.0	28	--
MAY 18...	.24	.08	.06	1350	21.0	1.5	--
SEP. 06...	--	--	--	--	17.0	--	1.1



## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

615

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)
------	------	------------------	--	--------------------------	--	---------------	---	---------------	---	---------------

## SALINAS RIVER BASIN

11151700 SALINAS RIVER AT SOLEDAD, CALIF.--Continued

NOV. 27...	1330	.00	..	.0	..	.00	..	.00	..	.00
FEB. 08...	0930	.00	..	.0	..	.00	..	.00	..	.00
MAR. 23...	1000	.00	..	.0	..	.00	..	.00	..	.01
MAY 18...	1130	.00	..	.0	..	.00	..	.00	..	.00
SEP. 06...	1015	.00	.0	.0	0	.00	.0	.00	.0	.00

DATE	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
NOV. 27...	..	.00	.00	..	.00	..	.00	..	.00	..
FEB. 08...	..	.00	.00	..	.00	..	.00	..	.00	..
MAR. 23...	..	.01	.01	..	.00	..	.00	..	.00	..
MAY 18...	..	.00	.00	..	.00	..	.00	..	.00	..
SEP. 06...	.0	.00	.00	.0	.00	.0	.00	.0	.00	.0

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	METHYL THION (UG/L)	PARA- THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
NOV. 27...	.00	..	.00	.00	.00	.0	..	.00	.00	.00
FEB. 08...	.00	..	.00	.00	.00	.0	..	.04	.00	.00
MAR. 23...	.00	..	.00	.00	.00	.0	..	.13	.00	.00
MAY 18...	.00	..	.00	.00	.00	.0	..	.00	.00	.00
SEP. 06...	.00	.0	.00	.00	.00	.0	0	.00	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)
NOV. 27...	1330	1	0	1	1	0	..	0	8
FEB. 09...	0930	30	4	30	0	340	..	0	90
MAR. 23...	1000	20	3	20	1	220	..	0	50
MAY 18...	1130	6	6	0	0	..	0	0	<25

DATE	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
NOV. 27...	1	50	22	5	1	.1	.1	70	20
FEB. 09...	0	150	11	200	3	6.0	4.0	360	20
MAR. 23...	0	170	10	100	0	1.5	1.4	220	30
MAY 18...	0	10	10	<100	0	.8	.8	40	20

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

		INSTAN- TANEOUS DIS- CHARGE (CFS)		SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)		
SAN LORENZO RIVER BASIN										
11160020 SAN LORENZO RIVER NEAR BOULDER CREEK, CALIF. (LAT 37°12'24", LONG 122°08'38")										
JAN.										
04...	1200	1.8	300	--	--	--	--	--		
11...	1235	14	340	--	--	--	--	--		
16...	1500	178	140	--	--	--	--	--		
16...	1545	163	170	--	10.5	--	--	--		
FEB.										
02...	1005	15	348	--	--	--	--	--		
27...	1330	193	198	--	--	--	--	--		
MAR.										
01...	1110	60	288	--	--	--	--	--		
APR.										
03...	1145	14	430	--	--	--	--	--		
MAY										
01...	1350	5.5	473	--	--	--	--	--		
10...	1400	4.7	455	7.6	13.0	3	10.6			
16...	1345	4.4	485	8.1	14.0	1	10.2			
JUNE										
19...	1300	2.3	450	--	--	--	--	--		
27...	1030	1.9	540	7.5	16.5	--	--	--		
DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)		
JUNE										
27...	1030	1.9	24	30	79	13	21	7.8		
DATE	TIME	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE PLUS (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (MG/L)
JUNE										
27...	250	0	205	64	14	.4	.03	347	.47	
DATE	TIME	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	TEMPER- ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	
JUNE										
27...	1.78	250	46	15	.6	16.5	13	120		
DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
11160036 KINGS CREEK NEAR BOULDER CREEK, CALIF. (LAT 37°09'35", LONG 122°07'32")										
MAY										
16...	1200	4.0	--	--	--	--	--	--	--	--
JUNE										
27...	1115	1.0	23	50	75	14	32	4.0	209	0
DATE	TIME	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE PLUS (N) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER DAY)	NON- CAR- BONATE HARD- NESS (CA,MG) (MG/L)
MAY										
16...	--	--	--	--	--	--	--	--	--	--
JUNE										
27...	171	100	26	.4	.10	378	.51	1.02	250	74
DATE	TIME	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)
MAY										
16...	--	--	--	525	8.2	--	2	10.2	--	--
JUNE										
27...	22	.9	625	8.2	17.5	--	9.3	2.1	200	

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

617

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	
SAN LORENZO RIVER BASIN								
11160045	SAN LORENZO RIVER AT BOULDER CREEK, CALIF. (LAT 37°08'31", LONG 122°07'53")							
MAY 17...	1300	14	500	7.9	15.0	3	10.0	
11160055	BEAR CREEK NEAR BOULDER CREEK, CALIF. (LAT 37°09'54", LONG 122°04'25")							
MAY 17...	1030	11	535	8.2	13.5	4	9.6	
11160060	BEAR CREEK AT BOULDER CREEK, CALIF. (LAT 37°07'40", LONG 122°07'14")							
MAY 17...	1400	10	490	8.0	15.0	2	10.0	
11160065	BOULDER CREEK ABOVE JAMISON CREEK, NEAR BOULDER CREEK, CALIF. (LAT 37°08'56", LONG 122°09'22")							
MAY 16...	1030	2.0	300	8.0	12.5	3	10.3	
11160070	BOULDER CREEK AT BOULDER CREEK, CALIF. (LAT 37°07'36", LONG 122°07'18")							
MAY 16...	1530	12	189	8.2	14.5	1	10.3	
11160150	LOVE CREEK AT BEN LOMOND, CALIF. (LAT 37°05'20", LONG 122°05'13")							
MAY 10...	1300	4.0	288	7.6	13.0	2	10.6	
11160200	NEWELL CREEK AT BEN LOMOND, CALIF. (LAT 37°05'42", LONG 122°04'23")							
MAY 10...	1000	3.0	370	7.9	10.5	20	10.3	
11160230	FALL CREEK BELOW BENNETT CREEK, AT FELTON, CALIF. (LAT 37°03'11", LONG 122°04'45")							
MAY 04...	1300	15	222	7.9	11.5	2	10.6	
11160250	FALL CREEK AT FELTON, CALIF. (LAT 37°03'33", LONG 122°04'42")							
MAY 04...	1430	15	230	--	11.5	3	10.6	
DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
ZAYANTE CREEK BELOW MOUNTAIN CHARLIE GULCH, NEAR ZAYANTE, CALIF. (LAT 37°06'22", LONG 122°01'17")								
MAY 05...	1200	5.0	--	--	--	--	--	--
JULY 24...	1020	1.3	58	16	96	28	.03	.00
DATE	TIME	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	HARD- NESS (CA,MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
MAY 05...	--	--	--	500	8.0	12.0	3	10.7
JULY 24...	.03	210	588	8.0	13.0	--	--	9.8

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
------	------	---	--	---	--	---	--	--

## SAN LORENZO RIVER BASIN

11160320 LOMPICO CREEK AT ZAYANTE, CALIF. (LAT 37°04'59", LONG 122°03'01")

MAY 08...	1500	2.0	--	--	--	--	--	--
JULY 24...	1315	.33	73	16	42	22	.12	.01

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	HARD- NESS (CA, MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
MAY 08...	--	--	480	8.0	13.0	3	10.0
JULY 24...	.13	250	554	8.1	14.0	--	9.6

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)
------	------	---	--	---	--	---	--	---	---	---	---	---

11160430 BEAN CREEK NEAR FELTON, CALIF. (LAT 37°03'14", LONG 122°02'53")

MAY 09...	1600	6.0	--	--	--	--	--	--	--	--	--	--
JULY 24...	1615	2.8	--	--	--	--	--	--	--	--	--	--
24...	1645	2.8	42	6.6	52	24	.65	.67	.07	.06	.11	.09

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA, MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)
MAY 09...	--	--	--	--	--	--	360	7.2	17.0	5	9.2	--
JULY 24...	--	--	--	--	--	--	364	7.9	18.5	--	9.4	1.0
24...	.18	.15	.03	.53	.37	130	384	--	18.5	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
------	------	---	--	---	--	---	--	--

11160450 ZAYANTE CREEK AT FELTON, CALIF. (LAT 37°02'54", LONG 122°03'55")

MAY 09...	1300	10	--	--	--	--	--	--
15...	1600	10	--	--	--	--	--	--
JULY 24...	1415	6.8	41	7.5	49	24	.39	.01

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	HARD- NESS (CA, MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
MAY 09...	--	--	368	7.7	14.0	4	10.2
15...	--	--	375	--	15.0	10	--
JULY 24...	.40	130	368	8.5	17.0	--	10.5

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

619

## CHEMICAL ANALYSES, MAY 1972 TO SEPTEMBER 1973

		INSTAN- TANEOUS DIS- CHARGE (CFS)		SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)		PH	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)		
SAN LORENZO RIVER BASIN											
11161400 CARBONERA CREEK AT SANTA CRUZ, CALIF. (LAT 36°59'12", LONG 122°00'48")											
MAY 03...		0900	2.5	310	7.2	11.0	9	10.1			
11161500 BRANCIFORTE CREEK AT SANTA CRUZ, CALIF. (LAT 36°59'10", LONG 122°00'48")											
MAY 02...		1330	10	425	7.4	18.0	8	10.0			
DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HC03) (MG/L)	
GUADALUPE RIVER BASIN											
11169500 SARATOGA CREEK AT SARATOGA, CALIF. (LAT 37°15'16", LONG 122°02'18")											
MAY , 1972											
23...	--	.10	--	17	--	67	24	29	1.5	286	
NOV.											
13...	0930	--	6.9	--	--	--	--	--	--	208	
13...	1230	--	14	--	--	--	--	--	--	155	
13...	1345	--	24	--	--	--	--	--	--	--	
13...	1500	--	38	--	--	--	--	--	--	121	
13...	1830	--	144	--	--	--	--	--	--	102	
DEC.											
03...	1500	--	.45	20	20	76	25	30	2.1	286	
06...	0730	--	11	--	--	--	--	--	--	135	
06...	1500	--	5.3	--	--	--	--	--	--	184	
07...	0730	--	3.8	--	--	--	--	--	--	200	
DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	
MAY , 1972											
23...	0	235	63	24	.4	--	--	--	--	--	
NOV.											
13...	--	171	--	--	--	.35	--	.13	.37	.13	
13...	--	127	--	--	--	.56	--	.16	2.4	.24	
13...	--	--	--	--	--	--	--	--	--	--	
13...	--	99	--	--	--	.47	--	.09	3.8	.30	
13...	--	84	--	--	--	.56	--	.36	12	.10	
DEC.											
03...	0	235	89	25	.3	.72	.06	.06	.10	.13	
06...	--	111	--	--	--	.30	.42	.42	.40	.08	
06...	--	151	--	--	--	.38	.04	.04	.24	.06	
07...	--	164	--	--	--	.29	.06	.06	.02	.00	
DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	
MAY , 1972											
23...	--	--	--	--	--	--	367	.50	.10	270	
NOV.											
13...	.50	.26	.85	.24	.06	--	--	--	--	--	
13...	2.6	.40	3.2	1.1	.06	--	--	--	--	--	
13...	--	--	--	--	--	--	--	--	--	--	
13...	3.9	.39	4.4	1.1	.06	--	--	--	--	--	
13...	12	.46	13	1.4	.08	--	--	--	--	--	
DEC.											
03...	.16	.19	.88	.11	.04	454	412	.62	.55	290	
06...	.82	.50	1.1	.44	.06	232	--	.32	6.89	--	
06...	.28	.10	.66	.12	.05	306	--	.42	4.38	--	
07...	.08	.06	.37	.09	.06	278	--	.38	2.85	--	

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## CHEMICAL ANALYSES, MAY 1972 TO SEPTEMBER 1973

DATE	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG. C)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	RIO-CHEMICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
------	-------------------------------	----------------	-------------------------	----------------------------------	------------	----------------------	--	-----------------------------------	-----------------------------

## GUADALUPE RIVER BASIN

## 11169500 SARATOGA CREEK AT SARATOGA, CALIF.--Continued

MAY, 1972									
23...	32	19	.8	610	7.7	--	--	--	9.1
NOV.									
13...	--	--	--	509	7.4	10.0	29	8.4	13
13...	--	--	--	383	7.2	10.0	41	11	16
13...	--	--	--	330	--	11.0	--	--	--
13...	--	--	--	300	7.2	11.0	150	12	12
13...	--	--	--	241	7.3	10.5	400	17	8.2
DEC.									
03...	58	18	.8	660	7.6	10.5	7	3.0	11
06...	--	--	--	313	7.2	6.5	35	6.0	14
06...	--	--	--	421	7.3	8.0	11	4.2	15
07...	--	--	--	448	7.3	6.0	11	3.6	16

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY, 1972												
23...	--	--	--	500	--	--	--	--	--	--	--	--
DEC.												
03...	1500	4	5	400	0	0	20	8	3	3	90	90
06...	0730	--	--	--	0	0	40	7	29	2	120	40
06...	1500	--	--	--	--	0	--	8	--	1	--	40
07...	0730	--	--	--	0	0	20	6	4	1	80	60

DATE	TIME	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)
------	------	------------------------------------	--	---------------------------------	---------------------------------	---------------------------------	---------------------------------------	---------------------------------------	------------------------------------

## CALABAZAS CREEK BASIN

## 11169590 CALABAZAS CREEK AT VIA REGINA, NEAR SARATOGA, CALIF. (LAT 37°16'00", LONG 122°03'04")

SEP., 1972									
24...	1130	<.2	10	.4	4.1	3.9	<.2	<.2	<.2

DATE	TIME	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOTTOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL-PARA-THION IN BOTTOM DE-POSITS (UG/KG)	PARA-THION IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX IN BOTTOM DE-POSITS (UG/KG)
------	------	---	---	-------------------------------------	--	---	--	-----------------------------------	-------------------------------------	------------------------------------

SEP., 1972										
24...		<.2	<.2	<.2	<.2	<.2	<.2	<5	<2	<2

DATE	TIME	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHROMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)
------	------	--	--	---	---------------------------------------	--

SEP., 1972						
24...	1130	4	0	17	20	.0

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

621

## CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALDRIN IN BOTTOM DE- POSIT (UG/KG)	CHLOR- DANE IN BOTTOM DE- POSIT (UG/KG)	DDD IN BOTTOM DE- POSIT (UG/KG)	DDE IN BOTTOM DE- POSIT (UG/KG)	DDT IN BOTTOM DE- POSIT (UG/KG)	DI- ELDRIN IN BOTTOM DE- POSIT (UG/KG)	ENDRIN IN BOTTOM DE- POSIT (UG/KG)	HEPTA- CHLOR IN BOTTOM DE- POSIT (UG/KG)
CALABAZAS CREEK BASIN									
11169610 PROSPECT CREEK AT MARIA LANE, NEAR SARATOGA, CALIF. (LAT 37°17'38", LONG 122°02'34")									

SEP., 1972  
24... 1045 <.2 1000 24 <.2 110 <.2 <.2 <.2

DATE	TIME	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSIT (UG/KG)	LINDANE IN BOTTOM DE- POSIT (UG/KG)	MALA- THION IN BOTTOM DE- POSIT (UG/KG)	METHYL PARA- THION IN BOT- TOM DE- POSIT (UG/KG)	PARA- THION IN BOTTOM DE- POSIT (UG/KG)	2,4-D IN BOTTOM DE- POSIT (UG/KG)	2,4,5-T IN BOTTOM DE- POSIT (UG/KG)	SILVEX IN BOTTOM DE- POSIT (UG/KG)
SEP., 1972 24...		<.2	<.2	<.2	<.2	<.2	<10	<4	<4

DATE	TIME	TOTAL ARSENIC IN BOTTOM DE- POSIT (UG/G)	TOTAL CADMIUM IN BOTTOM DE- POSIT (UG/G)	TOTAL CHRO- MIUM IN BOTTOM DE- POSIT (UG/G)	TOTAL LEAD IN BOTTOM DE- POSIT (UG/G)	TOTAL MERCURY IN BOTTOM DE- POSIT (UG/G)
SEP., 1972 24...	1045	2	2	34	200	.0

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
------	------	---	--	--	--	---	--	--	--------------------------------------	-----------------------------------

PERALTA CREEK BASIN  
11181300 PERALTA CREEK AT OAKLAND, CALIF. (LAT 37°46'59", LONG 122°13'06")

SEP., 1972										
06...	1000	.15	25	20	30	40	32	1.4	268	0
26...	2205	5.8	--	--	--	--	--	--	43	--
26...	2330	9.8	--	--	--	--	--	--	50	--
26...	2345	20	19	80	5.4	4.1	6.2	1.5	35	0
27...	0050	9.8	11	880	9.8	6.7	7.5	1.5	44	0
OCT.										
09...	1425	24	--	--	--	--	--	--	80	--
09...	1455	72	--	--	--	--	--	--	--	--
09...	1510	130	--	--	--	--	--	--	64	--
09...	1525	81	--	--	--	--	--	--	--	--
09...	2115	1.9	--	--	--	--	--	--	100	--
11...	1050	76	--	--	--	--	--	--	37	--
11...	1105	48	--	--	--	--	--	--	--	--
DEC.										
03...	1945	9.5	--	--	--	--	--	--	118	--
03...	2000	15	--	--	--	--	--	--	115	--
03...	2030	12	--	--	--	--	--	--	73	--
03...	2100	7.2	--	--	--	--	--	--	61	--
04...	0945	2.4	--	--	--	--	--	--	117	--
06...	0200	36	--	--	--	--	--	--	85	--
06...	0315	22	--	--	--	--	--	--	33	--
06...	1115	1.0	--	--	--	--	--	--	129	--
JAN., 1973										
17...	2135	69	--	--	--	--	--	--	70	--
17...	2345	113	--	--	--	--	--	--	43	--
18...	1430	24	--	--	--	--	--	--	147	--
MAR.										
19...	1500	20	--	--	--	--	--	--	233	--
19...	1715	37	3.8	60	5.7	5.2	3.2	.6	40	0
19...	1840	12	5.6	60	7.1	8.3	4.5	.7	54	0

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRATE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
PERALTA CREEK BASIN											
11181300 PERALTA CREEK AT OAKLAND, CALIF.--Continued											
SEP., 1972											
06...	220	34	36	.7	--	1.2	--	.10	.44	--	.54
26...	35	--	--	--	--	.82	--	.30	1.3	--	1.6
26...	41	--	--	--	--	1.1	--	.36	1.4	--	1.8
26...	29	9.3	7.8	.1	--	.20	--	.18	1.0	--	1.2
27...	36	11	9.6	.2	--	.21	--	.16	1.2	--	1.4
OCT.											
09...	66	--	--	--	--	.48	--	.72	3.3	.88	4.0
09...	--	--	--	--	--	--	--	--	--	--	--
09...	53	--	--	--	--	.29	--	.52	1.2	.98	1.7
09...	--	--	--	--	--	--	--	--	--	--	--
09...	82	--	--	--	--	1.2	--	.30	.90	.60	1.2
11...	30	--	--	--	--	1.3	--	.23	1.4	.48	1.6
11...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
03...	97	--	--	--	--	--	--	--	--	--	--
03...	94	--	--	--	--	--	--	--	--	--	--
03...	60	--	--	--	--	1.2	--	.29	1.4	.43	1.7
03...	50	--	--	--	--	--	--	--	--	--	--
04...	96	--	--	--	--	1.8	--	.15	.55	.31	.70
06...	70	--	--	--	--	1.2	.18	.18	1.7	.43	1.9
06...	27	--	--	--	--	.56	.44	.44	1.4	.24	1.8
06...	106	--	--	--	--	2.2	.08	.08	.30	.22	.38
JAN., 1973											
17...	57	--	--	--	--	1.5	.13	.13	1.3	.26	1.4
17...	35	--	--	--	--	.96	.16	.16	1.1	.16	1.3
18...	121	--	--	--	--	4.6	.15	.15	1.5	.85	1.6
MAR.											
19...	191	--	--	--	2.5	2.8	.12	.19	2.2	.75	2.3
19...	33	7.6	3.6	.1	.46	.51	.11	--	1.8	--	1.9
19...	44	10	4.7	.2	.67	.69	.19	--	.91	--	1.1

DATE	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
SEP., 1972											
06...	--	1.7	.32	.26	--	337	.46	.14	240	20	22
26...	--	2.4	.84	.44	--	--	--	--	--	--	--
26...	--	2.9	.92	.45	--	--	--	--	--	--	--
26...	--	1.4	.84	.06	--	72	.10	3.89	30	2	29
27...	--	1.6	1.0	.00	--	81	.11	2.14	52	16	23
OCT.											
09...	1.6	4.5	2.2	.29	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	1.5	2.0	1.1	.23	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	.90	2.4	.37	.26	--	--	--	--	--	--	--
11...	.71	2.9	.60	.15	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
03...	--	--	--	--	184	--	.25	4.72	--	--	--
03...	--	--	--	--	200	--	.27	8.10	--	--	--
03...	.72	2.9	.52	.13	142	--	.19	4.60	--	--	--
03...	--	--	--	--	112	--	.15	2.18	--	--	--
04...	.46	2.5	.26	.11	188	--	.26	1.22	--	--	--
06...	.61	3.1	.58	.11	136	--	.19	13.2	--	--	--
06...	.68	2.4	.61	.06	67	--	.09	3.98	--	--	--
06...	.30	2.6	.19	.11	214	--	.29	.58	--	--	--
JAN., 1973											
17...	.39	2.9	.47	.09	100	--	.14	18.6	--	--	--
17...	.32	2.3	.47	.13	56	--	.08	17.1	--	--	--
18...	1.0	6.2	.58	.27	244	--	.33	15.8	--	--	--
MAR.											
19...	.94	4.8	.55	.13	317	--	.43	17.1	--	--	--
19...	--	2.4	.42	.07	--	52	.07	5.19	36	3	16
19...	--	1.8	.28	.08	--	71	.10	2.30	52	8	16



## CHEMICAL ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
PERALTA CREEK BASIN										
11181300 PERALTA CREEK AT OAKLAND, CALIF.--Continued										
SEP., 1972										
06...	.9	580	7.7	17.0	7.4	13	1.6	--	350	.0
26...	--	144	6.4	17.5	7.8	73	11	--	--	--
26...	--	167	6.3	17.0	7.7	88	--	--	--	--
26...	.5	109	6.6	17.0	7.9	96	13	14	27000	.0
27...	.5	134	6.7	17.0	--	54	8.1	--	17000	--
OCT.										
09...	--	166	6.3	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	112	6.3	--	--	--	>26	--	--	--
09...	--	--	--	--	--	--	--	--	--	.0
09...	--	295	6.9	16.5	--	--	18	--	--	--
11...	--	117	7.4	18.0	--	43	5.1	--	--	--
11...	--	--	--	16.0	--	--	6.4	--	--	--
DEC.										
03...	--	292	7.2	--	--	--	23	12	--	--
03...	--	286	7.2	--	--	--	21	12	--	--
03...	--	188	7.1	--	--	110	--	9.3	--	--
03...	--	158	7.1	--	--	--	15	7.8	--	--
04...	--	270	7.3	10.5	--	35	8.4	9.4	--	--
06...	--	213	6.7	--	--	160	17	27	--	--
06...	--	93	6.5	--	--	130	11	17	--	--
06...	--	313	6.8	9.5	--	17	5.4	33	--	--
JAN., 1973										
17...	--	178	7.4	11.0	--	60	>43	4.5	--	--
17...	--	104	7.6	10.0	--	45	>47	1.7	--	--
18...	--	391	7.7	--	--	34	>46	4.7	--	--
MAR.										
19...	--	524	7.5	11.5	9.4	100	38	12	10000	.1
19...	.2	97	7.6	11.5	9.5	140	20	1.6	9500	.0
19...	.3	129	7.5	10.5	10.0	42	13	2.7	12000	.0

DATE	TIME	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DND (UG/L)	DDE (UG/L)	DDT (UG/L)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA- CHLOR (UG/L)
SEP., 1972										
06...	1000	.00	.0	.00	.00	.00	.04	.01	.00	.00
26...	2205	.00	.4	.00	.00	.08	.13	.04	.00	.00
26...	2330	.00	.5	.00	.01	.12	.13	.04	.00	.00
26...	2345	.00	.6	.00	.02	.21	.20	.05	.00	.00
27...	0050	.00	.2	.00	.00	.04	.15	.02	.00	.00
MAR., 1973										
19...	1715	.00	1.0	.00	.00	.29	.03	.10	.00	.00
19...	1840	.00	.2	.00	.00	.07	.00	.05	.00	.00

DATE	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
SEP., 1972									
06...	.00	.00	.00	.00	.00	--	.00	.00	.02
26...	.00	.00	.00	.00	.00	--	.36	.08	.06
26...	.00	.00	.00	.00	.00	--	.48	.07	.07
26...	.00	.00	.00	.00	.00	--	.33	.06	.07
27...	.00	.00	.00	.00	.00	--	.20	.07	.06
MAR., 1973									
19...	.00	.00	.00	.00	.00	.0	.60	.09	.08
19...	.00	.00	.00	.00	.00	.0	.36	.05	.05

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)
SEP., 1972										
06...	1000	0	3	220	1	1	6	5	.5	.5
26...	2345	4	4	80	1	0	510	76	2.3	7.0
27...	0050	2	2	90	1	1	210	67	.5	1.1
MAR., 1973										
19...	1715	6	0	70	<10	0	800	14	.4	.1
19...	1840	2	1	80	10	0	300	16	.1	.0

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	SUS- PENDE SOLIDS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
BUENA VISTA LAKE BASIN												
11186000 KERN RIVER NEAR KERNVILLE, CALIF. (LAT 35°56'43", LONG 118°28'36") <sup>1/</sup>												
APR. 03...	1415	88	.03	.00	.00	.02	.01	--	95	8.2	6.5	13.0
SEP. 12...	1300	76	.06	.00	.20	.01	.01	2	138	8.0	18.5	12.7

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TEMPER- ATURE (DEG C)		
TULARE LAKE BASIN										
11218500	KINGS RIVER BELOW NORTH FORK, NEAR TRIMMER, CALIF.					(LAT 36°52'29", LONG 119°08'27") <sup>1/</sup>				
MAY 24...	1215	9280	.03	.00	.10	.02	.00	11.0		
DATE	TIME	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	SUS- PENDE SOLIDS (MG/L)	HARD- NESS (CA+MG) (MG/L)
11222700	KINGS RIVER AT PEOPLES WEIR, NEAR KINGSBURG, CALIF.					(LAT 36°29'06", LONG 119°32'22") <sup>1/</sup>				
JULY 24...	0645	16	0	13	.13	.30	.04	.00	16	12
SEP. 25...	1245	--	--	--	--	--	--	--	--	--

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
JULY 24...	0	50	7.0	16.0	11.9	--	--	--	--
SEP. 25...	--	40	7.2	19.5	10.9	0	0	10	0

<sup>1/</sup> Records furnished by California Department of Water Resources.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

625

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	RESER- VOIR STORAGE (AC-FT)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PG- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
GOOSE LAKE BASIN										
11337705 GOOSE LAKE AT WILLOW RANCH, CALIF. (LAT 41°54'14", LONG 120°21'55")										
OCT. 11...	1240	887400	54	0	40	12	4.9	370	37	653
MAY 22...	1700	968200	26	--	680	7.1	4.1	350	30	594
11337715 GOOSE LAKE NEAR EVERLY RANCH, NEAR WILLOW RANCH, CALIF. (LAT 41°52'17", LONG 120°29'49")										
OCT. 11...	0800	887400	57	10	20	11	4.3	360	37	667
MAY 22...	1440	968200	40	--	50	7.0	4.3	350	34	611
11337720 GOOSE LAKE AT WEST SHORE LOG LANDING, NEAR WILLOW RANCH, CALIF. (LAT 41°57'51", LONG 120°29'37")										
OCT. 11...	0940	887400	56	10	30	11	4.5	360	38	659
MAY 22...	1410	968200	38	--	20	6.8	4.2	350	35	584

DATE	CAR- BONATE (CC3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
------	-----------------------------------	--	--	---	--	---	---	---	--	---

## 11337705 GOOSE LAKE AT WILLOW RANCH, CALIF.--Continued

OCT. 11...	72	655	81	130	.8	.43	.66	1.3	2.0	2.4
MAY 22...	61	589	75	140	.8	.02	--	--	--	--
11337715 GOOSE LAKE NEAR EVERLY RANCH, NEAR WILLOW RANCH, CALIF.--Continued										
OCT. 11...	69	662	67	130	.9	.59	.09	1.6	1.7	2.3
MAY 22...	65	609	66	120	.8	.01	--	--	--	--
11337720 GOOSE LAKE AT WEST SHORE LOG LANDING, NEAR WILLOW RANCH, CALIF.--Continued										
OCT. 11...	69	655	82	130	.9	.38	.69	1.3	2.0	2.4
MAY 22...	83	617	71	120	.8	.01	--	--	--	--

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOP- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
------	---	---	--	--	--	------------------------------------	---	-------------------	---

## 11337705 GOOSE LAKE AT WILLOW RANCH, CALIF.--Continued

OCT. 11...	1.5	1.4	1140	1090	1.55	50	0	89	23
MAY 22...	--	--	--	991	1.35	35	0	91	26
11337715 GOOSE LAKE NEAR EVERLY RANCH, NEAR WILLOW RANCH, CALIF.--Continued									
OCT. 11...	1.5	1.4	1150	1070	1.56	45	0	89	23
MAY 22...	--	--	--	992	1.35	35	0	91	26
11337720 GOOSE LAKE AT WEST SHORE LOG LANDING, NEAR WILLOW RANCH, CALIF.--Continued									
OCT. 11...	1.6	1.4	1150	1090	1.56	46	0	89	23
MAY 22...	--	--	--	1000	1.36	34	0	91	26

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME (MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	SPE- CIFIC CON- DUCT- ANCE (MICRO-	DIS- SOLVED BORON (P)	DIS- SOLVED LEAD (PR)	DIS- SOLVED MOLYB- DENUM (MC)	DIS- SOLVED NICKEL (NT)	DIS- SOLVED VANAD- IUM (V)	DIS- SOLVED ZINC (ZN)

GOOSE LAKE BASIN--Continued  
11337705 GOOSE LAKE AT WILLOW RANCH, CALIF.--Continued

OCT.	11...	1730	8.5	8.8	3200	1	11	2	34	10
MAY	22...	1520	8.6	21.0	3400	--	--	--	--	--

## 11337715 GOOSE LAKE NEAR EVERLY RANCH, NEAR WILLOW RANCH, CALIF.--Continued

OCT.	11...	1720	8.5	10.0	3300	3	12	2	35	20
MAY	22...	1400	8.6	19.5	3200	--	--	--	--	--

## 11337720 GOOSE LAKE AT WEST SHORE LOG LANDING, NEAR WILLOW RANCH, CALIF.--Continued

OCT.	11...	1725	8.7	9.6	3300	3	12	3	35	10
MAY	22...	1570	8.6	19.0	3000	--	--	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA)	BICAR- BONATE (HCO3)	CAR- BONATE (CO3)	ALKA- LINITY AS CACO3	DIS- SOLVED CHLO- RIDE (CL)	HARD- NESS (CA+MG)
			(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)

SACRAMENTO RIVER BASIN  
11345500 SOUTH FORK PIT RIVER NEAR LIKELY, CALIF. (LAT 41°13'51", LONG 120°26'10")<sup>1/</sup>

OCT.	11...	0730	38	5.1	61	0	50	1.2	39
JUNE	13...	1205	112	5.4	63	0	52	.0	40

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO-	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN	DIS- SOLVED BORON (B)	
			(MHOS)				(MG/L)	(MG/L)	
OCT.	11...	0	.4	103	8.0	7.5	1	9.8	0
JUNE	13...	0	.4	105	8.1	16.0	7	8.4	0

<sup>1/</sup> Records furnished by California Department of Water Resources.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

627

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	DIS- CHARGE (CFS)	TOTAL IRON (FF) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCC3) (MG/L)	CAR- BONATE (C03) (MG/L)	ALKA- LITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
------	------	-------------------------	---------------------------------	--------------------------------------	--	--------------------------------------	-----------------------------------	--	---

## SACRAMENTO RIVER BASIN--Continued

11365000 PIT RIVER NEAR MONTGOMERY CREEK, CALIF. (LAT 40°50'36", LONG 122°00'58")<sup>1/</sup>

NOV.									
02...	1045	3520	--	--	10	85	0	70	3.9
JAN.									
23...	1130	8570	--	--	6.6	61	0	50	4.2
MAR.									
14...	1040	7030	630	20	7.6	68	0	56	1.7
MAY									
15...	1025	4290	--	--	--	--	--	--	--
JULY									
19...	1320	3980	--	--	--	--	--	--	--
SEP.									
06...	1130	3100	--	--	--	--	--	--	--

11368000 MCCLLOUD RIVER ABOVE SHASTA LAKE, CALIF. (LAT 40°57'30", LONG 122°13'07")<sup>1/</sup>

NOV.									
02...	1245	A 313	--	--	5.4	62	0	51	1.6
JAN.									
23...	1330	A 1240	--	--	--	--	--	--	--
MAR.									
13...	1000	A 1190	1000	20	3.2	56	0	46	.0
MAY									
15...	1240	A 561	--	--	--	--	--	--	--
JULY									
02...	0800	A 345	--	--	--	--	--	--	--
SEP.									
06...	1330	A 278	--	--	--	--	--	--	--

DATE	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH
------	--	--	---	--	------------------------------------	---	---	--	----

11365000 PIT RIVER NEAR MONTGOMERY CREEK, CALIF.--Continued

NOV.									
02...	--	--	--	--	54	0	.6	148	7.5
JAN.									
23...	--	--	--	--	47	0	.4	110	7.2
MAR.									
14...	.09	.10	.04	.03	45	0	.5	122	7.1
MAY									
15...	--	--	--	--	--	--	--	126	8.0
JULY									
19...	--	--	--	--	--	--	--	137	8.2
SEP.									
06...	--	--	--	--	--	--	--	134	8.0

11368000 MCCLLOUD RIVER ABOVE SHASTA LAKE, CALIF.--Continued

NOV.									
02...	--	--	--	--	43	0	.4	109	7.9
JAN.									
23...	--	--	--	--	--	--	--	91	7.3
MAR.									
13...	.01	.00	.01	.01	46	0	.2	102	7.4
MAY									
15...	--	--	--	--	--	--	--	112	7.5
JULY									
02...	--	--	--	--	--	--	--	108	7.3
SEP.									
06...	--	--	--	--	--	--	--	108	8.1

<sup>1/</sup> Records furnished by California Department of Water Resources.

A Instantaneous discharge.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TEMPER- ATURE (DFG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PP) (UG/L)	TOTAL ZINC (ZN) (UG/L)
------	-----------------------------	------------------------------	------------------------------------	------------------------------------	--	---	-----------------------------------	---------------------------------	---------------------------------

## SACRAMENTO RIVER BASIN--Continued

## 11365000 PIT RIVER NEAR MONTGOMERY CREEK, CALIF.--Continued

NOV. 02...	10.0	1	10.6	--	0	--	--	--	--
JAN. 23...	4.5	30	12.7	--	0	--	--	--	--
MAR. 14...	8.0	6	10.5	0	0	0	0	20	10
MAY 15...	15.0	8	10.3	--	--	--	--	--	--
JULY 19...	19.0	2	10.1	--	--	--	--	--	--
SEP. 06...	16.0	2	11.0	--	--	--	--	--	--

## 11368000 MCCLLOUD RIVER ABOVE SHASTA LAKE, CALIF.--Continued

NOV. 02...	8.5	0	12.0	--	0	--	--	--	--
JAN. 23...	5.5	0	12.3	--	--	--	--	--	--
MAR. 13...	7.0	0	10.5	0	0	0	10	10	20
MAY 15...	15.0	1	9.7	--	--	--	--	--	--
JULY 02...	14.0	0	7.8	--	--	--	--	--	--
SEP. 06...	16.5	1	12.1	--	--	--	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS) $\frac{2}{3}$	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	HARD- NESS (CA, MG) (MG/L)
------	------	---	--	---	--	--	---	-------------------------------------

11377200 SACRAMENTO RIVER AT BEND, CALIF. (LAT 40°15'51", LONG 122°13'19")<sup>1/</sup>

NOV. 24...	0945	15400	7.8	68	0	56	4.7	49
JAN. 05...	0915	13500	--	--	--	--	--	--
MAR. 22...	1450	13700	--	--	--	--	--	--
MAY 18...	0800	12400	4.8	65	0	45	2.0	46
JULY 17...	0755	13000	--	--	--	--	--	--
SEP. 20...	0745	0510	--	--	--	--	--	--

NOV. 24...	0	.5	139	7.3	10.0	4	10.0
JAN. 05...	--	--	139	7.8	6.5	3	11.0
MAR. 22...	--	--	125	7.2	7.5	25	10.4
MAY 18...	1	.3	107	7.4	12.5	4	10.0
JULY 17...	--	--	112	7.4	11.0	3	11.1
SEP. 20...	--	--	111	7.4	11.5	3	11.9

1/ Records furnished by California Department of Water Resources.  
 2/ Records of discharge given for Sacramento River above Bend Bridge,  
 near Red Bluff (sta 11377100).

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

629

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	RICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED CHLO- RIPE (CL) (MG/L)	HARD- NESS (CA+MG) (MG/L)
SACRAMENTO RIVER BASIN--Continued								
11383800	SACRAMENTO RIVER NEAR HAMILTON CITY, CALIF. (LAT 39°45'06", LONG 121°59'40") <sup>1/</sup>							
NOV. 01...	0730	7180	--	--	--	--	--	--
JAN. 22...	0830	53400	--	--	--	--	--	--
MAR. 21...	0935	21100	6.0	64	0	52	3.1	54
MAY 14...	0650	10400	--	--	--	--	--	--
JULY 18...	0800	10000	--	--	--	--	--	--
SEP. 05...	0740	7580	--	--	--	--	--	--
11384000	BIG CHICO CREEK NEAR CHICO, CALIF. (LAT 39°46'35", LONG 121°45'10") <sup>1/</sup>							
NOV. 01...	0815	27	15	110	0	90	12	76
JAN. 22...	0925	395	4.0	45	0	37	4.7	34
MAR. 21...	1115	406	--	--	--	--	--	--
MAY 14...	0740	54	--	--	--	--	--	--
JULY 18...	0835	27	--	--	--	--	--	--
SEP. 05...	0850	27	--	--	--	--	--	--

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
11383800 SACRAMENTO RIVER NEAR HAMILTON CITY, CALIF.--Continued								
NOV. 01...	--	--	128	7.3	11.0	5	10.0	--
JAN. 22...	--	--	130	8.0	8.0	40	12.1	--
MAR. 21...	1	.4	137	7.5	8.5	120	10.0	0
MAY 14...	--	--	128	7.3	16.0	6	9.0	--
JULY 18...	--	--	119	8.0	9.0	3	10.4	--
SEP. 05...	--	--	111	7.4	15.0	3	11.2	--

## 11384000 BIG CHICO CREEK NEAR CHICO, CALIF.--Continued

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
NOV. 01...	0	.7	217	7.6	8.5	0	11.8	200
JAN. 22...	0	.3	76	7.2	5.5	1	12.7	0
MAR. 21...	--	--	96	7.3	7.0	5	11.3	--
MAY 14...	--	--	158	7.8	18.0	2	9.2	--
JULY 18...	--	--	204	8.1	22.0	0	9.1	--
SEP. 05...	--	--	200	8.0	18.0	0	11.1	--

<sup>1/</sup> Records furnished by California Department of Water Resources.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
------	------	---	--	---	--	--------------------------------------	-----------------------------------	--	---	--

SACRAMENTO RIVER BASIN--Continued  
11421500 YUBA RIVER AT MARYSVILLE, CALIF. (LAT 39°08'25", LONG 121°34'35")<sup>1/</sup>

OCT.	03...	0900	a 2590	9.0	4.5	2.7	42	0	34	.8	--
MAR.	02...	1130	a 6930	7.2	3.2	2.5	36	0	30	2.8	--
SEP.	11...	1200	a 1670	7.8	2.8	2.4	37	0	30	1.1	46
11424000 BEAR RIVER NEAR WHEATLAND, CALIF. (LAT 39°00'01", LONG 121°24'21") <sup>1/</sup>											
DEC.	04...	0930	26	10	5.8	3.5	48	0	39	2.9	--
FEB.	01...	1000	1450	6.3	3.0	2.8	29	0	24	4.6	--
JUNE	12...	0845	17	14	8.5	4.5	66	0	54	6.0	--
SEP.	11...	0940	22	9.8	6.4	4.2	52	0	43	4.4	75

DATE	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
------	--	--	------------------------------------	---	---	--	----	-----------------------------	------------------------------	------------------------------------

11421500 YUBA RIVER AT MARYSVILLE, CALIF.--Continued

OCT.	03...	--	--	41	7	.2	76	7.2	11.0	1	11.3
MAR.	02...	--	--	31	2	.2	71	7.2	8.0	15	12.8
SEP.	11...	.06	207	31	1	.2	66	7.3	17.0	0	10.8

11424000 BEAR RIVER NEAR WHEATLAND, CALIF.--Continued

DEC.	04...	--	--	49	10	.2	112	7.3	8.0	3	12.0
FEB.	01...	--	--	28	4	.2	70	7.1	8.0	25	12.1
JUNE	12...	--	--	70	16	.2	140	7.6	20.0	1	11.0
SEP.	11...	.10	4.45	51	9	.3	103	7.3	20.0	1	7.9

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)
------	------	---	--	---	--	--------------------------------------	-----------------------------------	--	---	--	--

11452000 CACHE CREEK NEAR CAPAY, CALIF (LAT 38°43'44", LONG 122°06'15")<sup>1/</sup>

OCT.	12...	0850	2.1	50	40	83	290	0	238	147	--	--
NOV.	15...	0915	765	23	20	37	146	0	120	53	--	--
	30...	0930	50	52	43	88	300	0	246	140	--	--
FEB.	09...	1050	5720	22	19	18	164	0	135	15	--	--
JUNE	21...	1000	511	25	20	19	185	0	152	16	204	.28
SEP.	05...	1345	275	27	20	19	188	0	154	16	167	.23

DATE	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
------	--	------------------------------------	---	---	--	----	-----------------------------	------------------------------	------------------------------------	--

OCT.	12...	--	291	54	2.1	800	7.8	17.0	1	7.2	2000
NOV.	15...	--	142	23	1.4	400	8.0	11.0	180	10.7	1700
	30...	--	309	63	2.2	800	8.2	9.0	1	11.3	3800
FEB.	09...	--	137	3	.7	320	8.0	9.0	300	11.2	700
JUNE	21...	281	146	0	.7	295	8.3	24.0	3	9.2	1000
SEP.	05...	124	150	0	.7	285	8.2	24.0	5	8.8	800

<sup>1/</sup> Records furnished by California Department of Water Resources.  
R Daily discharge given for Yuba River near Marysville (sta 11421000).



## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

631

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINEITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
SACRAMENTO RIVER BASIN										
11451000 CACHE CREEK NEAR LOWER LAKE, CALIF. (LAT 38°55'27", LONG 122°33'53")1/										
NOV. 16...	1200	3.1	11	128	0	105	6.0	.13	.90	.10
DEC. 07...	1125	1.5	--	--	--	--	--	.34	.80	.06
JAN. 19...	1220	3290	7.2	75	0	62	4.8	.32	1.3	.45
FEB. 08...	1030	2700	--	--	--	--	--	.25	.90	.08
APR. 05...	1030	118	--	--	--	--	--	.00	.90	.06
MAY 25...	0840	444	--	--	--	--	--	.10	1.2	.17
JUNE 22...	0855	506	--	--	--	--	--	.05	1.7	.17
JULY 12...	1135	550	--	--	--	--	--	.07	1.5	.08
AUG. 09...	0810	435	--	--	--	--	--	.02	1.0	.14
SEP. 14...	1145	251	--	--	--	--	--	.02	.70	.08

DATE	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
NOV. 16...	.02	98	0	.5	234	7.6	10.0	90	9.5	800
DEC. 07...	.01	--	--	--	280	7.6	--	--	10.1	--
JAN. 19...	.05	66	4	.4	160	7.2	6.5	300	11.1	400
FEB. 08...	.02	--	--	--	265	7.4	7.0	30	11.2	--
APR. 05...	.00	--	--	--	286	8.0	12.0	15	9.8	--
MAY 25...	.04	--	--	--	269	7.4	--	15	--	--
JUNE 22...	.04	--	--	--	262	8.0	24.0	25	7.8	--
JULY 12...	.02	--	--	--	276	7.9	26.0	10	7.6	--
AUG. 09...	.00	--	--	--	260	8.2	26.0	10	8.0	--
SEP. 14...	.01	--	--	--	270	7.7	22.0	2	9.4	--

1/ Records furnished by California Department of Water Resources.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
SACRAMENTO RIVER BASIN--Continued								
11455125	RECLAMATION DISTRICT NO. 2068 DRAIN Z AT HACKMAN ROAD AND ROAD 105, NEAR CLARKSBURG, CALIF. (LAT 38°27'08", LONG 121°40'28")							

MAY								
14...	0807	E15	--	1.6	--	.18	1.7	1.8
JULY								
24...	0845	E25	--	3.3	--	.06	3.2	3.4
AUG.								
27...	1315	E25	--	1.3	--	.05	1.2	1.3
SEP.								
24...	1300	E6.0	8.5	8.3	.07	.19	8.6	8.5

11455135	RECLAMATION DISTRICT NO. 2068 DRAIN X AT MIDWAY ROAD, NEAR CLARKSBURG, CALIF. (LAT 38°24'57", LONG 121°40'15")							
----------	---	--	--	--	--	--	--	--

MAY								
14...	0825	E11	--	1.7	--	.19	1.7	1.9
JULY								
24...	0900	E10	--	2.6	--	.04	2.3	2.6
AUG.								
28...	1330	E20	--	1.5	--	.03	1.3	1.5
SEP.								
24...	1320	E9.0	.31	.22	.02	.10	.33	.32

11455145	RECLAMATION DISTRICT NO. 2068W PUMP NO. 5 SPILL, NEAR COURTLAND, CALIF. (LAT 38°19'44", LONG 121°41'22")							
----------	---	--	--	--	--	--	--	--

MAY								
14...	0852	E22	--	.19	--	.13	.08	.32
JULY								
24...	0915	E5.0	--	1.6	--	.07	1.5	1.7
AUG.								
27...	1345	E25	--	.91	--	.02	.54	.93
SEP.								
24...	1340	E6.0	.46	.38	.06	.15	.52	.53

DATE	TOTAL KJFL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- PHOS) (UNITS)	PH	DIS- SOLVED BORON (B) (MG/L)
------	--	---	---	--	--	---	----	--

11455125	RECLAMATION DISTRICT NO. 2068 DRAIN Z AT HACKMAN ROAD AND ROAD 105, NEAR CLARKSBURG, CALIF.--Continued							
----------	---	--	--	--	--	--	--	--

MAY								
14...	1.7	3.4	.38	406	.55	664	--	470
JULY								
24...	2.4	5.6	.31	370	.50	607	8.2	400
AUG.								
27...	1.7	2.9	.43	319	.43	519	--	--
SEP.								
24...	1.4	10	.35	428	.58	723	--	410

11455135	RECLAMATION DISTRICT NO. 2068 DRAIN X AT MIDWAY ROAD, NEAR CLARKSBURG, CALIF.--Continued							
----------	--	--	--	--	--	--	--	--

MAY								
14...	1.6	3.3	.42	416	.57	676	--	470
JULY								
24...	1.8	4.1	.54	386	.53	605	--	390
AUG.								
28...	.98	2.3	.41	282	.38	446	--	--
SEP.								
24...	1.1	1.4	.47	236	.32	391	--	230

11455145	RECLAMATION DISTRICT NO. 2068W PUMP NO. 5 SPILL, NEAR COURTLAND, CALIF.--Continued							
----------	--	--	--	--	--	--	--	--

MAY								
14...	2.0	2.1	.87	409	.56	641	--	460
JULY								
24...	2.2	3.7	.54	326	.44	497	--	310
AUG.								
27...	1.5	2.0	.77	298	.41	454	--	--
SEP.								
24...	1.3	1.8	.55	226	.31	389	--	200

E Estimated by Solano Irrigation District.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

633

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)

## SACRAMENTO RIVER BASIN--Continued

11455235 ULATIS CREEK AT LEWIS ROAD, NEAR ELMIRA, CALIF. (LAT 38°22'25", LONG 121°53'44")

OCT.								
31...	1035	E.50	--	5.6	--	.20	--	5.8
MAY								
14...	1015	E6.0	--	.76	--	.34	1.1	1.1
JULY								
24...	1040	E7.0	--	2.3	--	.07	2.4	2.4
AUG.								
27...	1305	E7.0	--	.45	--	.00	.45	.45
SEP.								
24...	1515	E6.0	.34	.53	.02	.11	.64	.64

11455255 SWEENEY CREEK AT WEBER ROAD, NEAR DIXON, CALIF. (LAT 38°24'08", LONG 121°51'39")

MAY								
14...	1000	E30	--	.71	--	.10	.81	.81
JULY								
24...	1030	E30	--	1.5	--	.11	1.6	1.6
AUG.								
27...	1030	E40	--	1.3	--	.02	1.3	1.3
SEP.								
24...	1445	E25	1.1	.78	.02	.15	1.1	.93

11455257 GIBSON CANYON CREEK AT SOUTHERN PACIFIC RAILROAD, NEAR ELMIRA, CALIF.  
(LAT 38°23'28", LONG 121°52'21")

OCT.								
31...	1025	E1.0	--	1.4	--	.62	--	2.0
MAY								
14...	1007	E4.0	--	.09	--	.08	.17	.17
JULY								
24...	1035	E10	--	1.1	--	.07	1.2	1.2
AUG.								
27...	1300	F20	--	3.4	--	.02	3.4	3.4
SEP.								
24...	1506	E15	.00	.00	.01	.02	.02	.02

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DIS- SOLVED BORON (P) (UG/L)

11455235 ULATIS CREEK AT LEWIS ROAD, NEAR ELMIRA, CALIF.--Continued

OCT.							
31...	1.9	7.7	5.5	664	.90	1040	550
MAY							
14...	.51	1.5	.11	229	.31	353	170
JULY							
24...	.73	2.9	.11	249	.34	359	160
AUG.							
27...	.30	.37	.07	189	.26	332	--
SEP.							
24...	.63	.99	.13	218	.30	349	170

11455255 SWEENEY CREEK AT WEBER ROAD, NEAR DIXON, CALIF.--Continued

MAY							
14...	.66	1.3	.11	232	.32	371	190
JULY							
24...	.95	2.4	.22	297	.40	484	230
AUG.							
27...	.47	1.6	.10	232	.32	373	--
SEP.							
24...	.33	1.4	.12	240	.33	384	190

11455257 GIBSON CANYON CREEK AT SOUTHERN PACIFIC RAILROAD, NEAR ELMIRA, CALIF.--Continued

OCT.							
31...	5.5	7.5	.60	386	.53	655	150
MAY							
14...	.93	.97	.35	226	.31	356	180
JULY							
24...	1.0	2.1	.11	232	.32	378	180
AUG.							
27...	1.3	1.5	.45	250	.34	432	--
SEP.							
24...	3.5	3.5	.72	286	.39	449	170

E Estimated by Solano Irrigation District.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
SACRAMENTO RIVER BASIN--Continued								
11455261	ULATIS CREEK AT BROWNS ROAD, NEAR ELMIRA, CALIF. (LAT 38°18'24", LONG 121°47'37")							
MAY 14...	0940	E25	--	.55	--	.08	.63	.63
JULY 24...	1000	E25	--	1.7	--	.06	1.8	1.8
AUG. 27...	1415	E20	--	.61	--	.04	.65	.65
SEP. 24...	1440	E20	1.1	.92	.10	.18	1.2	1.1
11455265	ALAMO CREEK AT BROWNS DAM, NEAR ELMIRA, CALIF. (LAT 38°19'44", LONG 121°51'32")							
OCT. 31...	1045	E2.0	--	1.8	--	1.3	--	3.1
MAY 14...	1030	E20	--	1.1	--	.11	1.2	1.2
JULY 24...	1040	E20	--	.15	--	.02	.17	.17
AUG. 27...	1315	E20	--	1.2	--	.10	1.3	1.3
SEP. 24...	1530	E10	1.4	1.3	.08	.35	1.6	1.6
11455272	RECLAMATION DISTRICT NO. 2068 DRAIN V AT SWAN ROAD, NEAR DIXON, CALIF. (LAT 38°21'29", LONG 121°44'20")							
MAY 14...	0930	E20	--	.54	--	.11	.65	.65
JULY 24...	0930	E25	--	.56	--	.02	.58	.58
AUG. 27...	1415	E20	--	1.7	--	.08	1.8	1.8
SEP. 24...	1425	E10	1.2	1.1	.08	.17	1.3	1.3

DATE	TOTAL KJFL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DIS- SOLVED BORON (B) (UG/L)
------	--	---	---	--	--	--	--

## 11455261 ULATIS CREEK AT BROWNS ROAD, NEAR ELMIRA, CALIF.--Continued

MAY 14...	1.3	1.8	.20	302	.41	497	230
JULY 24...	1.9	3.5	.48	374	.51	622	310
AUG. 27...	1.3	1.7	.63	334	.45	529	--
SEP. 24...	1.6	2.8	.79	372	.51	618	270

## 11455265 ALAMO CREEK AT BROWNS DAM, NEAR ELMIRA, CALIF.--Continued

OCT. 31...	23	26	12	1060	1.44	1620	870
MAY 14...	.79	1.8	.39	268	.36	415	230
JULY 24...	.50	.60	.06	240	.33	346	170
AUG. 27...	1.8	2.3	.96	252	.34	417	--
SEP. 24...	1.6	3.1	1.2	266	.36	453	230

11455272 RECLAMATION DISTRICT NO. 2068 DRAIN V AT SWAN ROAD,  
NEAR DIXON, CALIF.--Continued

MAY 14...	1.4	1.9	.45	328	.45	532	330
JULY 24...	.61	1.0	.22	169	.23	266	130
AUG. 27...	.70	2.3	.32	323	.44	540	--
SEP. 24...	1.1	2.4	.39	322	.44	551	280

E Estimated by Solano Irrigation District.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

635

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN-	TOTAL	DIS-	TOTAL	DIS-	TOTAL	DIS-
		TANE- OUS DIS- CHARGE (CFS)	NITRATE (N) (MG/L)	SOLVED NITRATE (N) (MG/L)	NITRATE (N) (MG/L)	SOLVED NITRATE (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)	NITRITE PLUS NITRATE (N) (MG/L)

## SACRAMENTO RIVER BASIN--Continued

11455283 NOONAN DRAIN AT HAY ROAD, NEAR ELMIRA, CALIF. (LAT 38°18'57", LONG 121°53'02")

MAY								
14...	1036	E4.0	--	.27	--	.08	.35	.35
JULY								
24...	1100	E6.0	--	2.3	--	.07	2.4	2.4
AUG.								
27...	1330	E2.0	--	.52	--	.03	.55	.55
SEP.								
24...	1540	E2.0	.37	.19	.05	.17	.42	.36

11455580 ALONZO DRAIN AT CORDELIA ROAD, NEAR FAIRFIELD, CALIF.  
(LAT 38°13'50", LONG 122°03'56")

MAY								
14...	1500	E1.5	--	8.8	--	.12	8.9	8.9
JULY								
24...	1620	--	--	1.3	--	.04	1.3	1.3
AUG.								
28...	1520	E5.0	--	4.1	--	.02	4.1	4.1
SEP.								
25...	1130	--	.16	.01	.01	.17	.18	.18

11455600 RAINES DRAIN AT CHADBOURNE ROAD, NEAR FAIRFIELD, CALIF.--Continued

MAY								
14...	1505	E5.0	--	.54	--	.09	.63	.63
JULY								
24...	1550	E5.0	--	5.3	--	.02	5.3	5.3
AUG.								
28...	1540	E3.0	--	.30	--	.01	.35	.31
SEP.								
25...	1140	E5.0	.20	.00	.01	.15	.21	.13

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	DIS- SOLVED BORON (B) (UG/L)
------	--	---	---	--	--	--	--

11455283 NOONAN DRAIN AT HAY ROAD, NEAR ELMIRA, CALIF.--Continued

MAY							
14...	.56	.80	.03	208	.28	319	180
JULY							
24...	.88	3.1	.38	293	.40	430	230
AUG.							
27...	.95	1.1	.16	243	.33	376	--
SEP.							
24...	.45	.87	.11	186	.25	307	150

11455580 ALONZO DRAIN AT CORDELIA ROAD, NEAR FAIRFIELD, CALIF.--Continued

MAY							
14...	.52	9.3	.01	791	1.08	1400	1800
JULY							
24...	.48	1.7	.05	229	.31	332	190
AUG.							
28...	.96	4.6	.04	766	1.04	1110	--
SEP.							
25...	.61	.78	.06	414	.56	694	700

11455600 RAINES DRAIN AT CHADBOURNE ROAD, NEAR FAIRFIELD, CALIF.  
(LAT 38°12'46", LONG 122°04'56")

MAY							
14...	.41	.79	.01	852	1.16	1380	570
JULY							
24...	.49	5.7	.02	739	1.01	1080	1300
AUG.							
28...	.44	.79	.04	782	1.06	998	--
SEP.							
25...	.43	.64	.08	864	1.18	1500	520

E Estimated by Solano Irrigation District.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
NAPA RIVER BASIN 11458000 NAPA RIVER NEAR NAPA, CALIF. (LAT 38°22'06", LONG 122°18'08") <u>1/</u>												
OCT. 12...	1440	11	28	--	24	--	208	0	171	--	21	--
NOV. 15...	1145	348	14	--	12	--	75	0	62	--	10	--
DEC. 21...	1100	275	16	--	13	--	85	0	70	--	12	--
FEB. 16...	1345	1200	13	--	8.9	--	85	0	70	--	8.5	--
APR. 11...	1115	118	20	--	15	--	138	0	113	--	9.3	--
JUNE 14...	1230	13	28	--	20	--	187	2	157	--	15	--
AUG. 17...	1200	1.7	28	26	23	1.6	202	4	172	30	17	.32

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT. 12...	--	--	170	0	--	--	380	7.7	18.0	5	8.9	--
NOV. 15...	--	--	73	11	--	--	200	7.2	13.0	45	10.0	--
DEC. 21...	--	--	87	17	--	--	220	7.3	12.0	20	10.1	--
FEB. 16...	--	--	78	8	--	--	185	7.3	11.0	30	10.9	--
APR. 11...	--	--	124	11	--	--	270	7.6	18.0	3	10.2	--
JUNE 14...	197	.27	170	13	--	--	320	8.2	20.0	4	15.7	--
AUG. 17...	255	.35	177	5	22	.8	360	7.9	21.0	0	11.1	400

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)
EEL RIVER BASIN 11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CALIF. (LAT 39°23'18", LONG 123°06'54")									
NOV. 01...	1130	3.3	.00	.00	.00	--	--	.03	.15
FEB. 12...	1230	2440	.01	.00	.01	--	.19	.19	.00
APR. 10...	1330	620	.00	.00	.00	--	.05	--	.24
SEP. 12...	0830	2.1	.01	.00	.01	.9	.04	--	.11

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL NITRO- GEN IN BOTTOM DEPOS- ITS (N) (MG/KG)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM DE- POSITS (MG/KG)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MA- TERIAL (C) (G/KG)
NOV. 01...	.18	.02	--	.01	--	192	11.5	2.0	--
FEB. 12...	.19	.13	--	.01	--	112	7.0	2.5	--
APR. 10...	.29	.02	--	.01	--	139	12.5	1.0	--
SEP. 12...	.15	.04	55	.03	35	166	--	2.5	3.2

1/ Records furnished by California Department of Water Resources.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

637

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)
------	------	------------------	--	--------------------------	--	---------------	---	---------------	---	---------------

## EEL RIVER BASIN

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CALIF.--Continued

FEB. 12...	1230	.00	--	.0	--	.00	--	.00	--	.00
APR. 10...	1330	.00	--	.0	--	.00	--	.00	--	.00
SEP. 12...	0830	.00	.0	.0	0	.00	.0	.00	.0	.00

DATE	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON (UG/L)	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
FEB. 12...	--	.00	.00	--	.00	--	.00	--	.00
APR. 10...	--	.00	.00	--	.00	--	.00	--	.00
SEP. 12...	.0	.00	.00	.0	.00	.0	.00	.0	.00

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
FEB. 12...	.00	--	.00	.00	.00	.0	--	.00	.00	.00
APR. 10...	.00	--	.00	.00	.00	.0	--	.00	.00	.00
SEP. 12...	.00	.0	.00	.00	.00	.0	0	.00	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE- POSITS (UG/G)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)
NOV. 01...	1130	2	--	1	1	1	--	0
FEB. 12...	1230	0	--	0	40	1	--	0
APR. 10...	1330	6	--	0	0	0	--	0
SEP. 12...	0830	1	5	3	0	1	0	0

DATE	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE- POSITS (UG/G)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	TOTAL LEAD (PB) (UG/L)
NOV. 01...	--	0	1	0	--	6	4	--	1
FEB. 12...	--	0	80	1	--	50	4	--	200
APR. 10...	--	0	<20	1	--	90	3	--	<100
SEP. 12...	37	0	<25	1	8	<10	2	19	<50

DATE	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE- POSITS (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE- POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE- POSITS (UG/G)
NOV. 01...	1	--	--	--	--	50	0	--
FEB. 12...	2	--	.1	.0	--	60	10	--
APR. 10...	2	--	--	--	--	10	0	--
SEP. 12...	3	10	.0	.0	.0	30	10	28

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)

MAD RIVER BASIN

11480390 MAD RIVER ABOVE RUTH RESERVOIR, NEAR FOREST GLEN, CALIF. (LAT 40°18'51", LONG 123°21'44")

OCT.								
16...	1545	5.0	--	.29	--	.11	.08	.09
NOV.								
16...	1430	270	--	.06	--	.02	.12	.08
DEC.								
21...	1210	620	--	.18	.08	.08	.01	.00
JAN.								
30...	1110	430	--	.03	.07	.07	.29	.13
FEB.								
21...	1130	200	.01	.01	.16	.10	.00	.02
MAR.								
26...	1240	300	.00	.00	.10	.10	.30	.00
MAY								
15...	1035	30	.00	.00	.12	.05	.00	.00
JULY								
10...	1325	3.0	.01	.08	.16	.12	.21	.00

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)

OCT.							
16...	.19	.20	.48	.04	.00	--	1.0
NOV.							
16...	.14	.10	.20	.07	.01	9.5	3.0
DEC.							
21...	.09	.04	.27	.06	.02	--	2.0
JAN.							
30...	.36	.20	.39	.07	.06	6.0	.5
FEB.							
21...	.12	.12	.13	.02	.01	6.5	.5
MAR.							
26...	.40	.06	.40	.00	.01	9.5	6.0
MAY							
15...	.11	.05	.11	.00	.00	12.5	2.0
JULY							
10...	.37	.10	.38	.02	.01	22.0	.0

DATE	TIME	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)

## HUMBOLDT NURSERY AT MCKINLEYVILLE, CALIF. (LAT 41°00'03", LONG 124°05'05".02)

FEB., 1973										
22...	1045	.0	22	.0	6.3	10	2.5	24	.0	.0
JUNE										
01...	1400	.0	25	.0	.0	6.3	.7	18	.0	.0

DATE	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	MALA- THION IN BOTTOM DE- POSITS (UG/KG)	METHYL PARA- THION IN BOT- TOM DE- POSITS (UG/KG)	PARA- THION IN BOTTOM DE- POSITS (UG/KG)	PCB IN BOTTOM DE- POSITS (UG/KG)	2,4-D IN BOTTOM DE- POSITS (UG/KG)	2,4,5-T IN BOTTOM DE- POSITS (UG/KG)	SILVEX IN BOTTOM DE- POSITS (UG/KG)

FEB., 1973									
22...	.0	.0	.0	.0	.0	0	.0	.0	.0
JUNE									
01...	.0	.0	.0	.0	.0	0	.0	2.2	.0



## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

639

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HC03) (MG/L)	CAR- BONATE (C03) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
KLAMATH RIVER BASIN									
11519500 SCOTT RIVER NEAR FORT JONES, CALIF. (LAT 41°38'27", LONG 123°00'50") <sup>1/</sup>									
NOV. 03...	1215	99	--	--	--	--	--	--	--
JAN. 24...	1220	728	--	--	--	--	--	--	--
MAR. 13...	1645	438	220	20	3.4	110	0	90	1.6
MAY 16...	1130	1660	--	--	--	--	--	--	--
JULY 01...	1500	96	--	--	--	--	--	--	--
SEP. 07...	1020	24	--	--	4.6	145	0	119	7.3

DATE	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
NOV. 03...	--	--	--	--	--	--	--	282	7.6
JAN. 24...	--	--	--	--	--	--	--	206	7.2
MAR. 13...	.30	.10	.01	.01	93	3	.2	187	7.5
MAY 16...	--	--	--	--	--	--	--	95	7.2
JULY 01...	--	--	--	--	--	--	--	255	8.1
SEP. 07...	--	--	--	--	126	7	.2	258	8.0

DATE	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV. 03...	9.0	2	10.6	--	--	--	--	--	--
JAN. 24...	2.5	10	11.4	--	--	--	--	--	--
MAR. 13...	7.0	0	10.5	0	0	0	0	10	10
MAY 16...	12.0	7	9.8	--	--	--	--	--	--
JULY 01...	22.0	1	12.5	--	--	--	--	--	--
SEP. 07...	15.5	0	12.3	--	100	--	--	--	--

<sup>1/</sup> Records furnished by California Department of Water Resources.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## SEDIMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE- MENT DIS- CHARGE (MG/L)	SUS- PENDE- MENT DIS- CHARGE (T/DAY)	SUS- SED. FALL DIAM. % FINER THAN .004 MM	SUS- SED. FALL DIAM. % FINER THAN .008 MM			
SAN LORENZO RIVER BASIN										
11160020 SAN LORENZO RIVER NEAR BOULDER CREEK, CALIF. (LAT 37°12'24", LONG 122°08'38")										
JAN. 16...	1545	10.5	163	3250	1430	20	25			
		SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM			
JAN. 16...	31	40	48	60	84	98	100			
DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE- MENT DIS- CHARGE (MG/L)	SUS- PENDE- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM		
PESCADERO CREEK BASIN										
11162540 BUTANO CREEK NEAR PESCADERO, CALIF. (LAT 37°14'01", LONG 122°21'56")										
DEC. 06...	1400	8.0	24	68	4.4	--	--	--		
06...	1550	8.0	22	140	8.3	--	--	--		
JAN. 16...	1430	11.5	946	7380	18900	20	21	28		
18...	1300	11.0	753	4670	9500	17	20	27		
		SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM		
DEC. 06...	--	--	--	--	--	--	--	--		
06...	--	--	--	--	--	--	--	--		
JAN. 16...	33	48	62	89	96	99	100			
18...	34	43	56	82	95	99	100			
DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDIMENT DIS- CHARGE (MG/L)	TOTAL SEDIMENT SIEVE DIAM. % FINER THAN .062 MM	TOTAL SEDIMENT SIEVE DIAM. % FINER THAN .125 MM	TOTAL SEDIMENT SIEVE DIAM. % FINER THAN .250 MM	TOTAL SEDIMENT SIEVE DIAM. % FINER THAN .500 MM	TOTAL SEDIMENT SIEVE DIAM. % FINER THAN 1.00 MM	TOTAL SEDIMENT SIEVE DIAM. % FINER THAN 2.00 MM
CALABAZAS CREEK BASIN										
11169581 CALABAZAS CREEK AT MT. EDEN ROAD, NEAR SARATOGA, CALIF. (LAT 37°16'03", LONG 122°03'31")										
MAR. 06...	0940	9.5	2.2	630	3.7	82	87	93	96	97
06...	1105	9.5	1.8	222	1.1	81	86	91	100	--
11169586 CALABAZAS CREEK TRIBUTARY NO. 3 AT MT EDEN ROAD, NEAR SARATOGA, CALIF. (LAT 37°15'54", LONG 122°03'19")										
MAR. 06...	1000	11.0	1.1	209	.62	55	59	62	66	74
06...	1115	10.5	.72	66	.13	65	67	73	80	100

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

641

## SEDIMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

CALABAZAS CREEK BASIN  
11169588 CALABAZAS CREEK TRIBUTARY NO. 4 AT MT EDEN ROAD, NEAR SARATOGA, CALIF.  
(LAT 37°15'54", LONG 122°03'18")

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE MENT (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
MAR.							
06...	1035	10.5	4.1	2810	31		66
06...	1140	11.0	2.6	2330	16		66

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
MAR.								
06...	1015	11.0	5	4.1	6.0	36	1	5
06...	1115	10.5	4	2.6	4.4	24	1	8

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
MAR.							
06...	15	22	30	50	80	95	100
06...	30	38	45	59	82	98	100

11169589 CALABAZAS CREEK TRIBUTARY NO. 5 AT PIERCE ROAD, NEAR SARATOGA, CALIF.  
(LAT 37°15'54", LONG 122°03'10")

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDI- MENT (MG/L)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)
MAR.							
06...	1050	13.0	.07	85	.02		89
06...	1200	13.0	.06	66	.01		94

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
MAR.									
06...	1050	13.0	.07	85	.02		89		
06...	1200	13.0	.06	66	.01		94		

11169590 CALABAZAS CREEK AT VIA REGINA, NEAR SARATOGA, CALIF.  
(LAT 37°16'00", LONG 122°03'04")

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT.									
11...	0715	--	E1.2	11600	38	--	--	--	--
11...	0905	15.0	E6.6	13400	239	--	--	--	--
11...	0910	15.0	E8.4	15800	358	--	--	--	--
NOV.									
13...	1545	11.5	32	19900	1720	32	35	37	49

DATE	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT.								
11...	--	--	100	--	--	--	--	--
11...	--	--	94	--	98	--	100	--
11...	--	--	--	--	--	--	--	--
NOV.								
13...	61	71	--	83	--	91	--	98

DATE	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT.								
11...	--	--	100	--	--	--	--	--
11...	--	--	94	--	98	--	100	--
11...	--	--	--	--	--	--	--	--
NOV.								
13...	61	71	--	83	--	91	--	98

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## SEDIMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
CALABAZAS CREEK BASIN										
11169610 PROSPECT CREEK AT MARIA LANE, NEAR SARATOGA, CALIF. (LAT 37°17'38", LONG 122°02'34")										
OCT.										
11...	0645	--	E3.0	3480	28	--	--	--	--	--
11...	0745	15.0	E1.5	587	2.4	62	78	88	95	97
11...	1045	15.0	E.26	146	.10	--	--	--	--	--
JAN.										
16...	0930	11.5	60	14400	2330	--	--	--	--	--
16...	1010	11.5	49	11300	1500	25	29	37	45	57
16...	1110	11.5	33	6800	606	28	36	44	55	65
16...	1225	11.5	18	4570	222	--	--	--	--	--
16...	1430	12.0	6.6	2780	50	--	--	--	--	--
16...	1700	10.0	4.1	1510	17	38	48	57	67	73

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT.									
11...	--	99	--	100	--	--	--	--	--
11...	--	98	--	99	--	99	--	100	--
11...	--	98	--	98	--	100	--	--	--
JAN.									
16...	--	55	--	--	--	--	--	--	--
16...	66	--	80	--	94	--	99	--	100
16...	75	--	88	--	98	--	100	--	--
16...	--	69	--	--	--	--	--	--	--
16...	--	64	--	--	--	--	--	--	--
16...	79	--	84	--	92	--	98	--	100

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
JAN.								
16...	0940	11.5	4	56	11	22	2	6
16...	1015	11.5	4	48	11	25	1	6
16...	1105	11.5	4	36	11	19	1	5
16...	1225	11.5	4	18	11	8.4	1	4
16...	1430	12.0	3	6.6	9.5	6.8	--	3
16...	1700	10.0	4	4.1	9.5	9.1	--	1
DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
JAN.								
16...	28	72	85	91	94	97	100	--
16...	23	48	59	73	84	92	100	--
16...	25	55	67	74	81	88	96	100
16...	32	75	83	87	91	94	100	--
16...	28	82	93	96	98	100	--	--
16...	4	15	29	57	86	97	100	--

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

643

## SEDIMENT ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDIM- ENT (MG/L)	TOTAL SEDIM- ENT CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .062 MM	TOTAL SED. FALL DIAM. % FINER THAN .062 MM
DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDIM- ENT (MG/L)	TOTAL SEDIM- ENT CHARGE (T/DAY)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	
GUADALUPE RIVER BASIN							
11169500	SARATOGA CREEK AT SARATOGA, CALIF. (LAT 37°15'16", LONG 122°02'18")						
NOV., 1972							
	13...	0930	10.0	6.9	146	2.7	
	13...	1345	11.0	24	2660	172	
	13...	1415	--	28	3700	280	
	13...	1500	11.0	38	3720	382	
DEC.							
	03...	1500	10.5	.45	1	.00	
	06...	1500	8.0	5.3	35	.50	
	07...	0730	6.0	3.8	10	.10	
CALABAZAS CREEK BASIN							
11	PROSPECT CREEK TRIBUTARY NEAR SARATOGA, CALIF. (LAT 37°17'38", LONG 122°02'34")						
OCT.							
	11...	0750	16.0	E.15	72	.03	89
	11...	1050	17.0	E.05	17	.00	93
JAN.							
	16...	0935	--	.90	441	1.1	80
	16...	1015	--	.58	376	.59	99
	16...	1105	--	.39	398	.42	92
	16...	1215	15.5	.22	234	.14	100
DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDIM- ENT (MG/L)	TOTAL SEDIM- ENT CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .062 MM	TOTAL SED. FALL DIAM. % FINER THAN .062 MM
OCT.							
	11...	--	92	--	100	--	--
	11...	--	100	--	--	--	--
JAN.							
	16...	90	--	95	--	98	100
	16...	99	--	100	--	--	--
	16...	--	96	--	99	--	100
	16...	--	--	--	--	--	--
PERALTA CREEK BASIN							
11181300	PERALTA CREEK AT OAKLAND, CALIF. (LAT 37°46'59", LONG 122°13'06")						
SEP., 1972							
	06...	1000	17.0	.15	1	.00	
	26...	2205	17.5	5.8	113	1.8	
	26...	2330	17.0	9.8	240	6.4	
	26...	2345	17.0	20	172	9.3	
	27...	0050	17.0	9.8	79	2.1	
OCT.							
	09...	1440	--	57	3250	500	
	09...	2115	16.5	1.9	34	.17	
	11...	1050	18.0	76	365	75	
	11...	1105	16.0	48	253	33	
	11...	1355	17.0	5.7	93	1.4	
DEC.							
	03...	2030	--	12	426	14	
	04...	0945	10.5	2.4	22	.14	
	06...	0230	--	72	3540	688	
	06...	0345	--	8.6	775	18	
	06...	1115	9.5	1.0	11	.03	
JAN., 1973							
	17...	2135	11.0	69	1270	237	
	17...	2345	10.0	113	1870	571	
	18...	1430	--	24	409	27	
MAR.							
	19...	1500	11.5	20	232	13	
	19...	1720	11.5	34	707	65	
	19...	1840	10.5	12	237	7.7	

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## SEDIMENT ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS- SED. FALL DIAM. % FINER THAN .002 MM	SUS- SED. FALL DIAM. % FINER THAN .004 MM	SUS- SED. FALL DIAM. % FINER THAN .008 MM	SUS- SED. FALL DIAM. % FINER THAN .016 MM
------	------	-----------------------------	---	--	---	---	---	---	---

## PERALTA CREEK BASIN

11181300 PERALTA CREEK AT OAKLAND, CALIF.--Continued

SEP., 1972									
26...	2205	17.5	5.8	113	1.8	--	--	--	--
26...	2330	17.0	9.8	240	6.4	--	--	--	--
26...	2345	17.0	20	172	9.3	--	--	--	--
OCT.									
09...	1440	--	57	3250	500	17	18	25	36
11...	1050	18.0	76	365	75	--	--	--	--
11...	1105	16.0	48	253	33	--	--	--	--
11...	1355	17.0	5.7	93	1.4	--	--	--	--
MAR., 1973									
19...	1720	11.5	34	707	65	24	29	35	44

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS- SED. FALL DIAM. % FINER THAN .002 MM	SUS- SED. FALL DIAM. % FINER THAN .004 MM	SUS- SED. FALL DIAM. % FINER THAN .008 MM	SUS- SED. FALL DIAM. % FINER THAN .016 MM
------	------	-----------------------------	---	--	---	---	---	---	---

SEP., 1972									
26...	--	--	99	--	100	--	--	--	--
26...	--	96	--	100	--	--	--	--	--
26...	--	--	99	--	100	--	--	--	--
OCT.									
09...	46	54	--	66	--	77	--	90	100
11...	--	--	100	--	--	--	--	--	--
11...	--	--	98	--	98	--	100	--	--
11...	--	--	100	--	--	--	--	--	--
MAR., 1973									
19...	56	67	--	80	--	94	--	100	--

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS- SED. FALL DIAM. % FINER THAN .002 MM	SUS- SED. FALL DIAM. % FINER THAN .004 MM	SUS- SED. FALL DIAM. % FINER THAN .008 MM	SUS- SED. FALL DIAM. % FINER THAN .016 MM	SUS- SED. FALL DIAM. % FINER THAN .031 MM	SUS- SED. FALL DIAM. % FINER THAN .062 MM	SUS- SED. FALL DIAM. % FINER THAN .125 MM	SUS- SED. FALL DIAM. % FINER THAN .250 MM
------	------	-----------------------------	---	--	---	---	---	---	---	---	---	---	---

## SACRAMENTO RIVER BASIN

YOLO BYPASS AT LIBERTY ISLAND, CALIF. (WEST), (LAT 38°16'27", LONG 121°41'36")

JAN.													
12...	1400	10.0	83	81	93	94	95	95	95	96	100		

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS- SED. FALL DIAM. % FINER THAN .002 MM	SUS- SED. FALL DIAM. % FINER THAN .004 MM	SUS- SED. FALL DIAM. % FINER THAN .008 MM	SUS- SED. FALL DIAM. % FINER THAN .016 MM	SUS- SED. FALL DIAM. % FINER THAN .031 MM
------	------	-----------------------------	---	--	---	---	---	---	---	---

YOLO BYPASS AT LIBERTY ISLAND, CALIF. (COMBINED), (LAT 38°15'08", LONG 121°40'17")

JAN.										
13...	1230	8.5	328	69	72	78	96	98		
15...	1305	8.0	481	67	83	93	95	97		
17...	1340	9.5	506	68	86	95	97	97		
19...	1440	9.0	596	63	80	92	97	98		
20...	1040	8.5	606	64	76	86	87	89		
22...	1210	8.0	370	70	71	81	84	97		
23...	1220	8.0	265	74	84	92	94	99		
25...	1130	7.5	175	81	94	97	99	97		
27...	1055	7.0	137	80	91	95	96	99		
30...	1155	8.0	95	78	90	97	99	99		
FEB.										
02...	1145	9.0	97	83	93	97	99	99		
11...	0910	10.5	385	79	87	96	97	98		
14...	1200	10.0	264	77	84	89	92	97		
20...	1200	12.0	111	64	82	88	92	95		
MAR.										
01...	1040	12.5	159	80	95	98	99	99		
03...	1005	12.0	144	69	85	94	97	98		

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

645

## SEDIMENT ANALYSES, SEPTEMBER 1972 TO SEPTEMBER 1973

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
------	---	--	---	--	--	--	--	--

## YOLO BYPASS AT LIBERTY ISLAND, CALIF. (COMBINED)--Continued

JAN.								
13...	--	99	--	99	--	100	--	--
15...	--	98	--	99	--	100	--	--
17...	--	99	--	100	--	--	--	--
19...	--	99	--	99	--	100	--	--
20...	93	--	96	--	99	--	100	--
22...	--	98	--	99	--	99	--	100
23...	--	99	--	99	--	100	--	--
25...	--	99	--	100	--	--	--	--
27...	--	97	--	98	--	99	--	100
30...	--	99	--	99	--	100	--	--
FEB.								
02...	--	99	--	100	--	--	--	--
11...	--	99	--	99	--	100	--	--
14...	--	99	--	100	--	--	--	--
20...	--	96	--	96	--	100	--	--
MAR.								
01...	--	99	--	99	--	100	--	--
03...	--	98	--	98	--	100	--	--

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE DIS- MENT (MG/L)	SUS- PENDE SEDIM- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
------	------	-----------------------------	---	---	--	---	---	---	---

## SAN RAFAEL CREEK BASIN

11459790 SAN RAFAEL CREEK AT SIRARD LAND, AT SAN RAFAEL, CALIF. (LAT 37°59'04", LONG 122°32'58")

OCT.									
02...	1430	18.0	.01	6	.00	--	--	--	--
NOV.									
13...	1130	12.0	21	564	32	29	41	49	58
DEC.									
07...	1420	--	2.8	48	.36	--	--	--	--
JAN.									
12...	1315	12.5	5.3	39	.56	--	--	--	--
18...	1125	11.5	9.5	82	2.1	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
OCT.									
02...	--	--	95	--	100	--	--	--	--
NOV.									
13...	63	73	--	81	--	97	--	100	--
DEC.									
07...	--	--	--	--	--	--	--	--	--
JAN.									
12...	--	--	--	--	--	--	--	--	--
18...	--	--	77	--	80	--	90	--	100

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## SEDIMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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
SAN RAFAEL CREEK BASIN							
11459790	SAN RAFAEL CREEK AT SIRARD LANE, AT SAN RAFAEL, CALIF.--Continued						

OCT.							
02...	1425	18.0	1	.01	1	3	6
02...	1430	18.0	1	.01	1	2	6
02...	1435	18.0	1	.01	4	9	22

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
OCT.							
02...	11	16	24	33	44	70	100
02...	12	18	26	33	47	67	100
02...	38	51	62	72	81	91	100

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE- DISE- MENT (MG/L)	SUS- PENDE- DISE- MENT (T/DAY)
11459800 SAN RAFAEL CREEK AT SAN RAFAEL, CALIF. (LAT 37°58'22", LONG 122°32'07")					
OCT.					
11...	1005	17.0	1.1	12	.04
NOV.					
13...	1055	12.0	56	309	47
13...	1220	12.0	127	815	279
13...	1500	12.0	136	1090	400
DEC.					
07...	1140	9.5	4.2	50	.57
JAN.					
09...	0940	9.5	60	315	51
12...	1150	13.0	22	40	2.4
18...	1025	11.5	55	198	29

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE- DISE- MENT (MG/L)	SUS- PENDE- DISE- MENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
13...	1500	12.0	136	1090	400	28	38	49	62	66
JAN.										
12...	1150	13.0	22	40	2.4	--	--	--	--	--
18...	1025	11.5	55	198	29	--	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.									
13...	82	--	92	--	98	--	100	--	--
JAN.									
12...	--	100	--	--	--	--	--	--	--
18...	--	78	--	86	--	93	--	98	100



SEDIMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT MENT (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
SAN RAFAEL CREEK BASIN										
11459810	IRWIN CREEK TRIBUTARY AT SAN RAFAEL, CALIF. (LAT 37°59'28", LONG 122°30'29")									
NOV.										
13...	1400	--	.05	162	.02	--	--	--	--	--
13...	1414	--	.07	158	.03	--	--	--	--	--
13...	1428	--	.10	142	.04	--	--	--	--	--
13...	1433	--	.18	150	.07	--	--	--	--	--
13...	1442	--	.24	220	.14	78	84	93	98	100
13...	1446	--	.30	178	.14	--	--	--	--	--
13...	1500	--	.28	180	.14	--	--	--	--	--
13...	1520	--	.30	62	.05	--	--	--	--	--
JAN.										
12...	1505	13.5	3.9	113	1.2	--	--	--	--	--
18...	1340	13.0	4.5	60	.73	59	61	73	100	--

DATE	TIME	NUMBER OF SAW- PLING POINTS	INSTAN- TANEOUS CHARGE (CFS)	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.
				% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM	% FINER THAN 1.00 MM
OCT.							
02...	1310	1	.00	1	2	3	5
02...	1315	1	.00	--	1	2	4
02...	1320	1	.00	1	2	5	7

	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN	BED MAT. SIEVE DIAM. % FINER THAN
DATE	2.00 MM	4.00 MM	8.00 MM	16.0 MM	32.0 MM	64.0 MM
OCT.						
02...	7	12	26	58	100	--
02...	12	27	60	94	100	--
02...	10	15	29	57	78	100

DATE	TIME	TEMPERATURE (DEG C)	CHARGE (CFS)	INSTANTANEOUS DISCHARGE (MG/L)	SUSPENDED SEDIMENT CHARGE (T/DAY)	SUSPENDED	SUSPENDED	SUSPENDED
						SEDIMENT	FALL	SEDIMENT
						% FINER THAN .062 MM	% FINER THAN .062 MM	% FINER THAN .062 MM

## 11459820 IRWIN CREEK TRIBUTARY NO. 2 AT SAN RAFAEL, CALIF. (LAT 37°58'56", LONG 122°30'24")

OCT.							
11...	1215	16.5	.01	249	.01	99	99
11...	1235	16.5	.02	310	.02	94	94
11...	1252	16.5	.10	1770	.48	98	98
DEC.							
07...	1125	8.0	.06	53	.01	99	99
JAN.							
09...	1135	10.5	4.7	270	3.4	99	99
09...	1140	10.5	4.7	256	3.2	99	75
12...	1520	13.0	3.1	194	1.6	99	99
18...	1435	13.0	7.9	48	1.0	99	74
FEB.							
28...	1600	13.0	1.6	16	.07	99	99
	SUS.	SUS.	SUS.	SUS.	SUS.	SUS.	SUS.
	SED.	SED.	SED.	SED.	SED.	SED.	SED.
	FALL	SIEVE	FALL	SIEVE	FALL	SIEVE	SIEVE
	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.
	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER
	THAN	THAN	THAN	THAN	THAN	THAN	THAN
DATE	.125 MM	.125 MM	.250 MM	.250 MM	.500 MM	.500 MM	1.00 MM
OCT.							
11...	100	99	99	100	99	99	99
11...	98	99	98	100	99	99	99
11...	99	99	100	99	99	99	99
DEC.							
07...	99	99	99	99	99	99	99
JAN.							
09...	99	99	99	99	99	99	99
09...	82	99	87	92	100	100	100
12...	99	99	99	99	99	99	99
18...	78	99	87	99	100	100	100
FEB.							
28...	99	99	99	99	99	99	99

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

## SEDIMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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
SAN RAFAEL CREEK BASIN							
11459820 IRWIN CREEK TRIBUTARY NO. 2 AT SAN RAFAEL, CALIF.---Continued							

OCT.							
02...	1150	1	.00	--	--	--	1
02...	1155	1	.00	--	--	1	2
02...	1200	1	.00	1	2	5	10
02...	1205	1	.00	--	1	3	7
02...	1210	1	.00	18	33	55	74

DATE	TIME	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.								
02...	1	2	3	5	14	20	100	
02...	4	6	9	12	17	34	100	
02...	18	28	37	51	68	100	--	
02...	11	14	17	20	25	27	100	
02...	80	87	94	98	100	--	--	

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDEd SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDEd SEDIM- ENT CHARGE (T/DAY)
11459830 IRWIN CREEK AT SAN RAFAEL, CALIF. (LAT 37°58'56", LONG 122°30'50")					

OCT.					
11...	1345	16.5	1.3	194	.68
NOV.					
13...	1103	--	6.8	150	2.8
13...	1135	--	9.8	330	8.7
13...	1235	--	22	768	46
13...	1537	--	22	634	38
DEC.					
07...	1145	7.5	.36	22	.02
JAN.					
09...	0930	10.0	24	568	37
09...	0935	10.0	24	551	36
12...	1435	12.5	26	68	4.8
18...	1235	12.0	35	179	17
MAR.					
21...	1200	12.0	.11	41	.01

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDEd SEDIM- ENT CHARGE (MG/L)	SUS- PENDEd SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
OCT.										
11...	1345	16.5	1.3	194	.68	--	--	--	--	--
NOV.										
13...	1537	--	22	634	38	33	45	56	70	80
JAN.										
09...	0930	10.0	24	568	37	31	42	53	66	78
12...	1435	12.5	26	68	4.8	--	--	--	--	--
18...	1235	12.0	35	179	17	--	--	--	--	--
DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
OCT.										
11...	--	93	--	97	--	99	100	--	--	--
NOV.										
13...	--	85	--	89	--	92	96	98	100	--
JAN.										
09...	87	--	95	--	100	--	--	--	--	--
12...	--	88	--	91	--	100	--	--	--	--
18...	--	59	--	70	--	83	100	--	--	--

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

649

## SEDIMENT ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (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
------	------	---	---	---	---	---	---

SAN RAFAEL CREEK BASIN  
11459830 IRWIN CREEK AT SAN RAFAEL, CALIF.--Continued

OCT.							
02...	1250	1	.00	11	21	33	45
02...	1255	1	.00	1	1	2	4
02...	1300	1	.00	1	1	2	4
02...	1305	1	.00	2	5	12	23
02...	1310	1	.00	4	11	24	38

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
------	---	---	---	---	---	---

OCT.						
02...	54	65	78	92	100	--
02...	7	13	25	50	84	100
02...	8	17	34	68	100	--
02...	32	41	53	71	80	100
02...	44	48	53	82	93	100

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE MENT DIS- CHARGE (MG/L)	SUS- PENDE MENT DIS- CHARGE (T/DAY)
------	------	-----------------------------	---	---	--

MATTOLE RIVER BASIN  
11468990 HONEYDEW CREEK AT HONEYDEW, CALIF. (LAT 40°13'23", LONG 124°06'35")

FEB.					
20...	1710	9.5	102	16	4.4
APR.					
06...	1115	11.0	78	4	.84
MAY					
15...	1830	20.0	17	3	.14
JULY					
10...	1300	22.5	7.0	2	.04
AUG.					
20...	1840	24.0	5.7	2	.03

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS  
TURBIDITY, IN JACKSON UNITS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	SUS- PENDED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)	WEIGHT- PERCENT- ORGANIC- MATTER
SACRAMENTO RIVER BASIN YOLO BYPASS AT LIBERTY ISLAND, CALIF. (WEST)				
JAN.				
12...	1400	83	50	4.72
13...	1300	344	140	.20
15...	1400	628	200	1.22
17...	1300	511	190	1.40
19...	1400	834	240	1.53
20...	0950	800	230	.31
22...	1115	405	170	.55
23...	1120	306	180	1.58
25...	1050	273	170	1.22
27...	1010	188	120	.44
30...	1110	99	70	1.32
FEB.				
02...	1110	76	50	.39
11...	0940	167	110	1.28
14...	1110	325	160	1.68
20...	1120	80	75	2.30
MAR.				
01...	1110	140	95	1.71
03...	0930	79	60	1.58

YOLO BYPASS AT LIBERTY ISLAND, CALIF. (EAST), (LAT 38°15'07", LONG 121°40'17")

JAN.				
13...	1230	330	170	1.38
15...	1310	552	190	.58
17...	1340	537	200	.08
19...	1440	468	150	.24
20...	1040	440	140	.88
22...	1200	347	150	1.48
23...	1215	263	130	1.80
25...	1130	123	85	2.08
27...	1050	123	90	.25
30...	1150	133	85	.22
FEB.				
02...	1140	130	90	.45
11...	0910	538	220	2.21
14...	1200	199	100	1.80
20...	1200	116	70	.44
MAR.				
01...	1040	174	100	1.11
03...	1000	208	100	1.80

## CHEMICAL ANALYSES OF GROUND WATERS IN CALIFORNIA

651

STATION NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENTIFIER	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)
DRY CREEK Mendocino County									
383348122505101	38 33 48	122 50 51	01	8N/9W-3P2	111ALVL	73-06-01	0915	17	50
383536122520401	38 35 36	122 52 04	01	9N/9W-28N2	111ALVL	73-09-19	1130	15	4200
383655122530701	38 36 55	122 53 07	01	9N/9W-20E2	111ALVL	73-06-01	0950	27	30
					111ALVL	73-09-19	1230	27	20
					111ALVL	73-06-01	1000	20	30
383954122554801	38 39 54	122 55 48	01	10N/10W-35Q2	111ALVL	73-09-19	1300	21	10
					111ALVL	73-06-01	1115	24	160
384218122574701	38 42 18	122 57 47	01	10N/10W-22D1	111ALVL	73-09-19	1350	29	20
					111ALVL	73-06-01	1145	28	20
					111ALVL	73-09-19	1425	24	70

DATE OF SAMPLE	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CAC03 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
73-06-01	25	17	8.8	1.5	158	0	130	14	4.9	.1	.09	172
73-09-19	24	16	10	2.3	161	0	132	11	7.3	.1	.00	148
73-06-01	24	28	14	.7	208	0	171	19	8.1	.2	2.0	231
73-09-19	22	27	13	1.6	208	0	171	19	9.5	.1	.46	228
73-06-01	23	17	11	.7	152	0	125	20	5.0	.1	2.0	173
73-09-19	21	15	11	1.7	138	0	113	19	6.9	.1	.27	159
73-06-01	10	5.6	7.5	.3	34	0	28	20	4.8	.1	1.7	116
73-09-19	13	11	9.5	1.4	91	0	75	20	4.9	.1	.85	133
73-06-01	13	11	9.6	.3	79	0	65	22	4.8	.1	1.5	148
73-09-19	8.3	5.3	7.3	1.4	44	0	36	14	5.2	.1	1.5	85

DATE OF SAMPLE	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
73-06-01	167	.23	130	3	12	.3	283	7.1	16.0	20	220
73-09-19	170	.20	130	0	14	.4	266	7.1	22.0	20	280
73-06-01	233	.31	180	5	15	.5	372	7.2	17.0	21	150
73-09-19	224	.31	170	0	14	.4	370	7.2	18.0	21	190
73-06-01	181	.24	130	3	16	.4	288	7.0	16.0	24	180
73-09-19	165	.22	110	1	17	.4	268	7.2	19.5	14	200
73-06-01	97	.16	48	20	25	.5	132	6.9	15.0	6.8	10
73-09-19	138	.18	78	3	21	.5	198	6.5	15.5	46	200
73-06-01	134	.20	78	13	21	.5	199	6.9	16.0	16	10
73-09-19	94	.12	43	6	26	.5	114	6.2	17.0	44	40

STATION NUMBER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT 1/	DATE OF SAMPLE	TIME	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)
MAD RIVER Humboldt County									
405118123592601	40 51 18	123 59 26	01	6N/2E-31R1	111ALVL	72-12-05	1055	8.6	330
					111ALVL	73-03-22	1000	7.6	90
405148123581701	40 51 48	123 58 17	01	6N/2E-32H1	111ALVL	73-04-15	1445	29	30
405200123580601	40 52 00	123 58 06	01	6N/2E-32A1	111ALVL	72-12-05	1015	5.5	690
405221124000601	40 52 21	124 00 06	01	6N/2E-30M1	111ALVL	72-12-05	1130	10	1800
					111ALVL	73-03-22	1050	4.8	440
405246124003801	40 52 46	124 00 38	01	6N/1E-25R1	111ALVL	72-12-05	1155	19	640
					111ALVL	73-03-22	1125	17	240
405357124005701	40 53 57	124 00 57	01	6N/1E-13P1	111ALVL	72-12-05	1400	29	660
					111ALVL	73-03-22	1320	26	50
405420124053501	40 54 20	124 05 35	01	6N/1E-17F2	111ALVL	72-12-05	1300	32	9100
					111ALVL	73-03-22	1525	30	13000
405426124043301	40 54 26	124 04 33	01	6N/1E-16E3	111ALVL	72-12-05	1330	15	1300
					111ALVL	73-03-22	1350	14	470
405453124060101	40 54 53	124 06 01	01	6N/1F-7P1	111ALVL	72-12-05	1215	19	700
					111ALVL	73-03-22	1445	19	110

DATE OF SAMPLE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RFSI- DUE AT 180 C) (MG/L)
72-12-05	34	5.0	4.3	1.1	111	0	91	14	5.2	.1	.46	148
73-03-22	19	3.3	3.3	.7	71	0	58	8.2	2.4	.1	.12	90
73-04-15	27	23	11	1.2	199	0	163	7.6	9.7	.1	.15	212
72-12-05	23	4.0	5.6	1.5	81	0	66	14	6.6	.1	.04	104
72-12-05	33	6.2	4.7	.8	132	0	108	12	4.4	.1	.00	150
73-03-22	36	6.9	4.2	3.6	64	0	53	85	2.7	.5	.01	196
72-12-05	20	14	13	6.9	107	0	88	11	25	.1	2.6	170
73-03-22	17	13	12	14	58	0	48	14	22	.0	9.7	222
72-12-05	7.0	4.9	11	.9	50	0	41	2.9	12	.1	.92	108
73-03-22	6.6	5.2	11	.9	51	0	42	3.9	12	.1	.96	104
72-12-05	53	20	7.7	1.0	258	0	212	23	9.2	.2	.00	306
73-03-22	56	21	8.0	1.2	264	0	217	22	7.7	.3	.03	302
72-12-05	65	11	7.4	1.1	235	0	193	6.4	12	.1	.02	236
73-03-22	58	12	7.4	1.2	236	0	194	7.4	11	.0	.02	246
72-12-05	40	26	9.8	1.5	272	0	223	5.3	9.3	.2	.20	246
73-03-22	40	27	11	1.4	264	0	217	5.0	7.6	.2	.21	266

DATE OF SAMPLE	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)
72-12-05	129	.20	110	14	8	.2	214	6.5	12.0	56	60
73-03-22	80	.12	61	3	10	.2	138	7.3	9.5	5.7	20
73-04-15	207	.29	160	0	13	.4	332	7.5	14.5	10	50
72-12-05	101	.14	74	7	14	.3	173	6.2	5.5	82	30
72-12-05	138	.20	110	0	9	.2	232	6.7	12.0	42	80
73-03-22	181	.27	120	66	7	.2	307	6.4	10.0	41	30
72-12-05	174	.23	110	20	20	.5	282	6.4	11.5	68	30
73-03-22	181	.30	96	48	19	.5	304	6.0	10.5	93	30
72-12-05	97	.15	38	0	38	.8	129	6.3	12.5	40	40
73-03-22	95	.14	38	0	38	.8	127	6.3	9.0	41	60
72-12-05	282	.42	210	3	7	.2	444	6.6	12.0	104	120
73-03-22	290	.41	230	10	7	.2	466	7.0	11.5	42	110
72-12-05	235	.32	210	15	7	.2	393	6.7	5.5	75	70
73-03-22	228	.33	190	1	8	.2	409	7.4	13.5	15	60
72-12-05	247	.33	210	0	9	.3	423	6.6	14.5	109	70
73-03-22	242	.36	210	0	10	.3	426	7.2	10.0	27	60

1/ Cenozoic, Quaternary, Holocene, Alluvial deposits.

# INDEX

	Page		Page
Adams Creek near Knoxville.....	432	Fall Creek, below Bennett Creek, at Felton.....	617
Alameda Creek near Niles.....	262	at Felton.....	617
Alamo Creek at Browns Dam, near Elmira.....	634	Feather River, at Oroville.....	376
Alonzo Drain at Cordelia Road, near Fairfield.....	635	at Yuba City.....	386
American River, at Fair Oaks.....	402	Middle Fork, near Clío.....	369
North Fork, at North Fork Dam.....	398	near Merrimac.....	370
South Fork, near Kyburz.....	400	near Gridley.....	381
near Lotus.....	401	near Nicolaus.....	396
Arroyo Grande above Phoenix Creek, near Arroyo Grande.....	191	North Fork, at Pulga.....	373
Arroyo Seco near Greenfield.....	210	West Branch, near Paradise.....	374
Arroyo Simi near Simi.....	149	Fresno River near Knowles.....	291
Arroyo Trabuco at San Juan Capistrano.....	106		
Arroyo Valle near Livermore.....	261		
		Garcia River near Point Arena.....	465
Battle Creek below Coleman Fish Hatchery, near Cottonwood.....	338	Gibson Canyon Creek at Southern Pacific Railroad, near Elmira.....	633
Bean Creek near Felton.....	618	Gila Gravity Main Canal at Imperial Dam, Ariz.-Calif.....	39
Bear Creek, at Boulder Creek.....	617	Goose Lake, at west shore log landing, near Willow Ranch.....	625
near Boulder Creek.....	617	at Willow Ranch.....	625
Bear River near Wheatland.....	630	near Everly ranch, near Willow Ranch.....	625
Big Chico Creek near Chico.....	628	Grass Lake Creek near Meyers.....	46
Big Rock Creek near Valyermo.....	44	Ground waters, chemical analyses of.....	651
Big Sur River near Big Sur.....	195		
Biological and microbiological variables.....	17	Hayfork Creek near Hyampom.....	590
Black Butte River near Covelo.....	482	Highland Creek below Highland Creek Dam, near Kelseyville.....	421
Blue Creek near Klamath.....	597	Honeydew Creek at Honeydew.....	649
Borel Canal below Isabella Dam.....	275	Humboldt Nursery, at McKinleyville.....	638
Boulder Creek, above Jamison Creek, near Boulder Creek.....	617	Hunting Creek near Knoxville.....	427
at Boulder Creek.....	617		
Branciforte Creek at Santa Cruz.....	619	Indian Creek near Crescent Mills.....	372
Butano Creek near Pescadero.....	640	Introduction.....	1
Butte Creek near Chico.....	358	Irwin Creek at San Rafael.....	648
		tributary at San Rafael.....	647
		tributary no. 2 at San Rafael.....	647
Cache Creek, near Capay.....	630		
near Lower Lake.....	631	Kaweah River, at Three Rivers.....	283
Calabazas Creek, at Mt. Eden Road, near Saratoga.....	640	below Terminus Dam.....	284
at Via Regina, near Saratoga.....	619	East Fork, below Mosquito Creek, near Hammond.....	281
tributary at Mt. Eden Road, near Saratoga.....	250	near Three Rivers.....	282
tributary No. 3 at Mt. Eden Road, near Saratoga.....	640	Kern River, at Kernville.....	273
tributary No. 4 at Mt. Eden Road, near Saratoga.....	641	below Isabella Dam.....	276
tributary No. 5 at Pierce Road, near Saratoga.....	641	near Kernville.....	624
Calaveras River, above New Hogan Lake, near San Andreas.....	318	near Quaking Aspen Camp.....	272
below New Hogan Lake, near Valley Springs.....	319	Kings Creek near Boulder Creek.....	616
Calleguas Creek at Camarillo State Hospital.....	152	Kings River, above North Fork, near Trimmer.....	286
Canyon Creek near Georgetown.....	399	at People's Weir, near Kingsburg.....	624
Carbonera Creek at Santa Cruz.....	619	below North Fork, near Trimmer.....	288
Carson River, West Fork, at Woodfords.....	605	below Pine Flat Dam.....	289
Castro Valley Creek at Hayward.....	266	North Fork, above Dinkley Creek, at Balch Camp.....	287
Chamise Creek near Island Mountain.....	499	Klamath River, at Orleans.....	582
Cherokee Canal near Nelson.....	360	below Iron Gate Dam.....	575
Chowchilla River near Raymond.....	292	near Klamath.....	598
Clear Creek near Igo.....	334	near Seiad Valley.....	580
Collection and examination of data.....	16		
Colma Creek at South San Francisco.....	243	Lily Creek near Pinecrest.....	297
Colorado River, above Imperial Dam, Ariz.-Calif.....	31	Little Grizzly Creek near Genesee.....	371
below Hoover Dam, Ariz.-Nev.....	26	Little Stony Creek above East Park Reservoir, near Lodoga.....	346
below Laguna Dam, Ariz.-Calif.....	37	Llagas Creek above Chesbro Reservoir, near Morgan Hill.....	220
below Parker Dam, Ariz.-Calif.....	29	Lompico Creek at Zayante.....	618
Colorado River aqueduct near Parker Dam, Ariz.-Calif.....	28	Los Angeles Aqueduct at outlet, at San Fernando.....	45
Colusa Trough near Colusa.....	368	Los Angeles River, at Willow Street bridge, at Long Beach.....	146
Colusa Weir Spill to Butte Basin near Colusa.....	351	at Los Angeles.....	607
Cooperation.....	2	Love Creek at Ben Lomond.....	617
Cosumnes River at Michigan Bar.....	324		
Cottonwood Creek (Sacramento River basin), near Olinda.....	336	Mad River, above Ruth Reservoir, near Forest Glen near Arcata.....	638
near Cottonwood.....	337	near Blue Lake.....	555
Cow Creek near Millville.....	335	near Forest Glen.....	547
Coyote Creek near Gilroy.....	257	near Kneeland.....	538
Cuyama River below Twitchell Dam.....	609	North Fork, near Korb.....	541
		Mad River groundwater.....	553
Definition of terms.....	3	Madden Creek, at Homewood.....	652
Dobbyn Creek near Fort Seward.....	513	near Homewood.....	65
Dollar Creek near Tahoe City.....	77	Matilija Creek at Matilija Hot Springs.....	62
Downstream order and station number.....	14	Mattola River near Petrolia.....	608
Dry Creek, near Cloverdale.....	448	McCloud River above Shasta Lake.....	470
near Geyserville.....	449	Meeks Creek at Meeks Bay.....	627
Dry Creek ground water.....	651	Merced River at Happy Isles Bridge, near Yosemite.....	56
		Mill Creek (Sacramento River basin) at mouth, near Los Molinos.....	293
Eagle Creek near Camp Richardson.....	53	Mojave River at lower narrows, near Victorville.....	340
East Walker River near Bridgeport.....	605	Mokelumne River, at Woodbridge.....	322
Eel River, above Dos Rios.....	481	below Camanche Dam.....	321
at Fort Seward.....	504	near Mokelumne Hill.....	320
at Scotia.....	526	Monarch Creek near Hammond.....	280
at South Fork.....	518		
at Van Arsdale Dam, near Potter Valley.....	636	Nacimiento River below Sapaque Creek, near Bryson Napa River, near Napa.....	201
below Scott Dam, near Potter Valley.....	472	near St. Helena.....	636
Middle Fork, below Black Butte River, near Covelo.....	486	Navarro River near Navarro.....	440
near Dos Rios.....	489	Nevada Creek near Knoxville.....	466
near Dos Rios.....	474	New River at International Boundary, at Calexico.....	435
North Fork, near Mina.....	494	Newell Creek at Ben Lomond.....	41
South Fork, at Leggett.....	523		617
near Miranda.....	524		
Elder Creek near Branscomb.....	519		
Elk Creek near Hearst.....	487		

	Page		Page
Noonan Drain at Hay Road, near Elmira.....	635	San Rafael Creek at San Rafael.....	646
North Yuba River below Bullards Bar Dam, near		at Sirard Lane, at San Rafael.....	645
North San Juan.....	468	Santa Ana River, at E Street, near San Bernardino	607
Noyo River near Fort Bragg.....	468	at Imperial Highway, near Anaheim.....	136
		at MWD crossing, near Arlington.....	121
Oregon Creek below Log Cabin Dam, near		at Santa Ana.....	140
Camptonville.....	390	below Prado Dam.....	128
		near Mentone.....	606
Pajaro River at Chittenden.....	229	Santa Clara River, at Los Angeles-Ventura County	
Peralta Creek at Oakland.....	621, 643	Line.....	156
Pescadero Creek near Pescadero.....	241	at Montalvo.....	183
Piru Creek, above Frenchmans Flat.....	163	near Santa Paula.....	608
above Lake Piru.....	166	Santa Margarita River, at Ysidora.....	99
near Piru.....	168	near Fallbrook.....	605
Pit River, near Canby.....	330	Santa Paula Creek near Santa Paula.....	177
near Montgomery Creek.....	627	Santa Rita Creek near Templeton.....	196
South Fork, near Likely.....	626	Saratoga Creek at Saratoga.....	618, 643
Potter Valley Powerhouse tailrace near Potter		Saticoy Diversion near Saticoy.....	181
Valley.....	473	Scott River near Fort Jones.....	639
Prospect Creek at Marin Lane, near Saratoga... 621,	642	Sediment.....	19
at Saratoga Golf Course, near Saratoga.....	254	Selected references.....	22
tributary near Saratoga.....	643	Sespe Creek, near Fillmore.....	171
Putah Creek, near Guenoc.....	425	near Wheeler Springs.....	170
near Winters.....	438	Shasta River near Yreka.....	578
		Smith River near Crescent City.....	601
Quail Lake Creek near Homewood.....	59	Solutes.....	18
		Soquel Creek at Soquel.....	230
Raines Drain at Chadbourne Road, near Fairfield... 635		South Yuba River at Jones Bar, near Grass Valley.	392
Reclamation District, No. 2068 Drain V, at Swan		Special networks and programs.....	12
Road, near Dixon.....	634	Stanislaus River, below Goodwin Dam, near Knights	
No. 2068 Drain X at Midway Road, near Clarks-		Ferry.....	303
burg.....	632	below Tulloch powerplant, near Knights Ferry...	302
No. 2068 Drain Z at Hackman Road and Road 105,		Middle Fork, at Hells Half Acre Bridge, near	
near Clarksburg.....	632	Pinecrest.....	300
No. 2068W Pump No. 5 spill, near Courtland.....	632	near Hathaway Pines.....	301
Redwood Creek (tributary to Pacific Ocean), at		Stony Creek, below Black Butte Dam, near Orland..	348
Orick.....	570	near Fruto.....	347
at South Park boundary, near Orick.....	568	Strong Ranch Slough at Sacramento.....	403
near Blue Lake.....	564	Susan River at Susanville.....	89
Riverside Water-Quality Control Plant at River-		Sweeney Creek at Weber Road, near Dixon.....	633
side narrows, near Arlington.....	125		
Ross Creek below Jarvis Road, at San Jose.....	246	Temperature.....	18
Russian River, East Fork, near Calpella.....	442	Tenmile River, Middle Fork, near Fort Bragg.....	469
East Fork, near Ukiah.....	444	Thermalito afterbay release to Feather River near	
near Guerneville.....	458	Oroville.....	375
near Healdsburg.....	447	Thomes Creek at Paskenta.....	341
near Hopland.....	446	Tijuana River near Nestor.....	90
		Trinity River, at Hoopa.....	592
Sacramento River, above Bend Bridge, near Red		at Lewiston.....	587
Bluff.....	339	near Burnt Ranch.....	589
above Colusa Trough, at Knights Landing.....	366	South Fork, below Hyampom.....	591
at Bend.....	628	Trout Creek at South Lake Tahoe.....	80
at Butte City.....	350	Truckee River at Farad.....	86
at Colusa.....	354	Tule River, below Success Dam.....	278
at Delta.....	328	near Springville.....	277
at Freeport.....	414	Tuolumne River, at Modesto.....	299
at Green's Landing, near Courtland.....	419	below La Grange Dam, near La Grange.....	298
at Keswick.....	333	Turbidity.....	20
at Sacramento.....	407		
below Wilkins Slough, near Grimes.....	365	Ulatris Creek, at Browns Road, near Elmira.....	634
near Hamilton City.....	629	at Lewis Road, near Elmira.....	633
near Mt Shasta.....	327	Upper Truckee River at South Lake Tahoe.....	49
Sagehen Creek near Truckee.....	84	Uvas Creek above Uvas Reservoir, near Morgan	
Salinas River, above Pillitas Creek, near Santa		Hill.....	224
Margarita.....	611		
at Paso Robles.....	612	Van Duzen River, near Dinsmores.....	535
at Soledad.....	614	near Bridgeville.....	536
near Bradley.....	613	Ventura River near Ventura.....	187
near Pozo.....	610		
near Spreckels.....	213	Ward Creek, at State Highway 89, near Tahoe Pines	74
Salmon Creek at Bodega.....	441	near Tahoe Pines.....	68
Salmon River at Somes Bar.....	581	tributary near Tahoe Pines.....	71
San Antonio River near Lockwood.....	205	Water-quality records.....	26
San Bernardino Water Quality Control Plant at		Water-supply papers.....	21
San Bernardino.....	118	Well number.....	15
San Diego Creek, at Lane Road, near Irvine.....	114	Whitewater River at White Water.....	603
near Irvine.....	110		
San Diego River near Santee.....	92	Yolo Bypass, at Liberty Island (combined).....	644
San Gabriel River, at Azusa powerhouse, at Azusa..	144	at Liberty Island (east).....	650
at Whittier Narrows.....	145	at Liberty island (west).....	644, 650
San Joaquin River, below Kerckhoff powerhouse,		Yuba River, at Marysville.....	630
near Prather.....	290	below Englebright Dam, near Smartville.....	394
near Vernalis.....	304	near Marysville.....	395
San Juan Creek at San Juan Capistrano.....	102		
San Lorenzo River, at Big Trees.....	235	Zayante Creek, below Mountain Charlie Gulch, near	
at Boulder Creek.....	617	Zayante.....	617
near Boulder Creek.....	616, 640	at Felton.....	618
San Luis Rey River at Oceanside.....	96	at Zayante.....	231













U. S. DEPARTMENT OF THE INTERIOR  
Geological Survey  
855 Oak Grove Avenue  
Menlo Park, California 94025

POSTAGE AND FEES PAID  
U.S. DEPARTMENT OF THE INTERIOR  
INT 413

