

UNITED STATES
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GEOLOGICAL SURVEY
Water Resources Division

AN INVENTORY OF PUBLISHED AND UNPUBLISHED
FLUVIAL-SEDIMENT DATA FOR CALIFORNIA
1956-70

By
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OPEN-FILE REPORT

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AN INVENTORY OF PUBLISHED AND UNPUBLISHED FLUVIAL-SEDIMENT DATA
FOR CALIFORNIA, 1956-70

By George Porterfield

INTRODUCTION

This inventory was prepared to provide a convenient reference to published and unpublished fluvial-sediment data for water years¹ 1956-70, and updates substantially previous inventories. Sediment stations are listed in downstream order, and an alphabetical list of stations is also included. Figure 1 shows the approximate location of sediment stations in California. Most of the fluvial-sediment data in California were collected by the U.S. Geological Survey, under cooperative agreements with the following Federal, State, and local agencies.

California Department of Water Resources
California Department of Navigation and Ocean Development
California Department of Fish and Game
Bolinas Harbor District
Monterey County Flood Control and Water Conservation District
Orange County Flood Control District
Riverside County Flood Control and Water Conservation District
San Diego County Department of Sanitation and Flood Control
San Luis Obispo County
San Mateo County
Santa Clara County Flood Control and Water District
Santa Cruz County Flood Control and Water Conservation District
Santa Cruz, city of
University of California
Ventura County Flood Control District
Forest Service, U.S. Department of Agriculture
Soil Conservation Service, U.S. Department of Agriculture
Corps of Engineers, U.S. Army
Bureau of Reclamation, U.S. Department of the Interior
National Park Service, U.S. Department of the Interior

This report was prepared by the Geological Survey under the general supervision of R. Stanley Lord, district chief in charge of water-resources investigations in California.

¹The water year is the period October 1 through September 30 and is designation by the calendar year in which it ends.

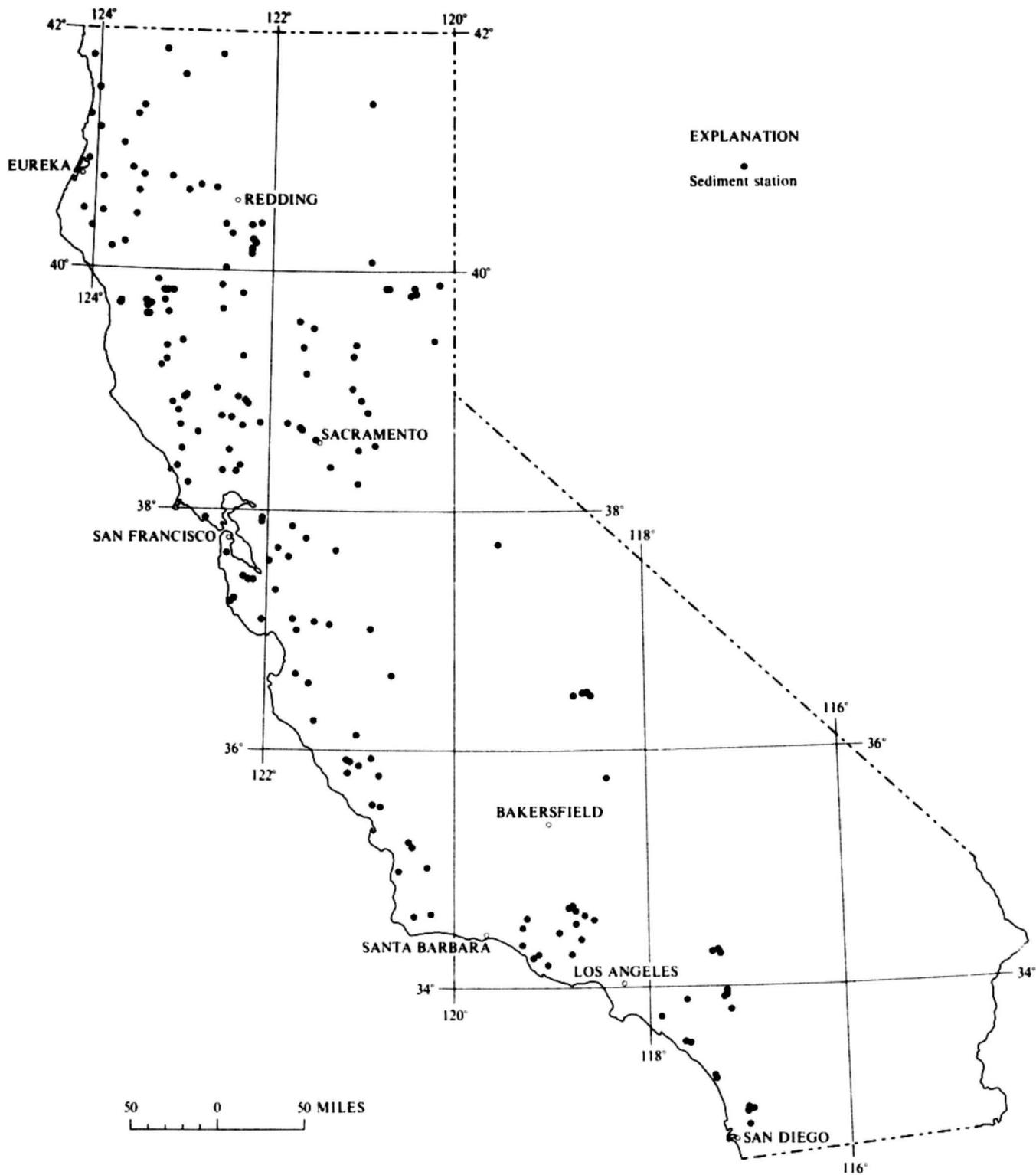


FIGURE 1.--Approximate location of sediment stations in California, 1956-70.

COLLECTION AND EXAMINATION OF SAMPLES

Sediment

Samples of suspended sediment were collected with depth- and point-integrating samplers. Each sample consisted of one or more bottles of water-sediment mixture from one or more verticals in the stream cross section. Frequency of sampling depended on the purpose of the sampling program, and the number of bottles per vertical and the number of verticals sampled depended on the vertical and lateral distribution of the suspended sediment in the stream.

Sampling equipment and methods used to collect samples are those discussed in the series of reports of the U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, published under the general title "A Study of Methods Used in Measurement and Analysis of Sediment Loads in Streams." Report 14 (1963) of the study reviews the equipment, practices, and some of the basic concepts commonly associated with fluvial-sediment investigations. A techniques manual of the Geological Survey (Guy and Norman, 1970) describes field methods and equipment for measurement of fluvial sediment.

All samples were analyzed for concentration, by weight, of suspended sediment in the water-sediment mixture and selected samples were analyzed for particle-size distribution. Methods used to analyze samples for concentration and particle-size distribution are discussed in a techniques manual by Guy (1969). Computation of fluvial-sediment discharge is discussed in a techniques manual by Porterfield (1972).

Turbidity

At some stations in the Russian, Eel, and Mad river basins, samples for determination of turbidity were collected at the same frequency as samples of suspended sediment.

Prior to July 1966 turbidity determinations of sediment samples were made with the Hellige turbidimeter (Rainwater and Thatcher, 1960), and from 1966-70 turbidity determinations were made with a Hach model 2100 turbidimeter, or equivalent.²

²Reference to registered trade names shall not be construed as an official endorsement of these products by the U.S. Geological Survey.

HISTORICAL SEDIMENT PROGRAM

Inventories of published and unpublished sediment-load data for California list sediment data obtained in California as early as 1876. The first observations were made at 14 stations and were discontinued in 1879.

The year 1904 marked the beginning of another period of sediment observations. This period extended to 1908 and observations were made at 33 locations. With minor exceptions, no other sediment-load data were collected on California streams until the period 1938-46. During the 1938-46 period sediment observations were made at 71 locations; however, less than 35 observations were made at each of 49 of the locations.

The first continuous-record stations, or daily stations, in California were operated by the Geological Survey for the Corps of Engineers on Salinas River at San Lucas during the periods January to June 1950 and January to March 1951, and on Salinas River near Chualar, February 1950 and January to March 1951. A continuous-record station was operated on East Fork Russian River near Ukiah from December 1952 to March 1955.

Inventories of the fluvial-sediment data collected in the United States prior to 1950 were assembled in two unpublished bulletins by the Subcommittee on Sedimentation, Federal Inter-Agency River Basin Committee (the predecessor to the Inter-Agency Committee on Water Resources). An inventory of published and unpublished sediment-load data for the United States and Puerto Rico for the period 1950-60 was compiled by Harris (1962).

A summary of sediment data for California streams, as listed by the Inter-Agency Committee and by Harris (1962), is illustrated graphically in figure 2. The sources of these data (fig. 2) are not listed in this summary but are available in the original inventories. The Geological Survey does not maintain a file of published or unpublished data collected by other agencies. If copies of these data are desired, application should be made directly to the agencies or persons responsible for the collection or publication of the data.

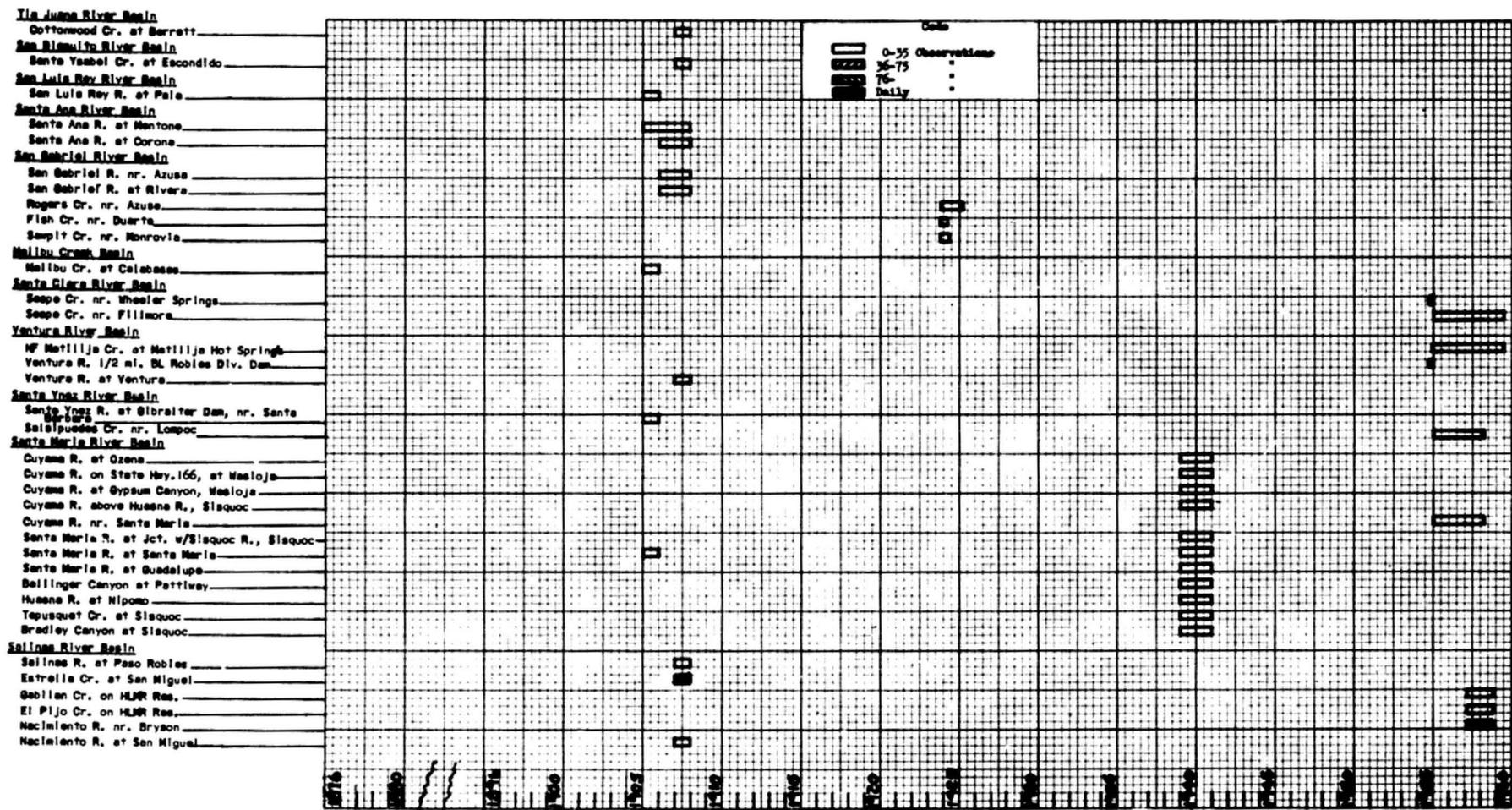


FIGURE 2.--Inventory of published and unpublished sediment data for California through 1960.

Salinas River Basin—Continued

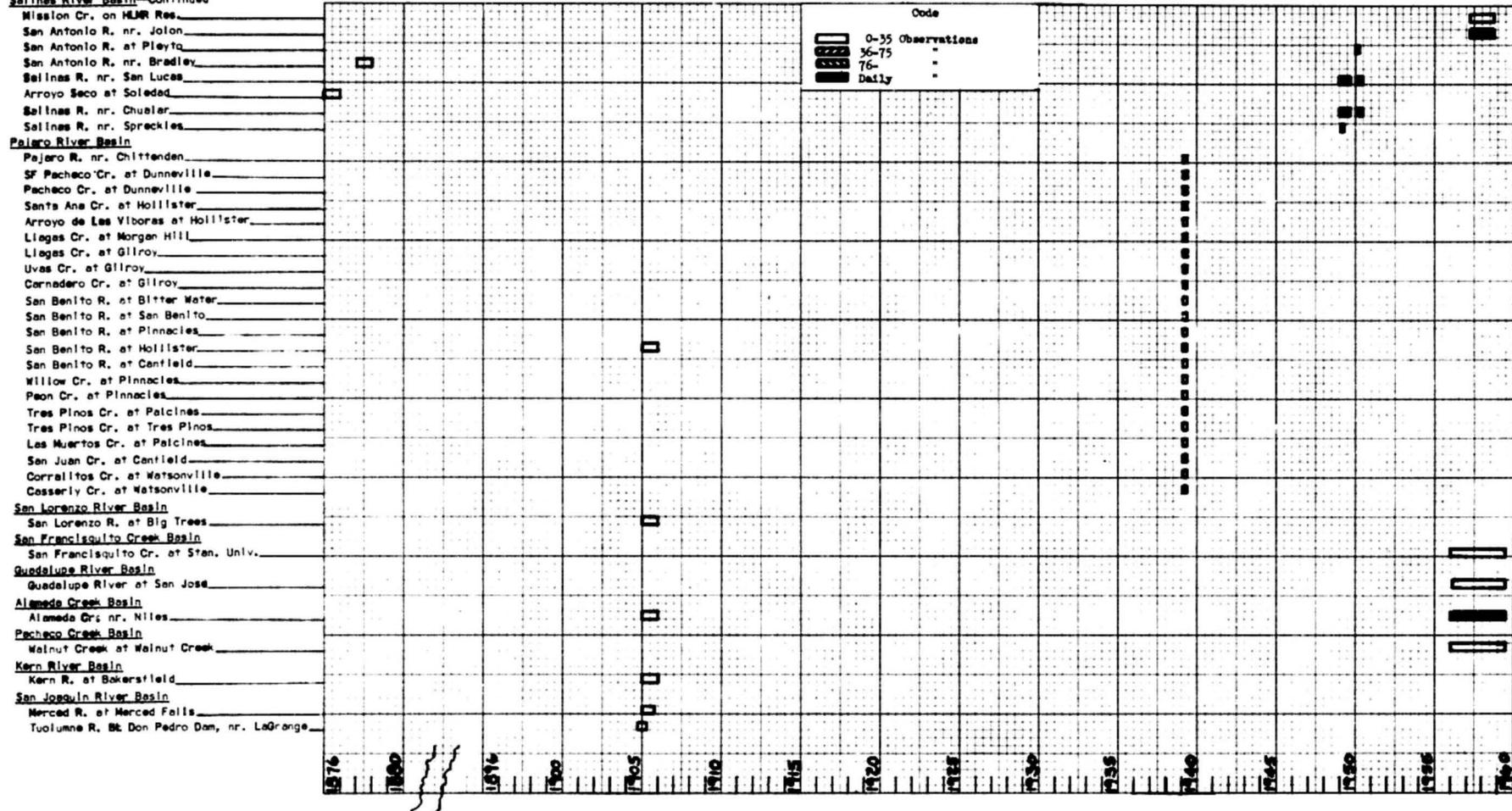


FIGURE 2.--Continued.

San Joaquin River Basin--Continued

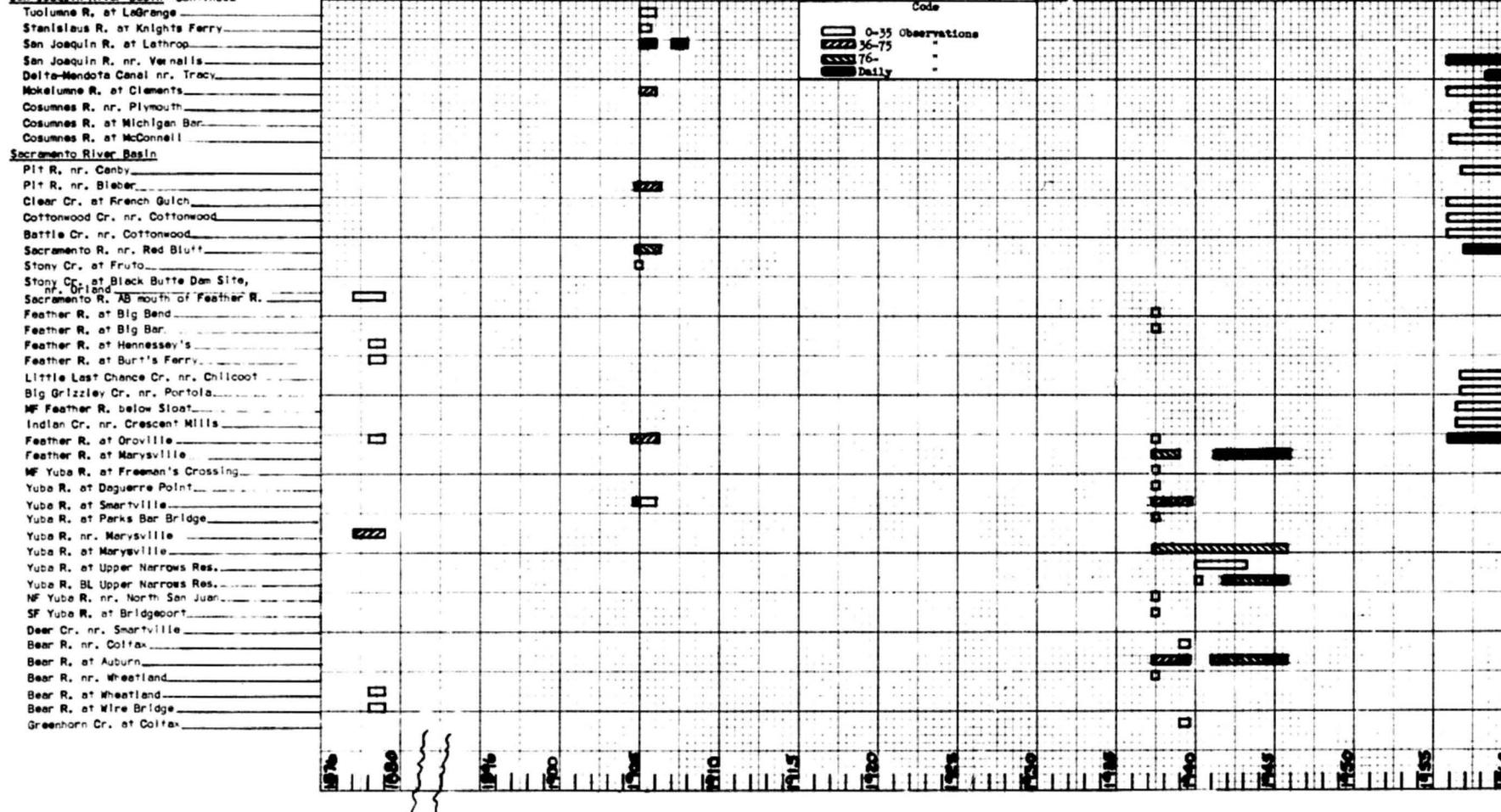


FIGURE 2.--Continued.

Sacramento River Basin--Continued

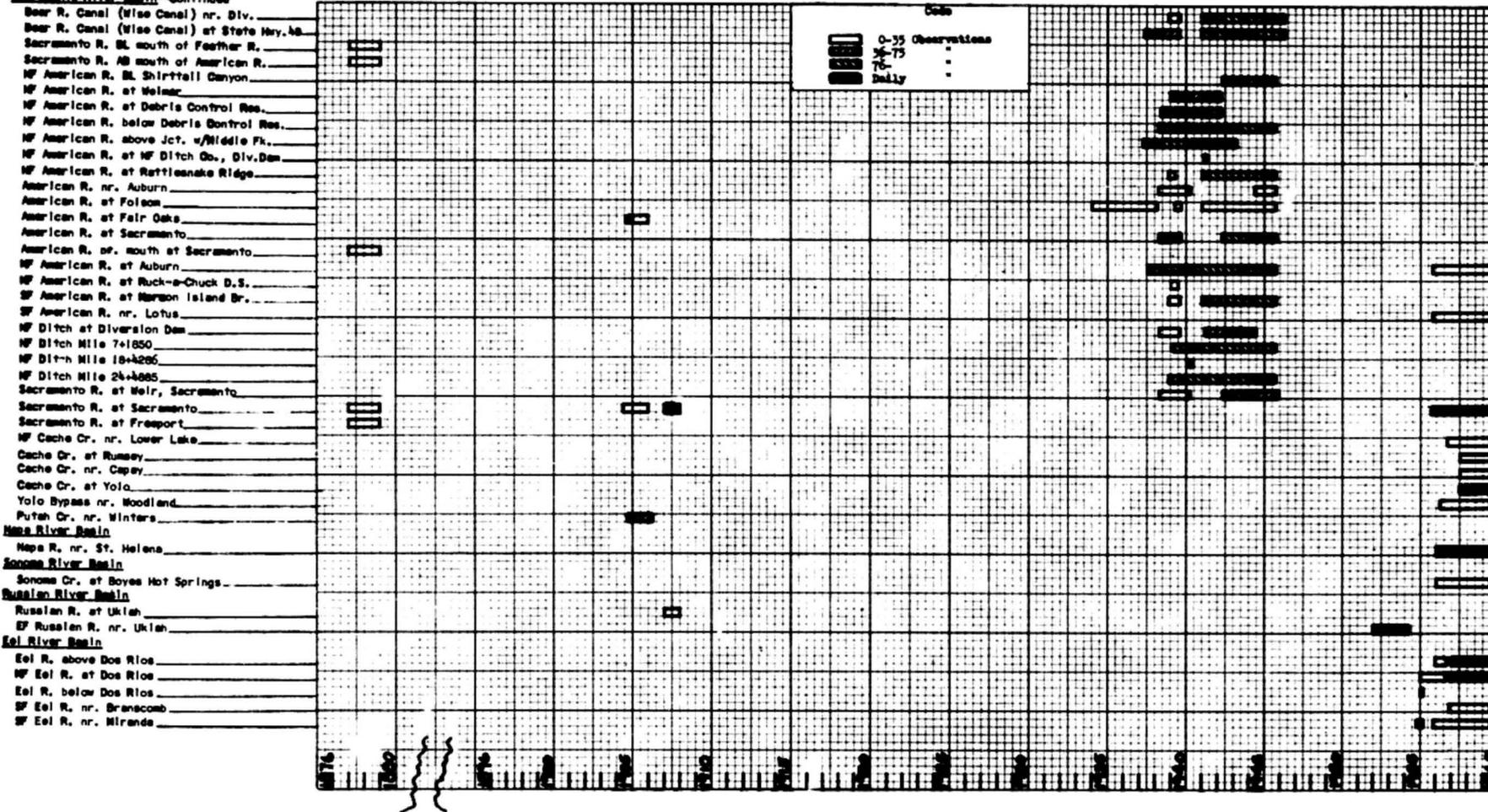


FIGURE 2.--Continued.

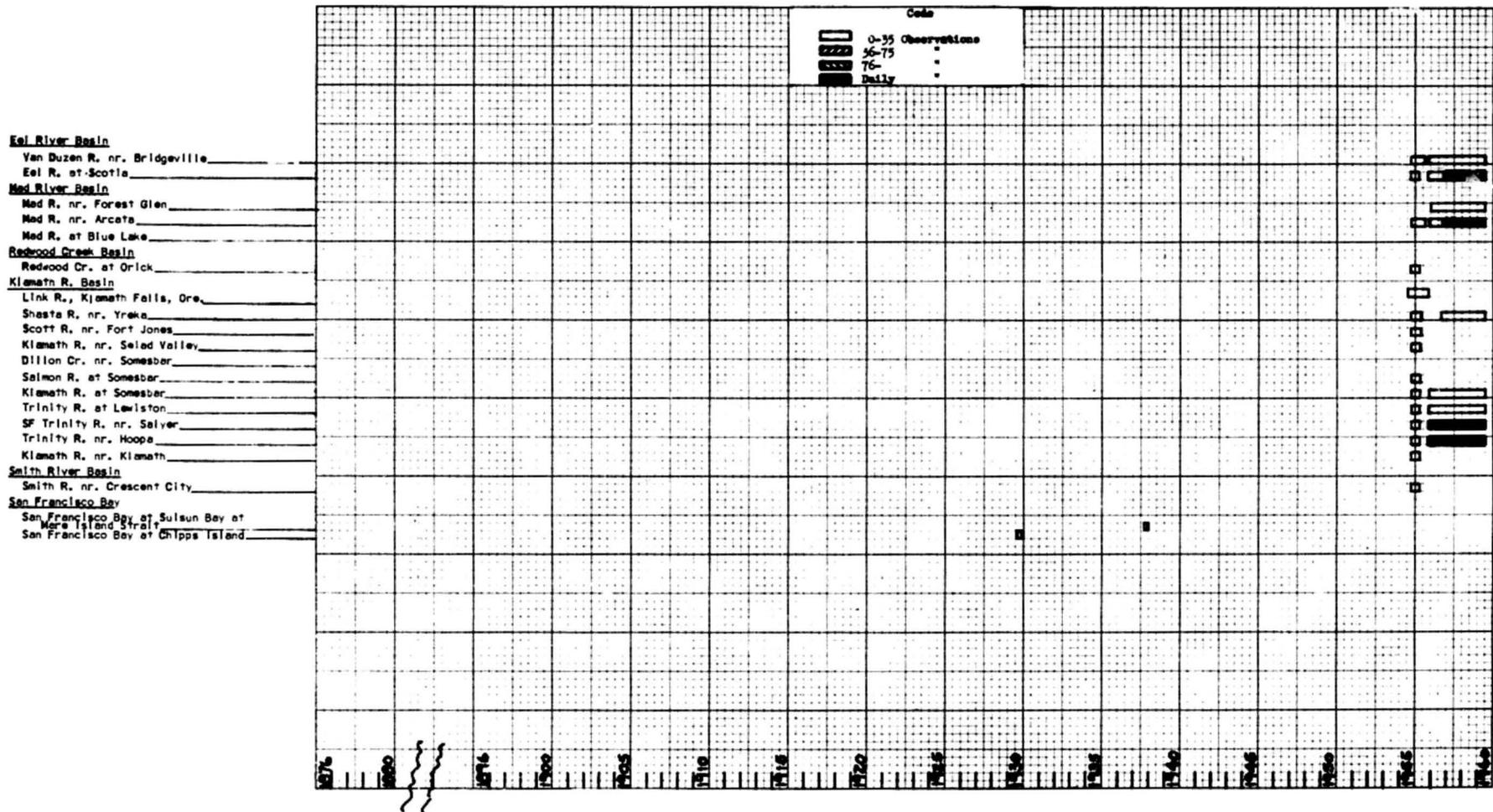


FIGURE 2.--Continued.

CURRENT SEDIMENT PROGRAM

Sediment data collected by the Geological Survey for water years 1956-66 are available in the water-supply papers of the Geological Survey "Quality of Surface Waters of the United States, Parts 9-14:"

Numbers of water-supply papers containing records for parts 9-14, water years 1956-66

<i>Year</i>	<i>WSP</i>	<i>Year</i>	<i>WSP</i>	<i>Year</i>	<i>WSP</i>
1956	1453	1960	1745	1964	1958
1957	1523	1961	1885	1965	1965
1958	1574	1962	1945	1966	1995
1959	1645	1963	1951		

Data collected subsequent to 1966 water year are available in the annual basic-data reports "Water Resources Data for California, Part 2. Water Quality Records." Data collected prior to the 1956 water year have not been published.

EXPLANATION OF INVENTORY AND DEFINITION OF TERMS

Information about the data listed in the inventory and an explanation of terms are in the following paragraphs.

Downstream Order and Station Number

As a means of identification each sampling station has been assigned a station number in the same downstream order currently used in the annual series of water-supply papers. All stations on a tributary entering above a main-stem station are listed before the station on the main stem. If a tributary enters between two main-stem stations, it is listed between them. This downstream order shows which stations are on tributaries between any two stations on a main stem.

In assigning station numbers, no distinction is made between partial- and continuous-record stations, so that the number for partial-record stations indicates downstream order position in a list made up of both types of stations. 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 11-3035.00 includes the part number "11" plus a 6-digit number. In this report, the records are listed in downstream order by parts. Part 10 includes stations in the Great Basin and part 11 includes stations in the Pacific slope basins of California.

Name and Location of Station

The name of the nearest post office is used, if possible, to describe the location of the stations. If further definition is needed, reference to bridges, highways, and dams are used. Most sampling stations are located at or near a Geological Survey or California Department of Water Resources stream-gaging station.

Latitude and longitude are given to facilitate location of sampling point.

Drainage Area

Drainage areas are given in square miles. Areas used in this report are those shown in the basic-data report, "Water Resources Data for California, 1969, Part 1. Surface Water Records, Volumes 1 and 2." Drainage areas for stations not listed in the 1969 basic-data report are the latest values available in the files of the Geological Survey.

Sampling Frequency

Stations are categorized as follows:

- D, daily or partial-record stations
- P, periodic or miscellaneous stations.

Daily stations are those sites sampled one or more times daily during periods of medium and high streamflow and one or more times weekly during periods of low, clear flow. Suspended-sediment discharge is computed for each day.

Partial-record stations are those sites samples one or more times daily during medium and high flow during the period of winter rainfall-- usually about November through March. Most of the suspended sediment in California streams is transported during this period. Samples are obtained weekly or monthly April through October when flow generally is low. Sediment discharge is computed for each day during the period frequent samples were obtained.

Periodic or miscellaneous stations are those sites sampled weekly, monthly, or at irregular intervals. Periodic samples are generally supplemented by additional samples during medium and high streamflow. Sufficient samples are obtained over a period of several years to determine the relation between the instantaneous values of streamflow and suspended-sediment discharge for the range of streamflow that occurs at the station. Although daily values of suspended-sediment discharge are not computed from samples collected periodically, these data are useful in establishing seasonal relations between sediment discharge and streamflow and for predicting long-term sediment-discharge characteristics of the stream and drainage basin.

Period of Record

The period of record is shown by listing the month and year of the first and last observations in a sustained series. A break in record is shown if no samples were collected during a period or if a change occurred in sampling frequency.

INVENTORY OF PUBLISHED AND UNPUBLISHED FLUVIAL-SEDIMENT DATA FOR CALIFORNIA, 1956-70

Station number	Station name	Latitude			Longitude			Drainage area (sq mi)	Sampling frequency	Period of record
		Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
10-2605.50	WEST FORK MOJAVE RIVER ABOVE CEDAR SPRINGS, CALIF.	34	17	20N	117	22	10	3.2	P	12/61- 4/67
10-2607.00	EAST FORK OF WEST FORK MOJAVE RIVER ABOVE CEDAR SPRINGS, CALIF.	34	16	18N	117	17	30	11.5	P	12/61- 6/67
10-2608.00	WEST FORK MOJAVE RIVER BELOW CEDAR SPRINGS, CALIF.	34	18	25N	117	18	40	34.5	P	12/61- 4/67
10-3435.00	SAGEHEN CREEK NEAR TRUCKEE, CALIF.	39	25	54N	120	14	07	10.8	P	5/68-
11-0135.00	TIJUANA RIVER NEAR NESTOR, CALIF.	32	33	06N	117	05	00	1630	D	10/69-
11-0225.00	SAN DIEGO RIVER NEAR SANTEE, CALIF.	32	49	29N	117	03	17	377	D	10/69-
11-0232.50	POWAY CREEK NEAR POWAY, CALIF.	32	57	13N	117	00	50	7.92	D	11/69-
11-0233.10	RATTLESNAKE CREEK AT POWAY, CALIF.	32	57	07N	117	02	56	8.13	D	11/69-
11-0233.15	POWAY CREEK TRIBUTARY AT OAK KNOLL ROAD, NEAR POWAY, CALIF.	32	57	02N	117	03	27	0.93	D	12/69-
11-0233.18	POMERADO CREEK AT GLFNDAK ROAD, NEAR POWAY, CALIF.	32	58	25N	117	03	38	2.43	D	12/69-
11-0233.20	POMERADO CREEK AT POWAY ROAD, NEAR POWAY, CALIF.	32	57	07N	117	03	48	4.14	D	11/70-
11-0233.25	BEEFLER CREEK AT POMERADO ROAD, NEAR POWAY, CALIF.	32	56	23N	117	03	57	5.46	D	11/69-
11-0233.30	LOS PENASQUITOS CREEK BELOW POWAY CREEK, NEAR POWAY, CALIF.	32	56	58N	117	04	08	31.2	D	10/69-
11-0420.00	SAN LUIS REY RIVER AT OCEANSIDE, CALIF.	33	12	48N	117	22	33	557	D	10/68-
11-0460.00	SANTA MARGARITA RIVER AT YSIDORA, CALIF.	33	14	38N	117	22	56	739	D	10/67-
11-0465.00	SAN JUAN CREEK NEAR SAN JUAN CAPISTRANO, CALIF.	33	31	08N	117	37	27	106	D	10/66- 9/68 D 10/70-
11-0470.00	ARRUYO TRABUCO NEAR SAN JUAN CAPISTRANO, CALIF.	33	31	36N	117	40	08	35.7	D	10/66- 9/68 D 10/70-
11-0702.32	EAST FORK PIGEON PASS CREEK AT HEACOCK STREET, NEAR SUNNYMEAD, CALIF.	33	57	49N	117	14	35	.48	P	11/69-
11-0702.40	SUNNYMEAD CHANNEL AT ALESSANDRO BOULEVARD, NEAR SUNNYMEAD, CALIF.	33	55	02N	117	14	34	13.3	P	1/70-
11-0702.62	PERRIS VALLEY STORM DRAIN LATERAL B AT PERRIS BLVD., NEAR MARCH FIELD	33	54	37N	117	16	08	10.6	P	11/69-
11-0702.70	PERRIS VALLEY STORM DRAIN AT NUFVO ROAD, NEAR PERRIS, CALIF.	33	48	04N	117	12	19	93.3	P	11/69-
11-0740.00	SANTA ANA RIVER BELOW PRADO DAM, CALIF.	33	53	00N	117	38	40	1485	P	8/67-10/67
11-0780.00	SANTA ANA RIVER AT SANTA ANA, CALIF.	33	44	56N	117	54	30	1685	D	10/67-

Station number	Station name	Latitude			Longitude			Drainage area (sq mi)	Sampling frequency	Period of record
		Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
11-1058.50	ARROYO SIMI NEAR SIMI, CALIF.	34	16	41N	118	47	43	66.5	U	10/68-
11-1065.50	CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CALIF.	34	10	46N	119	02	20	243	D	10/68-
11-1080.70	ELIZABETH LAKE CANYON CREEK NEAR CASTAIC, CALIF.	34	33	40N	118	34	10	61.4	P	10/62- 3/66
11-1080.80	FISH CANYON CREEK ABOVE CASTAIC CREEK, NEAR CASTAIC, CALIF.	34	36	09N	118	39	46		P	11/65- 1/66
11-1080.85	CASTAIC CREEK ABOVE CORDOVA RANCHHOUSE, NEAR CASTAIC, CALIF.	34	35	51N	118	39	46	64.2	P	11/61- 6/67
11-1085.00	SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.	34	23	59N	118	42	14	644	D	10/68-
11-1093.00	PIRU CREEK BELOW BUCKS CREEK, NEAR LEBEC, CALIF.	34	39	57N	118	49	22		P	10/64- 3/66
11-1094.00	CANADA DE LOS ALAMOS BELOW APPLE CANYON, CALIF.	34	40	46N	118	47	01		P	10/64- 3/66
11-1095.50	PIRU CREEK ABOVE FRENCHMANS FLAT, CALIF.	34	38	10N	118	45	25		P	10/64- 3/66
11-1096.00	PIRU CREEK ABOVE LAKE PIRU, CALIF.	34	31	40N	118	45	21	372	P	11/65-11/65
11-1115.00	SESPE CREEK NEAR WHEELER SPRINGS, CALIF.	34	34	40N	119	15	25	49.5	P	12/55- 1/56
11-1130.00	SESPE CREEK NEAR FILLMORE, CALIF.	34	27	03N	118	55	30	251	P	1/56- 6/62 D 10/66-
11-1139.20	SANTA CLARA RIVER AT SATICOY, CALIF.	34	16	29N	119	08	11	1595	D	10/67- 2/70
11-1140.00	SANTA CLARA RIVER AT MONTALVO, CALIF.	34	14	31N	119	11	21	1612	D	2/70-
11-1160.00	NORTH FORK MATILIJIA CREEK AT MATILIJIA HOT SPRINGS, CALIF.	34	29	33N	119	18	20	15.6	P	12/55- 9/61
11-1165.50	VENTURA RIVER NEAR MEINERS OAKS, CALIF. ¹	34	27	54N	119	17	18	76.4	P	12/55- 1/56
11-1185.00	VENTURA RIVER NEAR VENTURA, CALIF.	34	21	08N	119	18	27	188	D	10/68-
11-1305.00	SANTA YNEZ RIVER NEAR BUELLTON, CALIF.	34	36	50N	120	14	30	668	P	10/62- 6/68
11-1325.00	SALSIPUEDES CREEK NEAR LOMPOC, CALIF.	34	35	19N	120	24	27	47.1	P	1/56- 4/59 P 10/62- 6/68
11-1370.00	CUYAMA RIVER NEAR SANTA MARIA, CALIF.	35	00	42N	120	16	43	904	P	1/56- 3/59
11-1410.00	SANTA MARIA RIVER AT GUADALUPE, CALIF.	34	58	35N	120	34	15	1741	D	10/68-
11-1411.50	ARROYO GRANDE ABOVE PHOENIX CREEK, NEAR ARROYO GRANDE, CALIF.	35	11	03N	120	26	11	13.4	P	7/67- 2/67 D 10/67-
11-1412.80	LOPEZ CREEK NEAR ARROYO GRANDE, CALIF.	35	13	48N	120	28	22	21.4	D	10/67-
11-1470.40	SANTA RITA CREEK TRIBUTARY NEAR TEMPLETON, CALIF.	35	32	03N	120	50	47	2.95	D	10/67-

¹ FORMERLY PUBLISHED AS VENTURA RIVER BELOW ROBLES, NEAR MATILIJIA HOT SPRINGS.

	11-1470.70 SANTA RITA CREEK NEAR TEMPLETON, CALIF.	35 31 26N 120 45 54	18.2	D	10/67-
	11-1488.00 NACIMIENTO RIVER NEAR BRYSON, CALIF.	35 48 06N 121 06 50	140	D	2/58- 7/59 D 10/60- 9/64 P 10/64- 2/65 D 3/65-
	11-1495.00 NACIMIENTO RIVER NEAR SAN MIGUEL, CALIF.	35 47 00N 120 47 24	343	P	1/50- 2/50 P 1/51- 4/51
	11-1497.00 SAN ANTONIO RIVER AT SAM JONES BRIDGE, NEAR LOCKWOOD, CALIF.	35 54 45N 121 07 50	211	D	2/58- 7/59 D 4/61- 9/65
	11-1499.00 SAN ANTONIO RIVER NEAR LOCKWOOD, CALIF.	35 53 48N 121 05 14	223	D	10/65-
	11-1500.00 SAN ANTONIO RIVER AT PLEYTO, CALIF.	35 51 55N 120 59 30	284	D	10/60- 9/65
	11-1505.00 SALINAS RIVER NEAR BRADLEY, CALIF.	35 55 40N 120 52 00	2535	P	1/50- 2/50
	11-1506.90 SALINAS RIVER AT SAN LUCAS, CALIF.	36 07 02N 121 01 39		D	1/50- 6/50 D 1/51- 3/51
	11-1518.70 ARROYO SECO NEAR GREENFIELD, CALIF.	36 14 15N 121 28 50	113	D	11/61-
	11-1523.00 SALINAS RIVER NEAR CHUALAR, CALIF.	36 33 14N 121 32 50		D	2/50- 2/50 D 1/51- 3/51 D 12/66- 9/69
15	11-1525.00 SALINAS RIVER NEAR SPRECKELS, CALIF.	36 37 52N 121 40 17	4156	P	2/50- 2/50 P 2/51- 2/51 D 10/69-
	11-1529.00 CEDAR CREEK NEAR BELL STATION, CALIF.	37 03 00N 121 19 35	12.8	P	12/70-
	11-1539.00 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.	37 05 34N 121 43 02	21.0	P	10/64- 9/65 D 10/65-
	11-1541.00 BODFISH CREEK NEAR GILROY, CALIF.	37 00 15N 121 39 58	7.40	P	12/70-
	11-1603.00 ZAYANTE CREEK AT ZAYANTE, CALIF.	37 05 10N 122 02 45	11.1	D	1/70-
	11-1625.00 PESCADERO CREEK NEAR PESCADERO, CALIF.	37 15 39N 122 19 39	45.9	P	12/70-
	11-1625.40 BUTANO CREEK NEAR PESCADERO, CALIF.	37 14 01N 122 21 56	18.3	P	12/70-
	11-1627.20 COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.	37 39 14N 122 25 31	10.9	D	3/65-
	11-1627.22 SPRUCE BRANCH AT SOUTH SAN FRANCISCO, CALIF.	37 38 46N 122 25 15	.70	D	3/65- 9/69
	11-1628.00 REDWOOD CREEK AT REDWOOD CITY, CALIF.	37 26 59N 122 13 57	1.82	P	12/70-
	11-1645.00 SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CALIF.	37 25 24N 122 11 18	37.5	P	1/57- 7/62
	11-1660.00 MATADERO CREEK AT PALO ALTO, CALIF.	37 25 18N 122 08 04	7.24	P	12/70-
	11-1690.00 GUADALUPE RIVER AT SAN JOSE, CALIF.	37 20 04N 121 53 54	144	P	2/57- 7/62
	11-1698.00 COYOTE CREEK NEAR GILROY, CALIF.	37 04 40N 121 29 36	109	D	10/64-

SUSP.
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Station number	Station name	Latitude			Longitude			Drainage area (sq mi)	Sampling frequency	Period of record
		Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
11-1762.00	ARROYO MOCHO NEAR PLEASANTON, CALIF.	37	41	26N	121	52	20	141	P	12/70-
11-1765.00	ARROYO VALLE NEAR LIVERMORE, CALIF.	37	37	24N	121	45	28	147	D	10/62- 9/67
11-1790.00	ALAMEDA CREEK NEAR NILES, CALIF.	37	35	14N	121	57	35	633	D	1/57-
11-1824.00	ARROYO DEL HAMBRE AT MARTINEZ, CALIF.	38	00	12N	122	07	44	15.1	P	12/70-
11-1835.00	WALNUT CREEK AT WALNUT CREEK, CALIF.	37	54	21N	122	03	22	79.2	P	1/57- 7/62
11-1836.00	WALNUT CREEK AT CONCORD, CALIF.	37	56	43N	122	02	55	85.1	P	12/70-
11-1870.00	KERN RIVER AT KERNVILLE, CALIF.	35	45	34N	118	25	12	1009	P	10/66-
11-2086.05	EAST FORK KAWeah RIVER BELOW EAGLE CREEK, NEAR HAMMOND, CALIF.	36	26	44N	118	35	38	9.92	P	10/68-
11-2086.07	EAST FORK KAWeah RIVER ABOVE MONARCH CREEK, NEAR HAMMOND, CALIF.	36	27	01N	118	35	40		P	8/68-
11-2086.10	MONARCH CREEK NEAR HAMMOND, CALIF.	36	27	09N	118	35	37	1.89	P	8/68-
11-2086.15	EAST FORK KAWeah RIVER BELOW MONARCH CREEK, NEAR HAMMOND, CALIF.	36	27	09N	118	35	56	12.1	P	8/68-
11-2086.20	EAST FORK KAWeah RIVER BELOW MOSQUITO CREEK, NEAR HAMMOND, CALIF.	36	27	05N	118	37	04	16.0	P	8/68-
11-2086.25	EAST FORK KAWeah RIVER AT SEQUOIA NATIONAL PARK BOUNDARY, NEAR HAMMOND	36	27	30N	118	39	11	23.7	P	8/68-
11-2086.30	ATWELL CREEK ABOVE MINERAL KING HIGHWAY, NEAR HAMMOND, CALIF.	36	27	57N	118	40	30	.66	P	8/68-
11-2086.50	REDWOOD CREEK ABOVE MINERAL KING HIGHWAY, NEAR HAMMOND, CALIF.	36	27	14N	118	42	10	1.38	P	8/68-
11-2086.80	SQUIRREL CREEK BELOW MINERAL KING HIGHWAY, NEAR HAMMOND, CALIF.	36	26	36N	118	46	00	5.80	P	8/58-
11-2087.15	GRUNIGEN CREEK BELOW MINERAL KING HIGHWAY, NEAR HAMMOND, CALIF.	36	26	55N	118	46	18	1.58	P	12/68-
11-2087.30	EAST FORK KAWeah RIVER NEAR THREE RIVERS, CALIF.	36	27	05N	118	47	15	858	P	8/68-
11-2555.00	PANOCHE CREEK BELOW SILVER CREEK, NEAR PANOCHE, CALIF.	36	37	08N	120	40	22	293	P	10/62- 9/67
11-2628.00	LOS BANOS CREEK NEAR LOS BANOS, CALIF.	37	01	00N	120	54	05	159	P	10/62- 6/66
11-2645.00	MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.	37	43	54N	119	33	28	131	P	11/57-
11-3035.00	SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.	37	40	34N	121	15	55	13540	D	10/56-
11-3130.10	DELTA-MENDOTA CANAL BELOW TRACY PUMPING PLANT, NEAR TRACY, CALIF.	37	46	25N	121	34	50		D	4/57- 6/60 D 10/62- 9/66
11-3235.00	MOKELUMNE RIVER BELOW CAMANCHE DAM, CALIF.	38	13	14N	121	02	19	627	P	10/56- 9/70
11-3345.00	COSUMNES RIVER NEAR PLYMOUTH, CALIF.	38	32	20N	120	51	45	429	P	8/57- 9/60

11-3350.00 COSUMNES RIVER AT MICHIGAN BAR, CALIF.	38 30 01N 121 02 39	536	P	8/57- 9/62 D 10/62- 9/70 P 10/70-
11-3360.00 COSUMNES RIVER AT MCCONNELL, CALIF.	38 21 29N 121 20 34	724	P	10/56- 9/67
11-3375.00 MARSH CREEK NEAR BYRON, CALIF.	37 52 24N 121 43 34	42.6	P	12/70-
11-3485.00 PIT RIVER NEAR CANBY, CALIF.	41 24 22N 120 55 36	1431	P	7/57- 9/61 P 10/66- 9/70
11-3710.00 CLEAR CREEK AT FRENCH GULCH, CALIF.	40 41 42N 122 38 08	115	P	9/55- 9/60 D 10/62- 9/65 P 10/65- 9/67
11-3744.00 MIDDLE FORK COTTONWOOD CREEK NEAR OND, CALIF.	40 23 25N 122 31 15	249	P	10/62- 9/64 D 10/64- 9/66 P 10/66- 9/70
11-3758.20 SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD, CALIF.	40 18 59N 122 26 52	217	P	10/62- 9/70
11-3760.00 COTTONWOOD CREEK NEAR COTTONWOOD, CALIF.	40 23 10N 122 14 12	922	P	10/56- 9/62 D 10/62- 9/67
11-3765.00 BATTLE CREEK NEAR COTTONWOOD, CALIF.	40 23 50N 122 08 05	358	P	10/56- 9/61
11-3765.50 BATTLE CREEK BELOW COLEMAN FISH HATCHERY, NEAR COTTONWOOD, CALIF.	40 23 54N 122 08 43	358	P	10/61- 9/70
11-3772.00 SACRAMENTO RIVER AT BEND, CALIF.	40 15 51N 122 13 19	8904	D	1/67- 9/70
11-3780.00 SACRAMENTO RIVER NEAR RED BLUFF, CALIF.	40 13 55N 122 10 50	9022	P	11/56- 9/57
11-3785.00 SACRAMENTO RIVER AT RED BLUFF, CALIF.	40 10 40N 122 13 50		D	10/57-12/66
11-3788.6J RED BANK CREEK AT RAWSON ROAD BRIDGE, NEAR RED BLUFF, CALIF	40 08 20N 122 14 20	109	P	12/63- 9/69
11-3795.00 ELDER CREEK NEAR PASKENTA, CALIF.	40 01 29N 122 30 31	92.9	D	10/62- 9/63 P 10/63-
11-3820.00 THOMES CREEK AT PASKENTA, CALIF.	39 52 57N 122 33 03	194	D	10/62-
11-3865.00 GRINDSTONE CREEK NEAR ELK CREEK, CALIF.	39 40 38N 122 31 51	172	P	9/67-
11-3880.00 STONY CRFEK BELOW BLACK BUTTE DAM, NEAR ORLAND, CALIF.	39 49 07N 122 19 26	741	P	7/57- 8/62
11-3902.10 CHERUKEE CANAL NEAR NELSON, CALIF.	39 34 51N 121 41 54		D	8/70-
11-3906.72 STONE CORRAL CREEK NEAR SITES, CALIF.	39 17 18N 122 18 00	38.2	P	11/65- 6/68
11-3914.00 LITTLE LAST CHANCE CREEK NEAR CHILCOOT, CALIF.	39 53 36N 120 11 17	81.1	P	8/57- 9/62
11-3915.00 BIG GRIZZLY CREEK NEAR PORTOLA, CALIF.	39 52 00N 120 27 20	45.5	P	7/57- 9/66
11-3921.00 MIDDLE FORK FEATHER RIVER NEAR PORTOLA, CALIF.	39 49 13N 120 26 26	590	P	5/70-
11-3922.00 MIDDLE FORK FEATHER RIVER AT DELLEKER, CALIF.	39 48 07N 120 29 42		P	5/70-
11-3933.00 MIDDLE FORK FEATHER RIVER BELOW LONG VALLEY CREEK, AT SLOAT, CALIF.	39 51 58N 120 44 00		P	5/70-

Station number	Station name	Latitude			Longitude			Drainage area (sq mi)	Sampling frequency	Period of record
		Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
11-3935.00	MIDDLE FORK FEATHER RIVER BELOW SLOAT, CALIF.	39	52	00N	120	46	15	819	P	10/56- 9/62
11-4015.00	INDIAN CREEK NEAR CRESCENT MILLS, CALIF.	40	04	42N	120	55	36	739	P	10/56- 9/66
11-4070.00	FEATHER RIVER AT OROVILLF, CALIF.	39	31	13N	121	32	48	3624	D	10/56-
11-4071.50	FEATHER RIVER NEAR GRIDLEY, CALIF.	39	22	00N	121	38	46	3676	D	10/64-
11-4077.00	FEATHER RIVER AT YUBA CITY, CALIF.	39	08	20N	121	36	17	3974	D	10/64-
11-4090.00	MIDDLE YUBA RIVER ABOVE OREGON CREEK, NEAR NORTH SAN JUAN, CALIF.	39	23	36N	121	04	50	162	P	10/66- 9/69
11-4175.00	SOUTH YUBA RIVER AT JONES BAR, NEAR GRASS VALLEY, CALIF.	39	17	32N	121	06	13	308	P	10/66-
11-4230.00	BEAR RIVER NEAR AUBURN, CALIF.	39	01	00N	121	06	21	140	P	10/62- 9/67
11-4335.00	MIDDLE FORK AMERICAN RIVER NEAR AUBURN, CALIF.	38	55	05N	121	00	51	612	P	10/56- 9/67
11-4455.00	SOUTH FORK AMERICAN RIVER NEAR LOTUS, CALIF.	38	49	07N	120	56	45	673	P	10/56- 9/62
11-4475.00	SACRAMENTO RIVER AT SACRAMENTO, CALIF.	38	35	12N	121	30	16	23530	D	10/56-
11-4489.00	HIGHLAND CREEK ABOVE HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.	38	55	48N	122	55	11	11.9	P	12/65- 7/66
11-4490.10	HIGHLAND CREEK BFLOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.	38	56	54N	122	54	03	14.2	D	2/66-
11-4515.00	NORTH FORK CACHE CREEK NEAR LOWER LAKE, CALIF.	39	01	09N	122	34	04	197	P	8/57- 8/66
11-4517.20	BEAR CREEK NEAR RUMSEY, CALIF.	38	56	42N	122	20	42	100	P	1/60- 9/67
11-4517.60	CACHE CREEK ABOVE RUMSEY, CALIF.	38	54	47N	122	16	14	955	D	1/60- 9/62 D 6/65- 9/70
11-4518.00	CACHE CREEK AT RUMSEY, CALIF.	38	53	30N	122	14	20	964	P	1/59- 9/59
11-4520.00	CACHE CREEK NEAR CAPAY, CALIF.	38	43	44N	122	06	15	1044	P	1/59- 4/63
11-4525.00	CACHE CREEK AT YULU, CALIF.	38	43	31N	121	48	22	1139	P	10/57- 9/58 D 10/58- 9/65 P 10/65- 9/66 D 10/66- 2/67
11-4525.50	CACHE CREEK WEIR NEAR WOODLAND, CALIF.	38	41	00N	121	40	18		P	2/59- 9/63
11-4530.00	YOLO BYPASS NEAR WOODLAND, CALIF.	38	40	40N	121	38	35		P	2/57- 9/61
11-4535.00	PUTAH CREEK NEAR GUENOC, CALIF.	38	46	44N	122	30	59	113	D	10/62-11/64 D 12/64- 3/65 P 4/65-

11-4535.50 HUNTING CREEK NEAR KNOXVILLE, CALIF.	38 46 18N 122 24 26	37.8	D	10/70-
11-4535.70 ADAMS CREEK NEAR KNOXVILLE, CALIF.	38 42 17N 122 17 44	7.42	P	10/70-
11-4535.80 NEVADA CREEK NEAR KNOXVILLE, CALIF.	38 42 42N 122 17 31	7.06	P	10/70-
11-4560.00 NAPA RIVER NEAR ST. HELENA, CALIF.	38 29 52N 122 25 37	81.4	D	12/56- 6/62
11-4580.00 NAPA RIVER NEAR NAPA, CALIF.	38 22 06N 122 18 08	218	P	12/70-
11-4582.00 REDWOOD CREEK NEAR NAPA, CALIF.	38 19 04N 122 20 35	9.81	P	12/70-
11-4585.00 SONOMA CREEK AT AGUA CALIENTE, CALIF.	38 19 24N 122 29 36	58.3	P	1/57- 7/62
11-4601.60 MORSE'S CREEK AT BOLINAS, CALIF.	37 55 09N 122 40 09	0.70	P	5/67- 9/69
11-4601.65 AUDUBON CREEK NEAR BOLINAS, CALIF.	37 55 47N 122 40 51	0.46	P	5/67- 9/69
11-4601.70 PINE CREEK AT BOLINAS, CALIF.	37 55 07N 122 41 31	7.83	D	6/67- 9/70
11-4608.00 WALKER CREEK NEAR TOMALES, CALIF.	38 12 35N 122 51 35	37.1	P	12/70-
11-4609.20 SALMON CREEK AT RODEGA, CALIF.	38 20 54N 122 58 45	15.7	P	12/70-
11-4610.00 RUSSIAN RIVER NEAR UKIAH, CALIF.	39 12 07N 123 11 55	99.7	P	1/64- 2/64 D 3/64- 9/68
11-4615.00 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CALIF.	39 14 48N 123 07 45	92.2	D	3/64- 9/64 D 10/66- 9/68
11-4618.00 LAKE MENDOCINO NEAR UKIAH, CALIF.	39 11 53N 123 10 50	105	P	2/64- 9/68
11-4620.00 EAST FORK RUSSIAN RIVER NEAR UKIAH, CALIF.	39 11 45N 123 11 30	105	D	12/52- 3/55 P 1/64- 2/64 D 3/64- 9/68
11-4630.00 RUSSIAN RIVER NEAR CLOVERDALE, CALIF.	38 52 55N 123 03 15	502	P	11/63- 3/64 D 4/64- 9/66 P 10/66-12/66 D 1/67- 9/68
11-4632.00 BIG SULPHUR CREEK NEAR CLOVERDALE, CALIF.	38 49 21N 122 59 07	82.3	P	11/63- 9/66 D 10/66- 9/68
11-4639.00 MAACAMA CREEK NEAR KELLOGG, CALIF.	38 38 25N 122 45 45	43.4	P	11/63- 9/67
11-4652.00 DRY CREEK NEAR GEYSERVILLE, CALIF.	38 41 55N 122 57 25	162	D	3/64-
11-4670.00 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.	38 30 00N 122 56 05	1340	P	10/65- 3/67 D 4/67-
11-4700.00 LAKE PILLSBURY NEAR POTTER VALLEY, CALIF.	39 24 30N 122 57 30	289	P	10/65- 9/67
11-4705.00 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CALIF.	39 24 29N 122 58 13	290	P	10/65- 9/67
11-4710.00 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CALIF.	39 21 42N 123 07 38		D	3/64- 5/68
11-4721.50 EEL RIVER NEAR DOS RIOS, CALIF.	39 37 30N 123 20 25	528	D	10/66-

T 10/72 -

11-4747 CHAMISE CR. NR ISLAND MTN. T 10/72 -
 11-4751 DOBBY N CR. NR FT. SEWARD T 10/72 -

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Station number	Station name	Latitude			Longitude			Drainage area (sq mi)	Sampling frequency	Period of record
		Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
11-4722.00	OUTLET CREEK NEAR LONGVALE, CALIF.	39	37	05N	123	21	20	161	P 10/66- 3/67 D 4/67- 9/70	
11-4725.00	EEL RIVER ABOVE DOS RIOS, CALIF.	39	41	20N	123	21	30	705	P 12/56- 9/57 D 10/57- 9/65	
11-4728.00	MIDDLE FORK EEL RIVER ABOVE BLACK BUTTE RIVER, NEAR COVELO, CALIF.	39	49	45N	123	04	11	204	D 10/67- 9/70	
11-4729.00	BLACK BUTTE RIVER NEAR COVELO, CALIF.	39	49	15N	123	04	50	162	P 10/65-11/66 D 12/66-	
11-4730.00	MIDDLE FORK EEL RIVER BELOW BLACK BUTTE RIVER, NEAR COVELO, CALIF.	39	49	35N	123	05	30	367	D 10/62- 9/67	
11-4731.00	WILLIAMS CREEK NEAR COVELO, CALIF.	39	49	30N	123	08	25	30.4	P 5/61- 9/64 P 10/66- 9/69	
11-4736.00	SHURT CREEK NEAR COVELO, CALIF.	39	49	50N	123	10	56	15.2	P 2/61- 9/64	
11-4737.00	MILL CREEK NEAR COVELO, CALIF.	39	44	45N	123	10	15	96.9	P 10/66- 9/70	
11-4738.00	ELK CREEK NEAR HEARST, CALIF.	39	38	57N	123	07	12	84.1	P 11/65-	
11-4739.00	MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.	39	42	23N	123	19	27	745	P 1/56- 2/56 P 12/56- 9/57 D 10/57- T 10/72 -	
11-4740.00	EEL RIVER BELOW DOS RIOS, CALIF.	39	44	15N	123	22	15	1484	P 1/56- 2/56 P 10/65- 9/67	
11-4744.00	MULLS CREEK NEAR COVELO, CALIF.	39	54	50N	123	14	55	25.9	P 5/61- 9/64	
11-4745.00	NORTH FORK EEL RIVER NEAR MINA, CALIF.	39	56	18N	123	20	36	248	P 10/65- 9/67 T 10/72 -	
11-4750.00	EEL RIVER AT FORT SEWARD, CALIF.	40	13	05N	123	37	54	2107	D 10/65- T 10/72 -	
11-4755.00	SOUTH FORK EEL RIVER NEAR BRANSCOMB, CALIF.	39	43	09N	123	39	06	43.9	P 8/51- 9/62 D 10/62- 9/70	
11-4755.60	ELDER CREEK NEAR BRANSCOMB, CALIF.	39	43	47N	123	38	34	6.50	P 12/68-	
11-4765.00	SOUTH FORK EEL RIVER NEAR MIRANDA, CALIF.	40	10	55N	123	46	30	537	P 9/55- 2/56 P 10/56- 9/62	
11-4766.00	BULL CREEK NEAR WEUTT, CALIF.	40	21	05N	124	00	10	28.1	P 10/66- 7/67	
11-4770.00	EEL RIVER AT SCOTIA, CALIF.	40	29	30N	124	05	55	3113	P 9/55- 9/57 D 10/57-	
11-4785.00	VAN DUZEN RIVER NEAR BRIDGEVILLE, CALIF.	40	28	50N	123	53	23	222	P 9/55- 9/67	

11-4805.00 MAD RIVER NEAR FOREST GLEN, CALIF.	40 27 30N 123 30 35	143	P	1/57-
11-4807.50 MAD RIVER NEAR KNEELAND, CALIF.	40 45 50N 123 53 20	352	P	10/70-
11-4810.00 MAD RIVER NEAR ARCATA, CALIF.	40 54 35N 124 03 35	485	P D	9/55- 9/57 12/57-
11-4822.00 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.	41 10 19N 123 56 52	183	P	11/70-
11-4825.00 REDWOOD CREEK AT ORICK, CALIF.	41 17 20N 124 03 30	278	P D	9/55- 5/56 3/70-
11-5175.00 SHASTA RIVER NEAR YREKA, CALIF.	41 49 23N 122 35 40	793	P P	9/55- 5/56 7/57- 9/62
11-5195.00 SCOTT RIVER NEAR FORT JONES, CALIF.	41 38 28N 123 00 54	653	P	9/55- 5/56
11-5205.00 KLAMATH RIVER NEAR SEIAD VALLEY, CALIF.	41 51 14N 123 13 52	6980	P	9/55- 5/56
11-5225.00 SALMON RIVER AT SOMES BAR, CALIF.	41 22 40N 123 28 35	751	P	9/55- 5/56
11-5230.00 KLAMATH RIVER AT ORLEANS, CALIF.	41 18 13N 123 32 00	8500	P P D	9/55- 6/59 10/66-12/66 1/67-
11-5255.00 TRINITY RIVER AT LEWISTON, CALIF.	40 43 10N 122 48 09	728	P	9/55- 9/61
11-5258.00 WEAVER CREEK NEAR DOUGLAS CITY, CALIF.	40 40 06N 122 56 31	48.4	P	10/62- 9/69
11-5265.00 NORTH FORK TRINITY RIVER AT HELENA, CALIF.	40 46 55N 123 07 40	151	P	10/62- 9/70
11-5270.00 TRINITY RIVER NEAR BURNT RANCH, CALIF.	40 47 20N 123 26 20	1439	P	10/67- 9/68
11-5287.00 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CALIF.	40 39 00N 123 29 35	764	D	10/66- 9/70
11-5290.00 SOUTH FORK TRINITY RIVER NEAR SALVER, CALIF.	40 50 30N 123 34 00	898	P D	9/55- 4/56 10/56- 9/67
11-5300.00 TRINITY RIVER NEAR HOOPA, CALIF.	41 03 00N 123 40 15	2865	P D	9/55- 5/56 10/56-
11-5305.00 KLAMATH RIVER NEAR KLAMATH, CALIF.	41 30 45N 123 58 30	12100	P	9/55- 5/56
11-5325.00 SMITH RIVER NEAR CRESCENT CITY, CALIF.	41 47 20N 124 03 20	609	P	9/55- 2/56

ALPHABETICAL LIST OF SEDIMENT STATIONS

Station name	Station number
ADAMS CREEK NEAR KNOXVILLE, CALIF.	11-4535.70
ALAMEDA CREEK NEAR NILES, CALIF.	11-1790.00
ARROYO DEL HAMBRE AT MARTINEZ, CALIF.	11-1824.00
ARROYO GRANDE ABOVE PHOENIX CREEK, NEAR ARROYO GRANDE, CALIF.	11-1411.50
ARROYO MOCHO NEAR PLEASANTON, CALIF.	11-1762.00
ARROYO SECO NEAR GREENFIELD, CALIF.	11-1518.70
ARROYO SIMI NEAR SIMI, CALIF.	11-1058.50
ARROYO TRABUCO NEAR SAN JUAN CAPISTRANO, CALIF.	11-0470.00
ARROYO VALLE NEAR LIVERMORE, CALIF.	11-1765.00
ATWELL CREEK ABOVE MINERAL KING HIGHWAY, NEAR HAMMOND, CALIF.	11-2086.30
AUDUBON CREEK NEAR BOLINAS, CALIF.	11-4601.65
BATTLE CREEK BELOW COLEMAN FISH HATCHERY, NEAR COTTONWOOD, CALIF.	11-3765.50
BATTLE CREEK NEAR COTTONWOOD, CALIF.	11-3765.00
BEAR CREEK NEAR RUMSEY, CALIF.	11-4517.20
BEAR RIVER NEAR AUBURN, CALIF.	11-4230.00
BEELEER CREEK AT PUMERADU ROAD, NEAR POWAY, CALIF.	11-0233.25
BIG GRIZZLY CREEK NEAR PORTOLA, CALIF.	11-3915.00
BIG SULPHUR CREEK NEAR CLOVERDALE, CALIF.	11-4632.00
BLACK BUTTE RIVER NEAR COVELO, CALIF.	11-4729.00
BODFISH CREEK NEAR GILROY, CALIF.	11-1541.00
BULL CREEK NEAR WEDD, CALIF.	11-4766.00
BUTANO CREEK NEAR PESCADERO, CALIF.	11-1625.40
CACHE CREEK ABOVE RUMSEY, CALIF.	11-4517.60
CACHE CREEK AT RUMSEY, CALIF.	11-4518.00
CACHE CREEK AT YOLO, CALIF.	11-4525.00
CACHE CREEK NEAR CAPAY, CALIF.	11-4520.00
CACHE CREEK WEIR NEAR WOODLAND, CALIF.	11-4525.50
CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CALIF.	11-1065.50
CANADA DE LOS ALAMOS BELOW APPLE CANYON, CALIF.	11-1094.00
CASTAIC CREEK ABOVE CURDOVA RANCHHOUSE, NEAR CASTAIC, CALIF.	11-1080.85
CEDAR CREEK NEAR BELL STATION, CALIF.	11-1529.00
CHEROKEE CANAL NEAR NELSON, CALIF.	11-3902.10
CLEAR CREEK AT FRENCH GULCH, CALIF.	11-3710.00
COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.	11-1627.20
COSUMNES RIVER AT MCCONNELL, CALIF.	11-3360.00
COSUMNES RIVER AT MICHIGAN BAR, CALIF.	11-3350.00
COSUMNES RIVER NEAR PLYMOUTH, CALIF.	11-3345.00
COTTONWOOD CREEK NEAR COTTONWOOD, CALIF.	11-3760.00
CUYOTE CREEK NEAR GILROY, CALIF.	11-1698.00
CRUNIGEN CREEK BELOW MINERAL KING HIGHWAY, NEAR HAMMOND, CALIF.	11-2087.15
CUYAMA RIVER NEAR SANTA MARIA, CALIF.	11-1370.00
DELTA-MENDOTA CANAL BELOW TRACY PUMPING PLANT, NEAR TRACY, CALIF.	11-3130.10
DRY CREEK NEAR GEYSERVILLE, CALIF.	11-4652.00
EAST FORK KAWEAH RIVER ABOVE MONARCH CREEK, NEAR HAMMOND, CALIF.	11-2086.07
EAST FORK KAWEAH RIVER AT SEQUOIA NATIONAL PARK BOUNDARY, NEAR HAMMOND	11-2086.25
EAST FORK KAWEAH RIVER BELOW EAGLE CREEK, NEAR HAMMOND, CALIF.	11-2086.05
EAST FORK KAWEAH RIVER BELOW MONARCH CREEK, NEAR HAMMOND, CALIF.	11-2086.15
EAST FORK KAWEAH RIVER BELOW MOSQUITO CREEK, NEAR HAMMOND, CALIF.	11-2086.20
EAST FORK KAWEAH RIVER NEAR THREE RIVERS, CALIF.	11-2087.30
EAST FORK OF WEST FORK MUJAVE RIVER ABOVE CEDAR SPRINGS, CALIF.	10-2607.00
EAST FORK PIGEON PASS CREEK AT HEACOCK STREET, NEAR SUNNYMEAD, CALIF.	11-0702.32
EAST FORK RUSSIAN RIVER NEAR CALPELLA, CALIF.	11-4615.00
EAST FORK RUSSIAN RIVER NEAR UKIAH, CALIF.	11-4620.00
EEL RIVER ABOVE DOS RIOS, CALIF.	11-4725.00
EEL RIVER AT FORT SEWARD, CALIF.	11-4750.00
EEL RIVER AT SCOTIA, CALIF.	11-4770.00
EEL RIVER BELOW DOS RIOS, CALIF.	11-4740.00
EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CALIF.	11-4705.00

Station name	Station number
EEL RIVER NEAR DOS RIOS, CALIF.	11-4721.50
ELDER CREEK NEAR BRANSCOMB, CALIF.	11-4755.60
ELDER CREEK NEAR PASKENTA, CALIF.	11-3795.00
ELIZABETH LAKE CANYON CREEK NEAR CASTAIC, CALIF.	11-1080.70
ELK CREEK NEAR HEARST, CALIF.	11-4738.00
FEATHER RIVER AT ORVILLE, CALIF.	11-4070.00
FEATHER RIVER AT YUBA CITY, CALIF.	11-4077.00
FEATHER RIVER NEAR GRIDLEY, CALIF.	11-4071.50
FISH CANYON CREEK ABOVE CASTAIC CREEK, NEAR CASTAIC, CALIF.	11-1080.80
GRINDSTONE CREEK NEAR ELK CREEK, CALIF.	11-3865.00
GUADALUPE RIVER AT SAN JOSE, CALIF.	11-1690.00
HIGHLAND CREEK ABOVE HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.	11-4489.00
HIGHLAND CREEK BELOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.	11-4490.10
HULLS CREEK NEAR COVELO, CALIF.	11-4744.00
HUNTING CREEK NEAR KNOXVILLE, CALIF.	11-4535.50
INDIAN CREEK NEAR CRESCENT MILLS, CALIF.	11-4015.00
KERN RIVER AT KERNVILLE, CALIF.	11-1870.00
KLAMATH RIVER AT ORLEANS, CALIF.	11-5230.00
KLAMATH RIVER NEAR KLAMATH, CALIF.	11-5305.00
KLAMATH RIVER NEAR SEIAD VALLEY, CALIF.	11-5205.00
LAKE MENDOCINO NEAR UKIAH, CALIF.	11-4618.00
LAKE PILLSBURY NEAR PUTTER VALLEY, CALIF.	11-4700.00
LITTLE LAST CHANCE CREEK NEAR CHILCOOT, CALIF.	11-3914.00
LUPEZ CREEK NEAR ARROYO GRANDE, CALIF.	11-1412.80
LUS BANDS CREEK NEAR LOS BANDS, CALIF.	11-2628.00
LUS PENASQUITOS CREEK BELOW POWAY CREEK, NEAR POWAY, CALIF.	11-0233.30
MAACAMA CREEK NEAR KELLOGG, CALIF.	11-4639.00
MAD RIVER NEAR ARCATA, CALIF.	11-4810.00
MAD RIVER NEAR FOREST GLEN, CALIF.	11-4805.00
MAD RIVER NEAR KNEELAND, CALIF.	11-4807.50
MARSH CREEK NEAR BYRON, CALIF.	11-3375.00
MATADERO CREEK AT PALO ALTO, CALIF.	11-1660.00
MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.	11-2645.00
MIDDLE FORK AMERICAN RIVER NEAR AUBURN, CALIF.	11-4335.00
MIDDLE FORK COTTONWOOD CREEK NEAR ONO, CALIF.	11-3744.00
MIDDLE FORK EEL RIVER ABOVE BLACK BUTTE RIVER, NEAR COVELO, CALIF.	11-4728.00
MIDDLE FORK EEL RIVER BELOW BLACK BUTTE RIVER, NEAR COVELO, CALIF.	11-4730.00
MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.	11-4739.00
MIDDLE FORK FEATHER RIVER AT DELLEKER, CALIF.	11-3922.00
MIDDLE FORK FEATHER RIVER BELOW LONG VALLEY CREEK, AT SLOAT, CALIF.	11-3933.00
MIDDLE FORK FEATHER RIVER BELOW SLOAT, CALIF.	11-3935.00
MIDDLE FORK FEATHER RIVER NEAR PORTOLA, CALIF.	11-3921.00
MIDDLE YUBA RIVER ABOVE OREGON CREEK, NEAR NORTH SAN JUAN, CALIF.	11-4090.00
MILL CREEK NEAR COVELO, CALIF.	11-4737.00
MUKELUMNE RIVER BELOW GAMANCHE DAM, CALIF.	11-3235.00
MUNARCH CREEK NEAR HAMMOND, CALIF.	11-2086.10
MURSES CREEK AT BOLINAS, CALIF.	11-4601.60
NACIMIENTO RIVER NEAR BRYSON, CALIF.	11-1488.00
NACIMIENTO RIVER NEAR SAN MIGUEL, CALIF.	11-1495.00
NAPA RIVER NEAR NAPA, CALIF.	11-4580.00
NAPA RIVER NEAR ST. HELENA, CALIF.	11-4560.00
NEVADA CREEK NEAR KNOXVILLE, CALIF.	11-4535.80
NORTH FORK CACHE CREEK NEAR LOWER LAKE, CALIF.	11-4515.00
NORTH FORK EEL RIVER NEAR MINA, CALIF.	11-4745.00
NORTH FORK MATILIJIA CREEK AT MATILIJIA HOT SPRINGS, CALIF.	11-1160.00
NORTH FORK TRINITY RIVER AT HELENA, CALIF.	11-5265.00
OUTLET CREEK NEAR LONGVALE, CALIF.	11-4722.00
PANOCHE CREEK BELOW SILVER CREEK, NEAR PANOCHE, CALIF.	11-2555.00
PERRIS VALLEY STORM DRAIN AT NUEVO ROAD, NEAR PERRIS, CALIF.	11-0702.70
PERRIS VALLEY STORM DRAIN LATERAL B AT PERRIS BLVD., NEAR MARCH FIELD	11-0702.62
PESCADERO CREEK NEAR PESCADERO, CALIF.	11-1625.00
PINE CREEK AT BOLINAS, CALIF.	11-4601.70

Station name	Station number
PIRU CREEK ABOVE FRENCHMANS FLAT, CALIF.	11-1095.50
PIRU CREEK ABOVE LAKE PIRU, CALIF.	11-1096.00
PIRU CREEK BELOW BUCKS CREEK, NEAR LEBEC, CALIF.	11-1093.00
PIT RIVER NEAR CANBY, CALIF.	11-3485.00
POWERADO CREEK AT GLENUAK ROAD, NEAR POWAY, CALIF.	11-0233.18
POWERADO CREEK AT POWAY ROAD, NEAR POWAY, CALIF.	11-0233.20
POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CALIF.	11-4710.00
POWAY CREEK NEAR POWAY, CALIF.	11-0232.50
POWAY CREEK TRIBUTARY AT OAK KNOLL ROAD, NEAR POWAY, CALIF.	11-0233.15
PUTAH CREEK NEAR GUENOC, CALIF.	11-4535.00
RATTLESNAKE CREEK AT POWAY, CALIF.	11-0233.10
RED BANK CREEK AT RAWSON ROAD BRIDGE, NEAR RED BLUFF, CALIF.	11-3788.60
REDWOOD CREEK ABOVE MINERAL KING HIGHWAY, NEAR HAMMOND, CALIF.	11-2086.50
REDWOOD CREEK AT ORICK, CALIF.	11-4825.00
REDWOOD CREEK AT REDWOOD CITY, CALIF.	11-1628.00
REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.	11-4822.00
REDWOOD CREEK NEAR NAPA, CALIF.	11-4582.00
RUSSIAN RIVER NEAR CLOVERDALE, CALIF.	11-4630.00
RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.	11-4670.00
RUSSIAN RIVER NEAR UKIAH, CALIF.	11-4610.00
SACRAMENTO RIVER AT BEND, CALIF.	11-3772.00
SACRAMENTO RIVER AT RED BLUFF, CALIF.	11-3785.00
SACRAMENTO RIVER AT SACRAMENTO, CALIF.	11-4475.00
SACRAMENTO RIVER NEAR RED BLUFF, CALIF.	11-3780.00
SAGEHEN CREEK NEAR TRUCKEE, CALIF.	10-3435.00
SALINAS RIVER AT SAN LUCAS, CALIF.	11-1506.90
SALINAS RIVER NEAR BRADLEY, CALIF.	11-1505.00
SALINAS RIVER NEAR CHUALAR, CALIF.	11-1523.00
SALINAS RIVER NEAR SPRECKELS, CALIF.	11-1525.00
SALMON CREEK AT BODEGA, CALIF.	11-4609.20
SALMON RIVER AT SOMES BAR, CALIF.	11-5225.00
SALSIPUEDES CREEK NEAR LUMPOC, CALIF.	11-1325.00
SAN ANTONIO RIVER AT PLEYTO, CALIF.	11-1500.00
SAN ANTONIO RIVER AT SAM JONES BRIDGE, NEAR LUCKWOOD, CALIF.	11-1497.00
SAN ANTONIO RIVER NEAR LOCKWOOD, CALIF.	11-1499.00
SAN DIEGO RIVER NEAR SANTEE, CALIF.	11-0225.00
SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CALIF.	11-1645.00
SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.	11-3035.00
SAN JUAN CREEK NEAR SAN JUAN CAPISTRANO, CALIF.	11-0465.00
SAN LUIS REY RIVER AT OCEANSIDE, CALIF.	11-0420.00
SANTA ANA RIVER AT SANTA ANA, CALIF.	11-0780.00
SANTA ANA RIVER BELOW PRADO DAM, CALIF.	11-0740.00
SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.	11-1085.00
SANTA CLARA RIVER AT MONTALVO, CALIF.	11-1140.00
SANTA CLARA RIVER AT SATICOY, CALIF.	11-1139.20
SANTA MARGARITA RIVER AT YSIDORA, CALIF.	11-0460.00
SANTA MARIA RIVER AT GUADALUPE, CALIF.	11-1410.00
SANTA RITA CREEK NEAR TEMPLETON, CALIF.	11-1470.70
SANTA RITA CREEK TRIBUTARY NEAR TEMPLETON, CALIF.	11-1470.40
SANTA YNEZ RIVER NEAR BUELLTON, CALIF.	11-1305.00
SCOTT RIVER NEAR FORT JONES, CALIF.	11-5195.00
SESPE CREEK NEAR FILLMORE, CALIF.	11-1130.00
SESPE CREEK NEAR WHEELER SPRINGS, CALIF.	11-1115.00
SHASTA RIVER NEAR YREKA, CALIF.	11-5175.00
SHORT CREEK NEAR COVELO, CALIF.	11-4736.00
SMITH RIVER NEAR CRESCENT CITY, CALIF.	11-5325.00
SUNOMA CREEK AT AGUA CALIENTE, CALIF.	11-4585.00
SOUTH FORK AMERICAN RIVER NEAR LOTUS, CALIF.	11-4455.00
SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD, CALIF.	11-3758.20
SOUTH FORK EEL RIVER NEAR BRANSCOMB, CALIF.	11-4755.00
SOUTH FORK EEL RIVER NEAR MIRANDA, CALIF.	11-4765.00

Station name	Station number
SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CALIF.	11-5287.00
SOUTH FORK TRINITY RIVER NEAR SALYER, CALIF.	11-5290.00
SOUTH YUBA RIVER AT JONES BAR, NEAR GRASS VALLEY, CALIF.	11-4175.00
SPRUCE BRANCH AT SOUTH SAN FRANCISCO, CALIF.	11-1627.22
SQUIRREL CREEK BELOW MINERAL KING HIGHWAY, NEAR HAMMOND, CALIF.	11-2086.80
STONE CORRAL CREEK NEAR SITFS, CALIF.	11-3906.72
STONY CREEK BELOW BLACK BUTTE DAM, NEAR ORLAND, CALIF.	11-3880.00
SUNNYMEAD CHANNEL AT ALESSANDRO BOULEVARD, NEAR SUNNYMEAD, CALIF.	11-0702.40
THOMES CREEK AT PASKENTA, CALIF.	11-3820.00
TIJUANA RIVER NEAR NESTOR, CALIF.	11-0135.00
TRINITY RIVER AT LEWISTON, CALIF.	11-5255.00
TRINITY RIVER NEAR BURNT RANCH, CALIF.	11-5270.00
TRINITY RIVER NEAR HOOPA, CALIF.	11-5300.00
UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.	11-1539.00
VAN DUZEN RIVER NEAR BRIDGEVILLE, CALIF.	11-4785.00
VENTURA RIVER NEAR MEINERS OAKS, CALIF.	11-1165.50
VENTURA RIVER NEAR VENTURA, CALIF.	11-1185.00
WALKER CREEK NEAR TOMALES, CALIF.	11-4608.00
WALNUT CREEK AT CONCORD, CALIF.	11-1836.00
WALNUT CREEK AT WALNUT CREEK, CALIF.	11-1835.00
WEAVER CREEK NEAR DOUGLAS CITY, CALIF.	11-5258.00
WEST FORK MOJAVE RIVER ABOVE CEDAR SPRINGS, CALIF.	10-2605.50
WEST FORK MOJAVE RIVER BELOW CEDAR SPRINGS, CALIF.	10-2608.00
WILLIAMS CREEK NEAR COVELO, CALIF.	11-4731.00
YJLU BYPASS NEAR WOODLAND, CALIF.	11-4530.00
ZAYANTE CREEK AT ZAYANTE, CALIF.	11-1603.00

REFERENCES CITED

- Guy, H. P., 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques Water-Resources Inv., book 5, chap. C1, 58 p.
- Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. C2, 59 p.
- Harris, K. F., 1962, Inventory of published and unpublished sediment-load data, United States and Puerto Rico, 1950-60: U.S. Geol. Survey Water-Supply Paper 1547, 117 p.
- Porterfield, George, 1972, Computation of fluvial-sediment discharge: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. C3, 66 p.
- Rainwater, F. H., and Thatcher, L. L., 1960, Methods for collection and analysis of water samples: U.S. Geol. Survey Water-Supply Paper 1454, 301 p.
- U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, 1963, Determinations of fluvial-sediment discharge, Report 14 of A study of methods used in measurement and analysis of sediment loads in streams: Washington, U.S. Govt. Printing Office, 151 p.