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Bulletin No. 23-59

SURFACE WATER FLOW For 1959

EDMUND G. BROWN
Governor

WILLIAM E. WARNE
Director of Water Resources

MAY, 1961

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STREAM FLOW MEASUREMENT THROUGH ICE

This is a measurement being made of the flow of a stream whose surface is completely covered by solid ice. The hydrographer has chopped an elongated opening through the ice and, using the ice as a bridge, is measuring the velocity of flow at various points along the cross section. The flow in the stream is relatively small, the usual case under frozen over conditions; so the hydrographer is using a pygmy meter.

The stream gaging station where this measurement is pictured is Eagle Creek at Eagleville. Eagle Creek rises at its source on Eagle Peak, highest peak of the Warner Range in northeastern California, and flows easterly about six miles into Middle Alkali Lake in Surprise Valley. The gaging station is about midway between the source and outlet.

This photograph was taken on January 26, 1960. The hydrographer is Paul E. Simpson of the California State Department of Water Resources.

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at Collinsville		265	50
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near Freeport		255	50
at Fremont Weir East End		230	50
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at Hamilton City	79	218	50
at Isleton		260	50
at Keswick		213	51
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WILLIAM E. WARNE
DIRECTOR

EDMUND G. BROWN
GOVERNOR

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STATE OF CALIFORNIA

Department of Water Resources

SACRAMENTO

May 10, 1961

Honorable Edmund G. Brown, Governor,
and Members of the Legislature
of the State of California

Gentlemen:

I have the honor to transmit herewith Bulletin No. 23-59, "Surface Water Flow for 1959". The basic data of stream flow, water stages, diversions, utilization, and salinity are presented in this report on an areal basis in accordance with the subdivision of the State into hydrographic areas.

This report continues the publication of water flow and utilization data collected and published as part of the Sacramento-San Joaquin Water Supervision Program. It also includes the daily mean and crest stages data formerly published in "Flood Flows and Stages in Sacramento and Northern San Joaquin Valleys".

Sincerely yours,

William E. Warne

Director

FOREWORD

This report presents to the user the extensive and varied basic hydrographic data resulting from thousands of measurements and observations of surface water flow and usage.

The three predominant types of data - stream flow, diversions, and daily mean and crest stages - are presented for time periods related to their occurrence and use: viz., stream flow, for the water year (October 1, 1958, through September 30, 1959); diversions, for the diversion period November 1, 1958, through October 31, 1959, which includes the agricultural season of the 1959 calendar year; and daily mean and crest stages, for the period November 1, 1958, through June 30, 1959, encompassing the interval of high water flows occurring in California streams.

ACKNOWLEDGMENT

A large amount of the basic data presented in this report was necessarily obtained with the cooperation and assistance of many individuals, corporations, political subdivisions, and governmental agencies. It is gratifying to receive and to acknowledge this assistance. The fact that the assistance has been whole-hearted and objective is evidence of the interest shown in the water supplies of California and the importance given to this vital commodity by these agencies.

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

EDMUND G. BROWN, Governor
WILLIAM E. WARNE*, Director of Water Resources
ALFRED R. GOLZE, Chief Engineer

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* Mr. Harvey O. Banks was Director of the Department of Water Resources during the collection of data presented in this report.
** Charles A. McCullough was Chief of the Hydraulic Section during the collection of data covered in this report.

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INTRODUCTION

This bulletin presents data of Surface Water flow in California for the water year October 1, 1958, through September 30, 1959. It contains a record of information collected and assembled by the Department of Water Resources in the Central Valley Area, the North Coastal Area, and the Lahontan Area as shown on Plate 1. This volume is one of a series of annual reports.

"Report of Sacramento-San Joaquin Water Supervision", was published annually from 1924 through 1955. Current data as published in that bulletin is now included as a part of this publication. Data appearing in the same form published from 1913 through 1956, in "Flood Flows and Stages in Sacramento and Northern San Joaquin Valleys" is also included as a part of this bulletin.

The objective in publishing this report is to bring together, in a permanent and usable form, all surface flow data gathered by the Department of Water Resources. Other relevant data is added for the convenience of the user.

The field work necessary for this bulletin includes (1) construction and maintenance of stream gaging stations, (2) measurements of flows and stages in streams, and of return flows to these streams, either through drainage pumps or by gravity drains, and (3) determination of amounts and usage of water diverted by individual users. The amounts of water diverted by the users are determined by calibrating suitable measuring devices at all points of gravity diversion, by rating the capacity of each diversion pumping plant, and collecting data for hours of operation.

The related office work consists of compilation and computation of field data for presentation in report form. The computation of stream flow and drainage involves the conversion of the daily gage height records to quantities of daily flows in second-feet and monthly runoff in acre-feet. Water diversion computations involve the conversion of diversion records to quantities of monthly diversions in acre-feet.

Definition of Terms

A list of definitions of terms as used herein follows:

Second-foot or cubic foot per second is the unit rate of discharge of water. It is a cubic foot of water passing a given point in one second.

Acre-foot is the quantity of water required to cover one acre to a depth of one foot and is equivalent to 43,560 cubic feet or 325,850 gallons.

Drainage area for a given stream above a given point (e.g. a gaging station) is the area enclosed by a topographic divide in which all surface runoff will drain by gravity into the stream above the specified point.

Unimpaired runoff is the flow that would occur naturally at a point in a stream if there were: (1) no upstream controls such as dams and reservoirs; (2) no artificial diversions or accretions; and (3) no changes in ground water storage resulting from

development. Unimpaired flow is computed from measured runoff by allowing for man-made changes in the natural conditions.

Water year is the 12-month period from October 1 of any year through September 30 of the subsequent year, and is designated by the calendar year in which it ends.

Consumptive use refers to the water transpired, evaporated, and used in promoting vegetative growth and to the water evaporated from adjacent soil and water surfaces.

TABLES

The tabular data presented herein are divided into five categories: stream flow, flood period stage, diversions and acreages irrigated, summary, and supplementary tables. Gaging stations added to and deleted from the network during the year are presented in Tables 2,25, and 357. A list of measurements at miscellaneous sites are shown in Tables 17, 175, and 369.

Flow data for 65 stations published, in U. S. Geological Survey Water Supply papers and previously included in the Bulletin 23 series, have not been included in this bulletin. Stage data for 37 of these stations will, however, continue to be published. A list of stations added or deleted is contained in the "Tables of Additions or Deletions" presented with each hydrographic area.

Certain tables in this report contain data received entirely from agencies other than the Department of Water Resources. These data are published as they are received from the publishing agency. Other tables contain data collected and compiled by the Department of Water Resources, together with material from other agencies. All the data have been rounded to the number of significant figures as shown in the tabulation under "Stream Flow".

Stream Flow

The stream flow tables are arranged for each stream or stream system in downstream order. All stations on a tributary stream entering above a main stem station are listed before that station. Stations on a tributary entering between two main stem stations are listed between those stations. Included with the stream flow tables are tables showing reservoir content in acre-feet. A stream gaging station is given its name from that of the nearest post office (Feather River at Yuba City) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

All stream flow data reported herein are derived through the use of mechanical, arithmetical and empirical operations and methods. Since the results are affected by inherent inaccuracies in the procedures and equipment used, it becomes necessary to establish limits of accuracy for which the data are reported.

The following is a listing of significant figures used in reporting stream flow data:

1.	Daily flows	second-feet
	0.0 - 9.9	Tenths
	10 - 99	2 significant figures
	100 - up	3 significant figures
2.	Means	Second-feet
	0.0 - 99.9	Tenths
	100 - 999	3 significant figures
	1000 - up	4 significant figures

The water year totals are reported to a maximum of four significant figures.

Flood Period Stage

Two types of daily data are presented on the height or stage of water surface; (1) for streams subject to tidal influences daily maximum and minimum gage heights: (2) for those streams beyond tidal influence, daily mean gage height, or an average of one or more daily staff-gage or wire-weight gage readings. Of the 128 stations for which daily stages are presented in this report, 24 have computed daily mean flow. This data is included in the stream flow tables.

Gage heights for stage tables are read in the field or computed from recorder charts and are reported to the tenth of a foot.

Daily gage heights, in feet, are tabulated for each day of the period from November 1 through June 30. The elevation of the water surface at the gaging station may be obtained by adding the gage height readings to the elevation of the gage datum presented in Tables 1, 24 and 356.

Diversions and Acreages Irrigated

These tables show the water diverted during the period from November 1 through October 31 and the acreage irrigated. While the major use of water is for agriculture, small amounts that are diverted for municipal and industrial use also are reported.

Because of the intermittent operation of most diversion facilities, the monthly diversion values are reported in acre-feet to three significant figures. The totals for individual water users and stream reaches are reported to four significant figures.

The amount of water applied varies with the crop grown. However, as the amount of water applied for the production of rice may be as much as twice the average applied to other crops, irrigated acreage data is presented for rice separately.

Summary

Stream Flow, Diversions and Accretions. The relationship between water supply and diversions is inherent in the consideration of water conditions. This is of particular consequence during years of subnormal runoff, when the demand may equal or exceed the supply. Tables 22 and 23 bring together water supply and water demand factors for the Sacramento and San Joaquin Rivers and tributaries. Water supply consists of stream flow and flow from drains. Demand is represented by diversions for irrigation. Quantities of unmeasured accretions from such factors as release from bank storage, evaporation, return flow, unmeasured minor tributaries, and other related factors are also included.

These summary tables show quantities which vary greatly in magnitude. Therefore, for ease of use, all quantities are rounded off to thousands of acre-feet. If a more detailed analysis of a stream or reach is required, reference should be made to the individual stream flow or diversion table. Reference numbers are shown in the column preceding the monthly figures.

Water Supply and Utilization, Sacramento-San Joaquin Delta. The complexity of waterways, tidal action, seepage, and methods of agricultural water use results in hydrologic problems which preclude normal methods of measuring water supply and water use in the Sacramento-San Joaquin Delta.

The correlation of water supply and use for the Delta Service Area, divided into uplands and lowlands, is shown in Table 21. The water supply available to the area is determined from 13 gaging stations, listed under "Water Supply" in the table, and from 42 precipitation stations in the area. "Water Utilization" in the same table includes agricultural use, evaporation, exportations through the Delta-Mendota and Contra Costa Canals, and diversions for the City of Vallejo. Agricultural use in the uplands is determined by direct measurement of diversions: however, in the lowlands, because it cannot be measured directly, agricultural use is computed by unit values of consumptive use of the various crops multiplied by their acreages. Unit values of consumptive use were derived from early experimental work by the University of California and California Extension Service. Crop acreages are determined by periodic land use surveys. Values used in this report were determined from a survey made in 1955.

Annual Comparative Monthly Diversions. Summaries of diversions, by streams for the last 10-year period are given in Tables 178 through 188. The data are given for each month in acre-feet, cubic feet per second, and the monthly percentage in relation to the seasonal total. Data in Table 177 is correlated with the data from Tables 178 through 188 by a comparison with the 10-year average use for each stream. The diversions and acreages irrigated from the Sacramento River above Sacramento for the last 10 years is summarized in Table 189.

A seasonal summary of water utilization in the Sacramento-San Joaquin Valley during the last 10-year period, is presented in Table 176. The gross duty tabulated for the March through October irrigation season shows both the amount of water diverted in acre-feet per acre irrigated and the average number of acres irrigated for each second-foot of water diverted.

Supplementary Tables

The supplementary tables include a description of gaging stations, precipitation data, runoff comparisons, and salinity of streams.

Gaging Station Description. Tables 1, 24 and 356 provide station descriptions and supplemental current and historical data for each gaging station reported. Each gaging station is referenced to a well established datum plane elevation wherever such datum is known. Some gages are referenced only to arbitrarily assumed local datum planes, denoted as "local" in the reference datum column. All gage heights are in feet.

Precipitation. Table 18 presents the monthly precipitation data for the water year, for several stations in the Sacramento and San Joaquin Valleys, from Shasta Dam to Fresno. The stations give a broad and general indication of the rainfall on the floor of the Central Valley.

Runoff Comparisons. The relative magnitude of runoff occurring on any one stream for a given year may be shown as the ratio of the runoff of that year with the average runoff of the stream and expressed as a percentage. For this report, the average unimpaired runoff is computed for the 50-year period October 1907 through September 1957. Table 19 presents, for the major streams of the Central Valley Area, the 1958-59 monthly unimpaired runoff expressed as a percent of the 50-year average monthly unimpaired runoff. Table 20 shows the unimpaired average annual runoff for the same streams and the percentage of the 50-year average unimpaired runoff for each water year from 1919-20 through 1958-59.

Salinity. Table 225 lists the salinity sampling stations within the Sacramento-San Joaquin Delta. The stations are listed beginning with the Golden Gate as zero miles and proceeding upstream through the bay system to the delta area. The salinity samples are taken, when possible, at four-day intervals and at one and one-half hours after high-high tide. The observed concentrations of salinity are given in Table 227. The locations of these stations are shown on Plate 2, together with the limit of maximum seasonal encroachment of salinity of 1000 parts of chloride per million parts of water for the current water year and for other water years of historical interest.

DEPARTMENT REPORTS OF BASIC WATER RESOURCE DATA

Reports issued annually by the Department of Water Resources to record basic hydrologic data and to present conditions of water supply include the following:

Bulletin Series No.	Name
23	Surface Water Flow (Formerly Sacramento-San Joaquin Water Supervision)
39	Water Supply Conditions in Southern California
65	Quality of Surface Waters in California
66	Quality of Ground Waters in California
77	Ground-Water Conditions in Central and Northern California
--	Water Conditions in California (Published in February, March, April, and May of each year.)

NORTH COASTAL AREA

NORTH COASTAL AREA

Introduction

The North Coastal Area extends for about 270 miles along the coast from the California-Oregon line south to the northern boundary of the Lagunitas Creek basin in Marin County. It ranges in width from 180 miles at the Oregon boundary to 30 miles in the southern portion. The topography of the area is predominantly mountainous, with many peaks above 6,000 feet. Mount Shasta, at elevation 14,161 feet, is the highest peak in the region. Stream flow is sustained through the summer and early fall by ground water seepage from a thick, absorptive soil mantle.

Tabular Information

On the following pages are the data for 14 gaging stations for the 1959 water year.

TABLE 1

GAGING STATION DESCRIPTION
NORTH COASTAL AREA

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE					FROM	TO		
BIG CREEK NEAR HAYFORK																
40 33 11	123 08 35	SE 7 31N 11W	664	8.10	1/12/59	1540E	9.25	2/18/58	20460	52870	FEB 57-DATE	FEB 57-DATE	1957		0.00	LOCAL
Station located 30 ft. above Hayfork-Douglas City Highway bridge, 2 mi. E of Hayfork. Tributary to South Fork Trinity River via Hayfork Creek. Flow influenced by upstream diversion dam of City of Hayfork. Drainage area is 27.3 sq. mi. (f)																
BROWNS CREEK NEAR DOUGLAS CITY																
40 38 35	122 58 46	SE10 32N 10W	1830	14.03	1/12/59	3950E	16.60	2/18/58	42990	144500	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL
Station located at private bridge, 2.1 mi. W of Douglas City. Tributary to Trinity River. Drainage area is 71.4 sq. mi. (f)																
CANYON CREEK NEAR KELSEY CREEK GUARD STATION																
41 37 42	123 06 17	SW27 44N 11W	488	97.23	1/12/59				37710	82120	OCT 50-JUL-55 JUN 56-DATE	OCT 50-JUL 55 JUN 56-DATE	1956		94.00	LOCAL
Station located 1.5 mi. S of Kelsey Creek Guard Station, 14 mi. W of Fort Jones. Tributary to Scott River. Drainage area is 24.4 sq. mi. (f)																
EAST FORK SCOTT RIVER AT CALLAHAN																
41 18 40	122 47 58	SW16 40N 8W	2870E	8.64	1/12/59	9300	10.46	12/21/55	64420	163700	OCT 52-DATE	OCT 52-DATE	1952		0.00	LOCAL
Station located at old highway bridge, immediately N of Callahan. Drainage area is 114 sq. mi. (f)																
ETNA CREEK NEAR ETNA																
41 25 53	122 54 57	NE 6 41N 9W	992	9.46	1/12/59				26330	63400	SEP 50-JUN 55 JUN 56-DATE	SEP 50-JUN 55 JUN 56-DATE	1957		0.00	LOCAL
Station located S of Sawyers Bar-Etna Highway, 2.1 mi. SW of Etna. Tributary to Scott River. Flow influenced by upstream diversion dam of City of Etna. Drainage area is 20.1 sq. mi. (f)																
LITTLE SHASTA RIVER NEAR MONTAGUE																
41 45 11	122 17 58	NW15 45N 4W	75	2.53	1/12/59				4371	18880	28-NOV 51ᵘ APR 52-APR 55 SEP 56-DATE	28-NOV 51ᵘ APR 52-APR 55 SEP 56-DATE	1956		0.00	LOCAL
Station located S of Ball Mountain Road, 12 mi. NE of Montague, 16 mi. SW of MacDoel. Stage-discharge relationship at times affected by ice. Drainage area is 48.1 sq. mi. (f)																
MOFFETT CREEK NEAR FORT JONES																
41 38 01	122 44 46	NE27 44N 8W	24	1.99	2/21/59				3450	29010	OCT 52-OCT 54 JUN 57-DATE	OCT 52-OCT 54 JUN 57-DATE	1957		0.00	LOCAL
Station located 90 ft. above Old Fort Jones-Yreka Highway bridge, 5.1 mi. NE of Fort Jones. Tributary to Scott River. Drainage area is 69.8 sq. mi. (f)																
NORTH FORK TRINITY RIVER AT HELENA																
40 46 56	123 07 39	SW21 34N 11W	13500	19.66	1/12/59	13500	19.66	1/12/59	230900	481400	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL
Station located 1.0 mi. above mouth, 0.6 mi. N of Helena. Drainage area is 151 sq. mi. (f)																

E - Estimated
(s) - Record of stage published

ᵘ - Irrigation season only

- Flood season only
(f) - Record of flow published

TABLE 1

GAGING STATION DESCRIPTION
NORTH COASTAL AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S	GAGE HT	DATE	1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
SHACKLEFORD CREEK NEAR MUGGINSVILLE																
41 35 11	123 00 12	SW 9 43N 10W	503E	98.19	1/12/59				29380	50790	OCT 50-SEP 55 JUN 56-DATE	OCT 50-NOV 55 JUN 56-DATE	1956		90.00	LOCAL
Station located 2.8 mi. NW of Mugginsville, 8.4 mi. W of Fort Jones. Tributary to Scott River. Drainage area is 17.7 sq. mi. (f)																
SHASTA RIVER NEAR WEED																
41 24 30	122 25 50	SW 9 41N 5W	536	14.83	1/12/59		16.68	2/24/58	19420		JAN 58-DATE	JAN 58-DATE	1958			LOCAL
Station located 300 ft. below Edgewood Road bridge, 2.8 mi. SW of Weed. Drainage area is 26.6 sq. mi. (f)																
SOUTH FORK SCOTT RIVER NEAR CALLAHAN																
41 17 46	122 48 34	SE20 40N 8W	1360E	5.06	1/12/59	7000E	11.14	12/22/55	44280	112000	OCT 52-DATE	OCT 52-DATE	1956		0.00	LOCAL
Station located 1.1 mi. SW of Callahan, 1.3 mi. above East Fork Scott River. Drainage area is 41.4 sq. mi. (f)																
SUGAR CREEK NEAR CALLAHAN																
41 19 43	122 50 25	SW12 40N 9W	205	6.83	1/12/59				7731	21030	JAN 53-DEC 54 AUG 57-DATE	JAN 53-DEC 54 AUG 57-DATE	1957		0.00	LOCAL
Station located 1.5 mi. above mouth, 2.5 mi. NW of Callahan. Tributary to Scott River. Drainage area is 12.0 sq. mi. (f)																
WEAVER CREEK NEAR DOUGLAS CITY																
40 40 13	122 56 33	SE36 33N 10W	2150E	9.45	1/12/59		10.33	2/24/58	35580	89940	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL
Station located 0.2 mi. below U. S. Highway 299 bridge, 1.2 mi. N of Douglas City, 4.2 mi. S of Weaverville. Tributary to Trinity River. Drainage area is 48.4 sq. mi. (f)																
WILLOW CREEK NEAR GAZELLE																
41 28 45	122 34 21	NE19 42N 6W				7.0	2.64 2.66	3/21/59 3/30/59			MAR 53-MAY 54 MAR 59-DATE	MAR 53-MAY 54 MAR 59-DATE	1959		0.00	LOCAL
Station located at Gazelle-Callahan Road bridge, 4.1 mi. SW of Gazelle. Tributary to Shasta River. Recorder installed March 17, 1959. (f)																

E - Estimated
(s) - Record of stage published
ö - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 2

GAGING STATION
ADDITIONS AND DELETIONS

North Coastal Area

New Stations

Willow Creek near Gazelle

Stations Dropped

None

TABLE 3

DAILY MEAN DISCHARGE
LITTLE SHASTA RIVER NEAR MONTAGUE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.4	4.5	5.1	6.4	7.8	12	15	11	5.1	2.6	2.1	1.9
2	5.7	4.5	5.1	—	7.8	13	18	12	5.1	2.4	1.7	2.1
3	5.4	5.1	5.1	—	7.1	12	18	10	4.8	2.4	2.1	2.1
4	5.4	4.8	5.1	6.8 E	7.8	10	18	9.0	4.8	2.2	2.1	1.9
5	5.4	5.1	4.8	—	7.8	9.8	16	11	5.7	2.4	2.1	2.1
6	5.4	4.8	5.1	—	7.1	9.8	14	12	6.7	2.4	2.1	2.1
7	5.4	5.4	5.7	7.1	6.7	9.0	12	9.4	5.1	2.4	1.7	1.9
8	5.4	5.1	8.2	6.7	6.1	8.6	11	8.6	4.8	2.1	1.9	2.1
9	5.4	6.4	6.7	9.0	5.7	7.8	11	9.0	4.8	2.1	1.9	2.1
10	5.1	6.7	6.1	11	5.7	7.1	10	8.2	4.5	2.1	1.9	2.1
11	5.1	4.8	6.1	13	6.1 E	6.7	11	7.8	4.5	2.1	1.7	1.7
12	5.1	4.3	7.1	41	6.1 E	7.9	11	7.4	4.3	2.1	1.9	1.9
13	4.8	13	6.1	13	6.1 E	8.2	9.8	7.1	4.3	2.1	2.1	1.9
14	4.8	9.0	5.7	9.0	6.1	6.4	9.4	7.8	4.0	2.1	1.9	2.4
15	4.8	5.4	5.7	8.6	6.1	6.4	8.6	7.8	4.0	2.2	1.9	2.8
16	4.8	5.7	5.7	8.2	7.1	7.1	8.2	7.8	3.8	2.1	1.9	2.6
17	4.8	6.1	5.7	7.8	9.0	7.8	7.8	9.0	3.5	2.1	1.9	2.4
18	5.4	6.1	5.7	7.1	8.2	7.4	7.8	7.8	3.3	2.1	1.6	2.8
19	6.7	7.4	5.7	6.4	8.6	6.7	7.4	7.4	3.3	2.1	1.9	2.6
20	5.7	7.4	5.7	5.1	8.2	6.7	7.4	7.1	3.3	2.1	4.3	2.6
21	5.4	6.1	7.1	6.7	8.6	8.2	7.4	6.7	3.3	2.1	3.0	2.6
22	5.4	5.4	5.7	6.4	8.6	8.2	7.8	7.1	3.3	2.1	2.8	2.4
23	5.1	4.8	5.7	6.4	7.4	7.4	7.8	7.4	3.0	1.6	2.4	2.4
24	5.1	5.4	5.7	9.0	6.7	7.8	7.8	7.8	3.3	1.7	2.4	2.2
25	5.1	5.1	6.4	8.2	6.7	11	8.6	7.1	2.8	1.9	2.2	2.4
26	4.8	5.1	7.1	7.4	7.1	15	14	8.2	3.3	2.1	2.2	2.6
27	4.5	4.5	7.4	14	8.6	11	12	7.4	3.0	2.2	2.2	2.8
28	4.5	4.5	7.1	13	11	11	10	6.7	2.8	2.1	2.2	2.4
29	4.5	4.5	6.7	9.0	—	11	9.4	6.4	2.4	2.2	2.2	2.4
30	4.5	4.8	6.7	9.4	—	13	9.0	6.1	2.6	2.2	2.2	2.4
31	4.5	—	6.7	7.4	—	14	—	5.4	—	2.1	2.2	—
Mean	5.1	5.7	6.1	9.4	7.4	9.3	10.8	8.2	4.0	2.1	2.2	2.3
Ac-Ft	316	341	374	576	408	571	645	503	237	132	132	136

E — Estimated NR — No Record

Total Discharge in Acre-Feet 4371

TABLE 4

DAILY MEAN DISCHARGE
SHASTA RIVER NEAR WEED

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	12	10	7.7	22	47	37	47	33	17	2.8	2.8
2	12	12	12	6.5	19	61	50	37	38	17	2.9	2.8
3	11	12	12	4.7	19	62	74	37	41	17	2.8	2.8
4	11	12	12	5.4	19	50	95	27	41	16	2.4	2.8
5	11	12	11	26	18	46	97	30	54	16	2.6	2.8
6	11	12	11	14	17	42	92	29	53	16	2.6	2.8
7	11	12	11	39	17	40	77	33	41	14	2.4	2.8
8	11	12	12	156	17	37	63	34	33	13	2.6	2.8
9	11	16	11	156	16	37	56	37	32	11	2.6	2.6
10	12	19	11	83	17	35	53	37	26	9.0	2.6	2.4
11	12	14	11	129	16	33	45	40	26	8.3	2.3	2.2
12	12	13	11	357	16	38	42	55	36	8.3	2.3	2.0
13	12	15	10	154	16	42	37	84	47	8.7	2.2	2.0
14	10	18	9.7	99	16	36	35	104	43	8.7	2.0	2.3
15	10	14	9.7	74	36	33	34	86	35	7.4	2.0	2.6
16	10	12	9.4	61	205	36	30	71	31	7.4	2.0	2.8
17	10	12	9.0	55	141	47	28	63	24	6.8	2.2	2.8
18	13	12	9.0	39	147	47	25	49	25	6.2	2.2	29
19	15	14	8.7	31	97	42	24	42	34	5.7	2.8	7.4
20	13	14	9.7	25	90	37	23	37	42	5.4	3.1	5.4
21	13	13	11	23	68	41	23	31	45	4.3	3.5	4.7
22	12	13	7.7	21	54	42	29	28	37	4.3	3.1	4.5
23	12	13	8.0	20	39	45	37	31	32	4.3	2.8	4.7
24	12	13	10	49	35	34	50	35	28	4.3	2.6	4.5
25	12	12	10	43	31	36	67	38	28	4.3	2.6	4.5
26	12	12	34	28	31	36	61	42	24	4.3	2.6	4.5
27	12	12	19	57	36	31	39	37	21	4.0	2.4	4.3
28	12	11	11	47	38	33	33	30	19	3.6	2.4	4.3
29	12	11	9.7	33		37	36	25	18	3.6	2.4	4.0
30	11	10	9.0	26		60	39	23	17	3.3	2.6	4.3
31	11		8.7	23		34		25		2.9	2.6	
Mean	11.6	13.0	11.2	61.0	46.2	41.2	47.7	42.7	33.5	8.5	2.5	4.3
Ac-Ft.	716	772	691	3753	2565	2533	2838	2626	1991	520	157	258

E — Estimated NR — No Record

Total Discharge in Acre-Feet 19420

TABLE 5

DAILY MEAN DISCHARGE
WILLOW CREEK NEAR GAZELLE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							5.8	0.5	0.2	0.1	0.1	0
2							6.0	0.6	0.2	0.1	0.1	0
3							6.2	0.6	0.2	0.1	0.1	0
4							6.0	0.7	0.2	0.1	0.1	0
5							6.0	0.7	0.2	0.1	0.1	0
6							6.0	0.7	0.2	0.1	0.1	0
7							5.8	0.6	0.2	0.1	0.1	0
8							5.6	0.6	0.2	0.1	0.1	0
9							5.3	0.5	0.2	0.1	0	0
10							4.9	0.5	0.2	0	0	0
11							4.7	0.5	0.2	0	0	0
12							4.9	0.4	0.2	0	0.1	0
13							4.9	0.4	0.1	0	0.1	0
14							4.9	0.4	0.1	0	0.1	0
15							4.7	0.4	0.1	0	0.1	0
16							4.1	0.4	0.1	0	0.1	0
17						6.2 E	4.1	0.4	0.1	0	0.1	0.1
18						6.2	4.1	0.3	0.1	0	0.1	0.1
19						6.2	4.1	0.3	0.1	0	0.1	0.1
20						6.2	4.0	0.3	0.1	0	0.1	0.1
21						6.5	2.2	0.3	0.1	0	0.1	0.1
22						6.2	0.5	0.3	0.1	0	0.1	0
23						6.2	0.6	0.3	0.1	0	0.1	0
24						6.0	0.6	0.3	0.1	0	0.1	0
25						6.0	0.7	0.3	0.1	0.1	0	0
26						6.2	0.7	0.4	0.1	0.1	0	0
27						5.6	0.7	0.4	0.1	0.1	0	0
28						5.3	0.7	0.3	0.1	0.1	0	0
29						5.6	0.6	0.3	0.1	0.1	0	0
30						6.0	0.5	0.3	0.1	0.1	0	0
31						6.0		0.3		0.1	0	
Mean							3.7	0.4	0.1	0.1	0.1	0.0
Acr-Ft							218	26	8	3	4	1

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 6

DAILY MEAN DISCHARGE
SOUTH FORK SCOTT RIVER NEAR CALLAHAN

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	10	17	20	21	65	65	89	177	154	33	8.2	5.8
2	11	15	24	19	58	69	113	151	165	31	8.2	5.8
3	11	14	24	13	55	69	145	130	162	28	8.2	5.8
4	11	14	23	18	52	65	187	120	159	27	8.2	5.8
5	11	14	21	15	49	65	224	120	165	26	8.2	5.8
6	11	13	20	17	48	67	217	125	148	24	8.2	6.2
7	10	15	20	20	45	67	180	143	130	23	7.8	6.2
8	10	14	24	74	42	65	159	156	122	23	7.8	5.8
9	10	25	23	113	41	64	154	159	113	20	8.2	5.8
10	10	25	22	89	44	61	156	154	101	19	8.2	5.5
11	10	19	22	159	41	61	168	171	104	19	8.7	5.5
12	9.6	17	22	752	39	65	177	213	110	17	8.7	5.2
13	9.1	53	20	235	39	69	171	286	113	17	9.1	5.2
14	9.1	44	19	137	44	58	159	273	101	16	8.7	5.8
15	8.7	24	19	101	52	58	148	206	91	15	8.2	6.2
16	8.7	19	18	89	149	59	137	171	83	15	8.2	6.2
17	8.7	19	17	85	115	69	127	156	76	14	7.8	6.6
18	11	27	17	76	87	70	117	137	79	13	8.2	46
19	19	69	16	70	78	65	117	130	85	12	9.1	20
20	17	46	17	62	76	64	125	125	85	11	11	16
21	16	33	26	58	78	65	143	130	79	11	12	13
22	15	28	19	53	74	67	162	130	70	11	9.6	12
23	15	26	19	49	69	65	190	145	65	10	9.1	11
24	15	24	19	74	61	64	224	156	59	9.1	8.2	9.6
25	15	23	19	65	64	65	231	162	53	8.7	7.8	8.7
26	14	21	24	61	64	69	206	154	50	9.1	7.8	7.8
27	14	20	24	140	61	65	171	135	46	9.1	7.0	7.4
28	15	19	20	140	61	64	165	125	42	9.1	7.0	8.7
29	15	19	24	104		65	183	125	40	9.1	7.0	9.6
30	13	18	24	83		87	196	127	38	9.1	6.6	12
31	13		23	72		79		135		8.7	6.2	
Mean	12.1	24.5	20.9	98.8	62.5	66.1	165	156	96.3	16.4	8.3	9.4
Acr-Ft.	746	1456	1287	6077	3473	4066	9800	9574	5728	1006	510	557

E — Estimated NR — No Record

Total Discharge in Acre-Feet 44280

TABLE 7

DAILY MEAN DISCHARGE
EAST FORK SCOTT RIVER AT CALLAHAN

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	11	19	27	88	164	141	231	132	32	5.1	4.1
2	12	11	20	25	79	175	194	186	141	29	4.8	4.1
3	12	12	20	22	76	177	253	167	137	26	4.8	4.1
4	12	12	19	24	71	164	341	146	132	24	4.8	4.1
5	10	14	19	22	66	154	395	139	141	23	4.8	4.1
6	11	14	18	31	63	154	353	144	132	22	4.8	4.1
7	11	14	18	66	62	149	278	159	110	21	4.4	4.1
8	10	14	18	636	59	141	237	183	106	18	4.4	4.1
9	8.8	19	18	669	57	137	227	189	100	17	4.4	3.8
10	9.5	21	18	302	57	127	227	186	92	16	4.4	3.8
11	10	19	18	560	55	121	240	197	85	15	4.4	3.5
12	9.5	18	18	1670	50	127	250	240	85	14	4.8	3.5
13	9.5	21	18	468	50	141	234	314	88	14	4.4	3.5
14	9.5	29	17	269	52	127	215	341	83	12	4.1	3.5
15	9.5	25	17	197	82	119	203	253	74	11	4.1	3.8
16	9.5	22	16	169	723	121	186	206	69	10	3.8	3.5
17	9.5	23	17	161	370	141	172	189	69	10	3.8	3.8
18	12	28	16	151	322	149	151	169	73	9.5	3.8	17
19	17	34	17	134	234	132	144	149	74	9.0	4.1	9.5
20	17	32	18	114	227	125	156	139	69	8.5	4.4	7.5
21	16	28	24	100	200	137	183	141	66	8.5	5.1	7.1
22	15	26	21	90	175	137	212	139	63	8.0	5.1	6.7
23	15	24	21	83	159	130	237	141	56	7.6	4.8	6.7
24	14	23	21	137	144	119	281	144	53	7.1	4.8	6.7
25	14	22	26	114	139	116	318	151	49	7.1	4.8	6.7
26	14	21	38	96	137	121	285	144	47	6.3	5.1	6.7
27	14	21	44	137	141	112	224	130	43	6.3	4.8	6.3
28	14	20	33	156	151	110	206	121	39	5.9	4.8	6.3
29	14	20	29	125		112	212	116	36	6.3	4.4	5.9
30	14	19	29	108		127	237	116	33	5.9	4.4	5.9
31	12		29	96		119		119		5.5	4.1	
Mean	12.2	20.6	21.7	224	146	135	233	174	82.6	13.4	4.5	5.5
Acr-Ft.	748	1224	1337	13800	8111	8301	13870	10690	4913	824	279	326

E — Estimated NR — No Record

Total Discharge in Acre-Feet 64420

TABLE 8

DAILY MEAN DISCHARGE
SUGAR CREEK NEAR CALLAHAN

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3	8.3	9.8	8.6	17	13	21	19	17	0.9	0.5	0.6
2	1.2	8.6	15	7.7	16	14	26	15	18	0.8	0.5	0.6
3	1.2	8.3	13	6.9	15	15	30	12	18	0.7	0.5	0.7
4	1.2	9.2	12	6.9	15	15	37	11	17	0.8	0.5	0.7
5	1.2	9.8	9.8	6.4	14	16	40	10	20	0.7	0.5	0.8
6	1.2	9.8	9.2	7.4	14	17	37	8.9	14	0.4	0.5	0.8
7	1.2	9.8	9.6	8.3	14	16	29	12	11	0.5	0.5	0.8
8	1.2	9.8	16	12	13	16	25	14	10	0.5	0.5	0.7
9	1.2	11	11	23	13	16	26	13	9.2	0.5	0.5	0.5
10	1.2	11	11	22	13	15	28	14	8.3	0.7	0.5	0.6
11	1.2	8.0	13	26	12	15	28	17	10	1.2	0.5	0.7
12	1.1	7.1	11	105	12	16	28	29	11	1.2	0.5	0.7
13	1.0	50	9.2	40	12	17	26	38	11	1.2	0.5	0.8
14	1.1	24	8.0	27	12	15	23	32	8.6	0.9	0.5	0.9
15	1.2	13	7.7	23	12	15	20	19	6.6	0.7	0.5	0.9
16	1.2	10	7.1	22	24	15	17	16	6.6	0.7	0.5	0.9
17	1.2	9.8	7.1	22	20	17	17	15	6.2	0.6	0.5	1.0
18	1.5	12	6.9	20	17	16	15	12	8.7	0.6	0.5	1.2
19	2.2	46	6.6	18	16	14	16	8.0	11	0.6	0.6	0.9
20	1.4	27	6.6	16	15	14	17	6.9	12	0.6	0.8	0.9
21	1.3	19	9.8	15	15	15	20	7.4	9.9	0.6	0.7	1.1
22	3.0	15	8.0	14	14	14	24	8.3	7.4	0.7	0.7	1.2
23	6.6	14	7.4	13	14	14	26	11	5.6	0.6	0.6	1.1
24	6.4	12	7.4	29	13	13	32	13	4.8	0.6	0.6	1.0
25	6.1	11	8.0	21	13	15	33	13	4.6	0.6	0.6	0.9
26	6.1	11	9.8	17	12	19	27	12	4.4	0.6	0.6	1.0
27	5.9	10	11	43	12	16	21	8.9	4.0	0.6	0.6	1.0
28	5.9	9.5	8.6	33	12	15	20	8.0	2.7	0.6	0.6	1.1
29	5.9	9.2	8.0	24		15	23	9.2	1.6	0.6	0.6	1.1
30	5.9	9.2	8.9	20		23	24	9.8	0.6	0.5	0.6	1.1
31	6.9		8.6	18		18		12		0.5	0.6	
Mean	2.7	14.1	9.5	21.8	14.3	15.6	25.2	14.0	9.3	0.7	0.6	0.9
Acr-Ft.	169	838	585	1339	795	960	1500	862	555	42	34	52

E — Estimated NR — No Record

Total Discharge in Acre-Feet 7731

TABLE 9

DAILY MEAN DISCHARGE
ETNA CREEK NEAR ETNA

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.3	5.4	15	18	58	47	84	90	51	8.4	1.9	0.9
2	2.2	4.2	14	17	54	55	113	80	51	8.1	2.0	0.8
3	2.2	4.2	14	15	50	58	148	73	48	7.5	2.0	0.8
4	1.9	5.9	13	15	48	56	183	67	47	7.5	2.0	0.8
5	1.9	6.1	12	16	45	56	213	67	47	7.2	2.0	0.8
6	2.2	5.6	11	15	44	59	192	67	44	7.0	1.9	0.9
7	2.3	7.5	12	15	43	58	153	70	41	6.7	1.7	0.8
8	2.5	6.4	19	23	41	57	122	78	37	6.4	1.6	0.8
9	2.5	14	18	78	40	55	111	78	35	6.1	1.4	0.7
10	2.5	14	16	122	40	53	111	78	32	5.4	1.3	0.4
11	2.2	9.0	15	156 E	37	51	120	81	30	5.1	1.3	0.4
12	2.2	7.5	14	480 E	35	54	122	103	29	5.4	1.3	0.3
13	2.2	50	13	145	34	57	113	125	28	5.1	1.3	0.4
14	2.0	39	12	86	35	54	101	118	26	4.9	1.2	1.9
15	2.2	19	12	71	35	51	93	86	24	4.5	1.2	1.9
16	2.0	14	11	66	39	52	87	77	22	4.0	1.2	1.4
17	2.3	13	10	63	37	60	82	74	20	4.0	1.1	1.3
18	4.9	26	10	60	38	60	78	64	20	3.8	1.1	4.7
19	11	117	9.6	54	37	57	77	58	20	3.6	2.2	4.9
20	4.9	60	12	49	36	56	79	55	19 E	3.8	4.0	2.8
21	4.2	39	20	46	34	57	86	54	19 E	3.4	3.4	2.2
22	3.8	29	13	43	32	56	95	55	18 E	2.8	2.3	2.7
23	3.6	25	12	40	31	55	113	60	17 E	2.7	1.9	3.0
24	3.6	22	14	93	30	51	135	63	15 E	2.5	1.6	2.8
25	3.6	19	15	77	30	59	150	60	14 E	2.5	1.3	2.7
26	3.6	18	25	64	30	75	135	59	14 E	2.7	1.3	3.4
27	3.8	15	28	183	32	65	98	51	12 E	2.5	1.2	3.6
28	3.8	14	19	137	37	65	89	48	12 E	2.5	1.2	3.0
29	3.6	13	17	87		66	93	47	10 E	2.5	1.2	2.8
30	3.4	13	19	73		80	101	46	9.0	2.2	1.1	2.7
31	4.2		19	64		72		47		2.0	0.9	
Mean	3.2	21.2	15.0	79.7	38.6	58.3	116	70.3	27.0	4.6	1.6	1.9
Ac-Ft	198	1259	920	4901	2146	3584	6897	4322	1609	283	101	112

E — Estimated NR — No Record

Total Discharge in Acre-Feet 26330

TABLE 10

DAILY MEAN DISCHARGE
MOFFETT CREEK NEAR FORT JONES

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0 E	2.5	3.0	4.4	12	18	13	5.2	1.4	1.2 E	0.5	0.5 E
2	1.2 E	2.2	3.0	4.4 E	11	18	13	4.8	1.4	1.0 E	0.5	0.5 E
3	1.2	2.2	2.7	3.7 E	9.9	18	13	6.1	1.2 E	1.0 E	0.5	0.7 E
4	1.2 E	2.2	2.7	3.7	9.3	18	13	5.6	1.0 E	1.0 E	0.6	0.9 E
5	1.2 E	2.5	2.7	4.0	9.3	17	13	5.6	1.0 E	1.0 E	0.5	0.9 E
6	1.0 E	2.5	2.7	3.7	8.7	16	13	5.6	1.0 E	0.9 E	0.5	0.9 E
7	1.4	2.7	2.7	3.7	8.1	15	12	5.6	1.0 E	0.6 E	0.5	0.9 E
8	1.4 E	3.0	2.7	4.0	8.1	15	8.7	5.2	1.0 E	0.4 E	0.6	1.0
9	1.4 E	4.0	2.7	5.6	7.6	15	9.9	5.6	1.0 E	0.6	0.5	1.0
10	1.5 E	6.1 E	2.7	6.1	8.1	14	9.3	5.2	1.0 E	0.6	0.3	1.0 E
11	1.5 E	5.6	3.0	6.1	7.0	14	9.3	4.4	1.0 E	0.1	0.2	1.0 E
12	1.5 E	5.6 E	3.0	7.0	6.1	13	9.3	4.8	1.2 E	0.9	0.2	1.2 E
13	1.8	4.8 E	3.0	9.3	7.0	13	8.1	3.7	1.2 E	0.9	0.3	1.2 E
14	1.5 E	4.0	3.0	8.1	7.6	13	5.6	3.7	1.2	0.7	0.3	1.4 E
15	1.5 E	4.0	3.0	7.6	9.3	13	4.8	3.7	1.0 E	0.9	0.3	1.8 E
16	1.5 E	3.7	3.0	7.0	13	13	4.8	4.0	0.7 E	0.9	0.3	2.0 E
17	1.4 E	3.7	3.0	6.5	17	13	4.8	3.7	0.6 E	0.9	0.3	1.8 E
18	1.5 E	3.7	3.0	6.5	19	13	4.8	4.0	1.0 E	0.9	0.5	1.5 E
19	1.8 E	3.7	3.3	6.5	17	13	3.7	3.7	1.4	1.0	0.3	1.4
20	2.0 E	3.3	3.3	6.1	19	13	2.7	4.0	1.2	1.2	0.5	1.4
21	2.0	3.3	3.7	6.1	22	13	3.7	3.7	1.0	1.0	0.5	1.4
22	2.2 E	2.7	3.3	6.1	22	13	4.0	3.3	1.0 E	1.2	0.5	1.5 E
23	2.2 E	2.7	3.7	6.1	23	13	3.7	2.7	0.9 E	0.9	0.5	1.5 E
24	2.2	2.7	3.7	7.6	21	12	3.7	2.2	1.4	0.7	0.5	1.5 E
25	2.0 E	2.7	4.4	7.0	20	13	4.8	2.0	1.8 E	0.5	0.5	1.5 E
26	1.8 E	3.0	4.4	6.5	19	13	6.5	2.2	1.8 E	0.6	0.5	1.5 E
27	1.8 E	3.0	5.6	6.7	18	12	4.4	2.0	2.0 E	0.6	0.4	1.4 E
28	1.8 E	3.0	4.8	15	18	12	3.3	2.0	1.8 E	0.9	0.4	1.2 E
29	2.0	3.0	4.8	15		12	4.8	1.8	1.8 E	0.7	0.4	1.4 E
30	2.0 E	3.0	4.8	13		14	5.6	1.8	1.4 E	0.6	0.4 E	1.4 E
31	2.0		4.4	13		13		1.5		0.5	0.4 E	
Mean	1.6	3.4	3.4	7.0	13.5	14.0	7.3	3.9	1.2	0.8	0.4	1.2
Ac-Ft	100	201	210	433	748	863	437	237	72	49	26	74

E — Estimated NR — No Record

Total Discharge in Acre-Feet 3450

TABLE 11

DAILY MEAN DISCHARGE
SHACKLEFORD CREEK NEAR MUGGINSVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.1	8.4	22	31	55	41	74	86	78	22	9.0	15
2	7.3	7.3	21	29	47 E	47	95	76	80	21	8.7	14
3	7.1	7.3	20	28 E	48 E	48	105	72	78	19	8.7	14
4	6.8	11	19	28 E	48 E	47	115	68	78	19	8.4	13
5	6.8	13	17	33 E	41 E	46	131	71	82	18	7.9	12
6	6.6	11	16	33	41 E	47	123	72	76	17	7.6	12
7	6.3	17	20	33	40 E	47	100	78	68	16	7.1	11
8	6.6	12	36	58	40 E	46	88	84	66	15 E	6.8	11
9	6.3	23	29	138	40 E	45	86	82	61	14 E	6.3	9.9
10	6.6	25	28	164	39 E	43	89	81	58	14	6.1	9.6
11	6.3	18	26	207	39 E	42	93	88	58	13	6.1	8.7
12	6.3	15	24	313	38 E	47	93	106	59	12	5.9	8.2
13	6.1	83	21	149	38 E	49	86	126	59	12	5.6	9.0
14	6.1	59	19	101	38 E	45	81	124	53	12	5.4	9.3
15	5.9	38	18	80	38 E	44	77	97	49	11	4.7	6.3
16	5.6	30	17	73	37 E	45	72	85	47	11	4.5	4.1
17	5.9	28	17	70	37 E	51	72	84	45	11	4.1	3.6
18	8.2	46	16	64	37 E	51	68	75	48	11	4.1	14
19	14	180	15	60	34	48	70	71	51	11	5.4	11
20	9.3	91	17	53	31	47	72	69	54	12	6.8	8.2
21	9.0	59	25	51	30	48	81	70	53	12	6.1	6.3
22	8.7	48	20	47	28	46	85	71	47	12	5.2	5.4
23	8.2	40	19	43	27	46	95	77	42	12	4.3	4.7
24	7.9	35	20	78	26	43	104	84	38	12	3.7	4.3
25	7.6	31	21	68	27	48	107	84	36	12	3.6	4.1
26	7.3	27	35	63	27	58	95	81	35	11	3.7	4.3
27	7.1	24	33	141	29	51	82	74	31	11	19	4.5
28	6.8	22	29	118	34	51	79	71	28	11	19	4.1
29	6.8	21	28	85		51	85	71	26	10	18	3.9
30	6.6	20	32	68		59	95	71	24	9.9	17	3.9
31	7.6		32	61		61		73		9.3	16	
Mean	7.3	35.0	23.0	82.8	36.9	48.0	89.9	81.4	53.6	13.3	7.9	8.3
Ac-Ft	446	2083	1412	5094	2051	2951	5351	5002	3189	820	486	495

E — Estimated NR — No Record

Total Discharge in Acre-Feet 29380

TABLE 12

DAILY MEAN DISCHARGE
CANYON CREEK NEAR KELSEY CREEK GUARD STATION

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.9	7.2	20	24	77	51	102	130 E	115	34	9.1	5.6
2	5.9	6.2	20	23	71	54	122	120	122	32	9.5	5.3
3	5.9	6.2	20	20	68	54	135	110 E	117	31	9.1	5.0
4	5.9	11	19	22	65	53	153	105 E	117	29	8.7	5.0
5	5.9	12	18	23	60	52	173	110 E	129	27	8.3	5.0
6	5.6	9.5	17	22	57	52	171	110 E	115	27	8.3	5.0
7	5.3	10	18	24	54	51	153	115 E	99	25	7.9	5.3
8	5.3	9.1	27	40	51	51	143	120 E	91	23	7.2	5.0
9	5.0	18	24	96	51	50	141 E	115 E	88	22	6.9	5.0
10	5.0	22	25	139	51	49	141 E	115 E	78	20	6.5	4.7
11	5.0	15	25	149	50	49	137 E	130 E	81	20	6.5	4.7
12	5.0	11	24	332	47	51	135 E	160 E	85	19	6.9	4.4
13	4.7	58	22	151	46	53	135 E	189 E	84	20	7.2	5.0
14	4.4	52	20	105	47	51	135 E	196	73	19	6.9	6.2
15	4.4	28	19	85	50	51	125 E	151	66	17	6.5	5.9
16	4.2	22	18	77	54	52	120 E	131	64	17	6.5	5.6
17	4.4	19	17	73	54	58	110 E	124	61	16	6.2	5.9
18	7.2	33	16	69	54	58	105 E	108	71	15	6.2	12
19	17	196	16	61	53	56	115 E	99	80	15	7.2	15
20	10	97	17	56	51	56	125 E	94	81	15	9.1	12
21	8.3	57	26	54	48	57	135 E	96	74	14	8.7	11
22	7.6	40	20	51	46	58	140 E	97	65	13	7.9	9.5
23	7.2	34	19	50	45	60	155 E	105	59	13	7.2	8.7
24	6.9	29	20	99	43	58	170 E	119	56	12	6.9	8.3
25	6.9	26	22	80	43	73	185 E	124	51	12	6.5	7.9
26	6.5	23	36	71	43	96	165 E	120	50	11	6.5	7.6
27	6.2	22	35	216	44	78	135 E	108	46	11	6.5	7.6
28	5.9	20	29	161	46	77	110 E	99	41	10	6.5	7.6
29	5.6	18	27	120		78	125 E	99	37	10	6.2	7.2
30	5.6	18	27	97		105	140 E	99	36	9.9	5.9	7.2
31	5.9		25	84		91		104		9.5	5.9	
Mean	6.3	31.0	22.2	86.3	52.5	60.7	138	119	77.7	18.3	7.3	7.0
Ac-Ft	386	1843	1365	5304	2914	3735	8204	7343	4626	1127	447	417

E — Estimated NR — No Record

Total Discharge in Acre-Feet 37710

TABLE 13

DAILY MEAN DISCHARGE
WEAVER CREEK NEAR DOUGLAS CITY

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.3	5.7	6.6	13	88	183	89	51	24	6.2	1.2	0.4
2	3.3	5.7	6.6	12	75	183	89	48	24	6.2	0.8	0.4
3	3.0	5.2	6.6	9.2	68	169	93	45	23	6.2	0.8	0.4
4	3.3	5.2	6.6	9.2	62	142	95	42	21	5.7	1.0	0.3
5	3.3	5.2	6.6	16	57	127	101	42	20	5.7	0.8	0.3
6	3.3	4.8	6.6	42	54	117	101	41	20	5.3	0.8	0.4
7	3.3	4.8	7.1	62	50	108	91	41	18	5.7	0.7	0.3
8	3.3	4.8	7.1	382	46	97	83	42	18	5.7	0.7	0.3
9	3.3	6.1	7.6	452	47	91	81	42	17	5.3	0.7	0.4
10	3.7	7.6	7.6	288	47	85	77	42	17	4.4	0.7	0.4
11	3.7	6.6	7.1	531	42	79	77	44	16	4.1	0.4	0.4
12	3.7	5.7	6.6	1000	38	79	77	45	15	4.1	0.4	0.4
13	3.3	6.1	6.6	223	37	72	76	48	14	3.7	0.3	0.5
14	3.7	12	7.1	122	263	70	74	46	13	3.3	0.4	1.0
15	3.7	8.1	7.1	88	591	67	72	41	13	3.3	0.7	1.2
16	3.7	6.6	6.6	73	874	65	67	38	13	2.7	0.7	1.4
17	4.0	6.1	6.6	67	612	65	67	36	12	2.4	0.5	1.6
18	4.4	7.1	7.1	59	578	63	65	33	11	2.4	0.5	8.2
19	5.2	12	7.1	54	372	63	63	32	11	2.4	0.8	5.3
20	5.7	11	10	47	363	60	63	33	10	2.4	1.0	4.4
21	5.2	9.2	21	42	302	62	63	33	9.4	2.1	1.2	3.3
22	5.2	8.1	12	38	204	65	60	33	8.9	2.1	1.2	2.7
23	4.8	7.6	10	35	152	70	60	33	7.7	2.1	1.0	2.4
24	5.2	7.1	11	56	129	62	65	33	7.2	1.9	1.0	2.4
25	5.2	7.1	16	79	122	63	72	31	7.7	1.9	1.0	2.1
26	5.2	6.6	32	70	124	74	67	30	8.3	1.9	0.8	2.1
27	5.2	6.6	38	278	129	63	58	28	8.3	1.6	0.7	2.7
28	5.2	6.1	24	256	152	62	55	27	7.7	1.6	0.7	2.4
29	4.8	6.1	17	161		62	55	26	6.7	1.4	0.5	2.1
30	4.8	6.6	14	127		157	54	25	6.2	1.2	0.5	2.1
31	4.8		14	103		99		24		1.2	0.4	
Mean	4.2	6.9	11.3	155	203	91.1	73.7	37.3	13.6	3.4	0.7	1.7
Ac-Ft	257	412	694	9510	11260	5601	4384	2291	809	211	45	104

E — Estimated NR — No Record

Total Discharge in Acre-Feet 35580

TABLE 14

DAILY MEAN DISCHARGE
BROWNS CREEK NEAR DOUGLAS CITY

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.1	11	13	17	99	309	106	43	24	11	4.4	4.2
2	9.1	11	13	17	92	331	107	43	24	12	5.5	3.7
3	8.8	12	13	16	83	334	103	42	23	12	3.7	3.4
4	8.8	13	13	15	79	314	102	41	21	12	4.2	3.2
5	8.8	13	12	22	74	280	97	41	22	10	4.2	2.7
6	8.8	12	12	35	70	267	89	39	22	10	4.7	2.3
7	8.5	12	12	63	66	251	82	38	22	11	4.4	2.3
8	8.1	12	12	371	62	222	74	37	21	11	4.2	2.7
9	7.8	13	12	554	63	195	70	36	22	12	3.0	2.5
10	8.1	16	12	390	64	173	67	35	21	12	2.5	1.9
11	8.1	14	12	431	60	155	64	35	20	12	2.7	1.9
12	7.8	13	12	1070	57	148	62	33	20	12	3.2	1.7
13	7.2	14	11	418	55	151	58	33	17	11	2.7	2.3
14	7.2	20	11	262	87	137	55	33	17	10	2.7	2.5
15	8.1	17	11	178	224	124	54	33	16	9.8	3.4	2.7
16	8.5	15	11	134	734	117	52	31	15	8.5	3.7	3.7
17	8.5	14	10	111	540	117	52	32	14	7.8	3.4	4.2
18	8.8	16	10	95	556	117	50	31	15	7.5	3.7	24
19	10	18	10	88	469	110	48	30	15	7.8	3.2	17
20	11	18	12	79	384	103	47	30	15	7.5	4.4	12
21	10	16	22	71	347	102	46	28	15	6.9	6.9	9.4
22	10	16	15	64	304	102	47	29	13	5.8	6.3	6.3
23	10	15	13	59	256	106	46	33	12	5.5	5.2	6.6
24	10	14	13	71	222	95	46	32	10	5.8	3.7	6.3
25	10	14	18	97	202	94	49	29	12	6.0	3.7	7.2
26	11	14	25	103	202	107	49	28	13	5.8	3.7	5.8
27	11	13	44	128	216	100	46	28	13	4.9	3.7	6.6
28	10	13	26	166	256	94	44	27	11	4.4	3.9	6.9
29	10	13	20	148		91	43	26	10	4.7	3.9	6.9
30	10	13	19	125		118	43	26	11	4.2	4.7	6.6
31	11		18	110		110		25		4.2	4.2	
Mean	9.2	14.2	15.1	178	212	164	63.3	33.1	16.9	8.6	4.0	5.7
Ac-Ft.	564	843	926	10930	11750	10060	3765	2037	1004	526	246	336

E — Estimated NR — No Record

Total Discharge in Acre-Feet 42990

TABLE 15

DAILY MEAN DISCHARGE
NORTH FORK TRINITY RIVER AT HELENA

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	40	53	198	598	1020	798	379	266	103	34	26
2	26	34	64	173	528	1090	884	332	284	102	34	24
3	26	32	72	144	475	1090	953	301	266	100	32	23
4	26	34	65	129	443	971	1020	275	268	95	32	23
5	25	38	58	149	420	893	1060	266	282	92	32	23
6	25	36	53	158	398	863	962	266	255	92	30	23
7	25	34	50	250	371	822	794	280	212	86	30	23
8	25	34	58	1610	347	755	679	315	198	81	29	23
9	25	37	58	2580	347	687	640	312	182	78	28	22
10	26	92	57	2390	342	625	622	330	163	77	27	21
11	26	53	62	3630	308	588	625	347	191	78	28	21
12	25	44	67	7960	289	591	640	420	216	80	28	20
13	24	151	58	2270	282	601	584	528	234	84	28	20
14	24	232	53	1270	363	554	535	494	204	81	27	29
15	24	109	48	893	469	512	497	352	177	75	26	34
16	24	74	46	709	1470	503	455	293	175	70	25	31
17	24	61	43	632	1400	519	431	271	164	67	24	30
18	28	68	42	557	1300	509	403	245	220	67	24	117
19	45	318	41	497	1200	481	387	220	257	65	26	128
20	44	273	45	440	1040	457	398	212	266	62	34	101
21	35	180	116	392	918	460	428	224	247	58	40	72
22	34	140	78	355	747	457	455	234	208	54	36	59
23	32	115	67	325	633	466	457	236	184	51	33	51
24	32	97	68	417	577	437	509	249	169	49	30	46
25	32	85	114	522	574	443	528	264	149	47	28	41
26	32	76	163	588	615	601	506	253	149	44	28	39
27	32	69	347	1430	679	535	423	212	136	42	27	39
28	30	62	240	1620	847	512	373	200	120	41	26	38
29	30	58	175	1100		506	398	197	111	39	26	36
30	28	54	182	847		665	406	210	106	37	26	34
31	31		198	690		724		236		34	25	
Mean	28.7	91.0	91.6	1127	642	643	595	289	202	68.7	29.1	40.6
Ac-Ft.	1767	5415	5635	69270	35660	39550	35410	17760	12020	4227	1791	2414

E — Estimated NR — No Record

Total Discharge in Acre-Feet 230900

TABLE 16

DAILY MEAN DISCHARGE
BIG CREEK NEAR HAYFORK

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	1.4	6.1	13	61	120	88	20	8.4	1.1	0.5	0.6
2	0.5	1.5	6.4	13	54	145	91	20	7.6	1.1	0.5	0.5
3	0.7	4.2	6.4	12	47	163	89	20	6.4	1.1	0.5	0.4
4	1.2	5.4	6.4	12	44	149	88	18	5.7	1.2	0.7	0.7
5	0.5	5.4	5.7	46	41	138	84	18	6.1	0.7	0.4	0.7
6	1.2	5.4	6.1	20	39	138	77	18	5.7	1.1	0.8	0.9
7	0.7	5.4	6.4	23	37	134	66	20	5.4	0.7	0.8	0.7
8	1.1	5.4	6.8	167	35	122	60	18	4.2	0.9	0.5	0.4
9	1.2	6.1	6.4	272	35	110	54	14	4.8	0.9	0.5	0.5
10	0.6	10	6.4	143	36	98	51	14	4.8	0.6	0.4	0.5
11	0.7	7.2	6.4	225	32	91	47	13	9.8	0.6	0.4	0.5
12	1.1	6.8	6.1	440	30	93	45	12	8.0	0.7	0.4	0.5
13	0.5	8.0	6.8	149	30	93	43	10	7.6	0.5	0.8	0.7
14	0.8	16	8.4	88	76	86	40	11	8.0	0.3	0.8	1.2
15	0.6	9.3	7.2	65	93	78	37	10	7.6	0.4	0.5	1.4
16	0.5	7.6	7.2	56	179	75	35	11	8.0	0.4	0.6	0.6
17	0.8	6.8	7.2	54	161	78	34	12	7.6	0.4	0.8	1.2
18	0.5	8.4	6.4	50	156	77	30	12	8.4	0.4	0.6	9.8
19	1.1	14	6.1	45	136	71	29	11	8.0	0.6	0.7	9.8
20	1.2	10	7.2	41	116	66	27	11	7.2	0.4	1.4	8.0
21	1.2	8.9	13	37	98	68	27	11	7.6	0.6	1.5	6.1
22	1.1	8.0	8.4	35	84	66	23	11	7.2	0.4	0.9	6.1
23	1.1	7.2	7.6	32	74	71	23	13	6.4	0.6	0.6	5.7
24	1.4	6.8	8.0	41	66	65	22	13	4.2	0.5	0.9	4.5
25	1.5	6.8	11	66	64	69	25	12	2.2	0.8	0.7	5.1
26	0.8	6.4	18	62	66	86	24	12	1.7	0.6	0.9	5.4
27	0.9	6.4	29	115	71	77	23	11	1.5	0.9	0.9	5.4
28	1.5	6.1	19	145	84	74	22	11	1.5	0.8	0.8	5.1
29	1.4	6.4	14	109		72	21	8.9	0.8	0.5	0.5	4.8
30	1.5	6.4	14	86		84	20	8.9	1.1	0.4	0.5	3.6
31	1.7		14	69		84		8.0		0.4	0.7	
Mean	1.0	7.1	9.3	88.1	73.0	94.9	44.8	13.3	5.8	0.7	0.7	3.0
Ac-Ft.	60	424	571	5417	4056	5833	2668	819	344	41	43	181

E — Estimated NR — No Record

Total Discharge in Acre-Feet 20460

TABLE 17

STREAM FLOW MEASUREMENTS AT MISCELLANEOUS SITES
Measurements of streamflow at points other than gaging stations or at points where flow has not been computed are listed in the following table

North Coastal Area

Stream	Tributary	Location	Measurements		
			Date	Gage Height	Discharge (c.f.s.)
Shasta River at Edgewood Bridge (R)	Klamath River	NW¼ Sec. 20, T42N, R5W	11-12-58 12-15-58 1-12-59 1-28-59 3-18-59	1.46 1.39 4.02 2.18 1.76	30.7 28.1 738 112 62.9
Willow Creek Diversion nr Gazelle (S)	Klamath River	NE¼ Sec. 19, T42N. R6W	5-12-59 6- 2-59 7- 9-59 9- 1-59	0.38 0.28 1.23 0.81	2.48 1.86 0.70 0.09
Sugar Creek Diversion nr Callahan (A)	Klamath River	SW¼ Sec. 12, T40N, R9W	10- 2-58 7- 9-59 8- 4-59	4.98 4.74 4.77	2.89 2.14 1.18

(A) Referred to Recorder Station "Sugar Creek near Callahan".
(R) Recorder Installation.
(S) Staff only.

CENTRAL VALLEY AREA

CENTRAL VALLEY AREA

Introduction

The Central Valley Area is the locale of five important hydrologic features that focused early attention on the need for gathering basic data of water occurrence and utilization. These features are:

1. The existence of the two large river systems, namely the Sacramento and San Joaquin Rivers.
2. The occurrence and development of the extensive agricultural lands continguous to these river systems.
3. The complexities of the delta channels at the confluence of these two river systems.
4. The climatic conditions which result in low flows during much of the agricultural season and, in dry years, critical water shortages.
5. The intrusion of saline waters into the delta area during periods of low stream flows.

The development of the Central Valley Project and the accelerated participation of the State in water development construction have increased and broadened the need for, and the value of, data on surface water flow. Most of the tributary streams throughout the entire Sacramento-San Joaquin Valley, including much of the foothill area, are now reported upon, either by the State or the U. S. Geological Survey. This coverage encompasses both measurements of stream flow and measurements of diversions.

Tabular Information

On the following pages are tables of stream flow, stages, diversions and acreages irrigated, summaries of the foregoing, and supplementary data for the 1959 water year.

TABLE 18

MONTHLY PRECIPITATION
OCTOBER 1958 THROUGH SEPTEMBER 1959

In inches

Station		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
Shasta Dam	1958-59	.35	1.25	4.02	25.86	13.19	4.72	4.99	.28	.05	.00	.23	7.87	62.81
	Average	3.87	5.92	9.93	10.42	10.69	6.38	4.22	2.14	1.38	.19	.16	.59	55.90
Redding Fire Station 2	1958-59	.57	.74	2.55	8.89	7.24	2.09	.50	.23	.14	.00	.00	6.48	29.43
	Average	1.96	4.07	6.73	7.41	6.30	4.79	2.76	1.63	1.01	.11	.10	.58	37.45
Red Bluff Airport	1958-59	.46	.13	1.10	5.86	4.08	.41	.39	.28	.03	T	.03	1.03	12.90
	Average	1.04	2.11	3.74	3.78	2.98	2.56	1.37	.87	.43	.03	.06	.44	19.41
Orland	1958-59	.28	.26	1.21	5.92	4.77	.46	.50	.15	.02	.00	.14	1.53	15.24
	Average	.86	1.81	3.60	3.57	3.02	2.40	1.28	.56	.35	.02	.04	.32	17.83
Chico Experiment Station	1958-59	.48	.36	2.03	6.22	5.61	.91	1.94	.63	.00	.00	T	1.86	20.04
	Average	1.20	2.62	4.96	5.02	4.38	3.29	1.91	1.03	.44	.02	.05	.40	25.32
Colusa	1958-59	.19	.02	1.54	3.04	3.31	.44	.19	.00	.00	T	.03	1.72	10.48
	Average	.68	1.64	3.14	3.06	2.73	2.13	1.02	.50	.21	.01	.02	.23	15.37
Marysville	1958-59	.24	.16	1.76	4.55	5.19	.90	.45	.14	.00	.00	T	1.88	15.27
	Average	.94	2.16	3.99	4.05	3.63	2.88	1.42	.76	.24	T	.02	.23	20.32
Woodland	1958-59	.28	T	.98	4.11	4.59	.36	.15	T	.00	T	T	1.70	12.17
	Average	.67	1.50	3.16	3.49	2.93	2.21	1.06	.48	.17	T	.01	.20	15.88
Folsom Dam	1958-59	.29	.33	1.18	5.65	5.43	.99	2.05	.04	.00	.00	T	1.97	17.93
	Average	1.02	2.30	4.24	5.04	4.34	3.57	1.76	.84	.25	.01	.01	.25	23.63
Sacramento City	1958-59	.42	.16	.72	4.62	3.64	.46	.30	T	.00	T	T	1.54	11.86
	Average	.79	1.67	3.48	3.87	3.31	2.59	1.32	.59	.19	.00	.02	.22	18.05
Davis	1958-59	.32	.05	.86	4.65	4.41	.25	.33	.00	.00	.00	T	1.83	12.70
	Average	.65	1.50	3.29	3.67	3.00	2.28	1.14	.49	.16	T	.01	.18	16.37
Rio Vista	1958-59	.10	.15	.70	3.86	3.68	.49	.14	.00	.00	.00	T	2.33	11.45
	Average	.60	1.40	2.97	3.29	2.69	2.19	1.03	.43	.14	.00	.01	.18	14.93
Lodi	1958-59	.09	.12	.75	4.11	4.46	.38	1.13	T	.00	.00	.02	2.38	13.44
	Average	.79	.50	3.14	3.39	2.74	2.43	1.21	.58	.13	.01	T	.19	16.11
Brentwood	1958-59	.05	.10	.58	3.00	3.69	.20	.11	.00	.00	.00	.00	2.17	9.90
	Average	.47	1.10	2.60	2.62	2.08	1.62	.74	.33	.13	.01	.01	.16	11.87
Stockton Fire Station 4	1958-59	.12	.03	.80	3.58	4.12	.32	1.00	T	.00	.00	.01	2.31	12.29
	Average	.60	1.31	2.68	3.04	2.34	2.11	1.00	.53	.12	.01	.01	21	13.96
Tracy Carbona	1958-59	.02	.07	.62	1.14	3.01	.09	.34	.00	.00	.00	.00	2.31	7.60
	Average	.39	.78	1.65	1.81	1.46	1.37	.66	.41	.10	T	T	.13	8.76
Modesto	1958-59	.00	.11	.63	3.03	3.43	.15	.27	.21	.00	T	.05	2.08	9.96
	Average	.50	1.02	2.31	2.29	1.99	1.97	.93	.45	.11	.01	.02	.16	11.76
Merced Fire Station 2	1958-59	.02	.07	.26	2.80	2.06	.28	1.85	.06	.00	.00	.00	1.40	8.80
	Average	.47	1.15	2.03	2.46	2.12	1.99	1.03	.44	.08	.01	.01	.12	11.91
Los Banos	1958-59	.01	.07	.27	1.69	2.63	.10	.38	.00	.00	.00	.05	1.33	6.53
	Average	.38	.83	1.56	1.80	1.43	1.44	.73	.30	.05	.01	.01	.10	8.64
Fresno Airport	1958-59	T	.21	.32	1.47	3.66	.09	.54	.09	.00	.00	.01	.92	7.31
	Average	.51	.80	1.63	1.90	1.61	1.68	.87	.32	.11	.01	.01	.08	9.53

T - Trace
* - Estimated

1958-59 records from U. S. Weather Bureau. Averages based on 50-year period 1905-1955.

TABLE 19

MONTHLY UNIMPAIRED RUNOFF

In per cent of average*

Month		Sacramento and San Joaquin Rivers to Delta (a)	Sacramento River near Red Bluff	Sacramento River at Sacramento (a)	Feather River near Oroville	Yuba River at Smartville	American River at Fair Oaks	Mokelumne River near Mokelumne Hill	Stanislaus River below Melones P. H.	Tuolumne River near La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis (a)
October	Per cent	113	129	117	106	72	64	125	138	40	71	80	76
1958	Average	472	275	418	93	28	22	4	8	15	7	20	50
November	Per cent	64	80	69	72	47	31	35	48	18	33	54	36
1958	Average	852	409	727	164	79	75	17	23	39	18	28	108
December	Per cent	35	48	39	40	19	14	18	17	8	12	26	15
1958	Average	1677	754	1421	329	171	167	33	47	78	40	58	223
January	Per cent	94	117	100	94	84	54	67	53	74	35	50	56
1959	Average	2428	1112	2073	446	239	270	45	68	108	60	74	310
February	Per cent	90	102	92	87	84	66	73	75	88	71	97	84
1959	Average	2817	1262	2372	527	273	310	55	84	135	79	92	390
March	Per cent	67	69	66	69	61	54	71	75	67	57	84	71
1959	Average	3057	1141	2441	620	309	371	79	122	180	99	136	537
April	Per cent	65	63	60	56	58	60	78	72	79	79	83	79
1959	Average	3675	1000	2658	782	402	474	132	206	286	149	244	885
May	Per cent	48	67	49	44	39	38	45	39	52	46	48	47
1959	Average	4007	714	2393	700	441	538	198	294	447	245	430	1416
June	Per cent	42	75	49	44	30	29	25	35	37	28	39	36
1959	Average	2596	456	1331	344	230	301	131	189	372	181	392	1134
July	Per cent	52	89	72	71	44	22	26	33	17	12	25	22
1959	Average	1007	519	604	156	57	72	23	52	115	50	163	380
August	Per cent	77	97	89	82	50	38	25	33	5	0	37	25
1959	Average	497	261	406	103	24	18	4	12	19	10	46	87
September	Per cent	136	130	124	98	95	115	200	260	500	500	210	316
1959	Average	411	51	371	86	21	13	2	5	9	4	20	38
Water Year 1958-59	Per cent		85	70	65	55	47	52	53	55	48	56	54
	Average	[illegible]	[illegible]54	17214	4350	2273	2637	723	1110	1803	942	1703	5558

* Average unimpaired runoff in thousands of acre-feet computed from the 50 year period October 1907 through September 1957.

(a) Figures were computed from summations of unimpaired runoff of foothill stations or major tributaries only and do not include runoff from minor tributaries and from valley floor.

TABLE 20

ANNUAL UNIMPAIRED RUNOFF

In per cent of average*

Water Year	Sacramento and San Joaquin Rivers to Delta (a)	Sacramento River near Red Bluff	Sacramento River at Sacramento (a)	Feather River near Oroville	Yuba River at Smartville	American River at Fair Oaks	Mokelumne River near Mokelumne Hill	Stanislaus River below Melones P. H.	Tuolumne River near La Grange	Merced River at Exchequer	San Joaquin River below Friant	San Joaquin River near Vernalis (a)
Average Annual Runoff*	23494	7954	17214	4350	2273	2637	722	1111	1802	943	1702	5558
1919-20	58	53	53	51	57	56	65	67	75	73	78	74
1920-21	131	145	138	139	140	121	121	114	112	107	94	106
1921-22	113	84	105	117	131	125	128	128	138	152	139	139
1922-23	83	67	77	71	91	104	98	101	99	100	97	99
1923-24	32	41	34	29	27	21	26	23	30	27	26	27
1924-25	95	101	94	72	93	103	116	111	107	97	85	99
1925-26	66	71	69	73	70	52	52	54	62	64	68	63
1926-27	134	138	139	134	156	139	124	123	114	115	118	117
1927-28	93	96	98	97	107	96	89	86	84	78	68	79
1928-29	49	56	49	43	44	43	48	46	55	52	52	52
1929-30	74	77	78	89	80	63	64	66	64	54	52	59
1930-31	34	41	36	33	29	27	29	28	33	28	29	30
1931-32	87	64	76	75	93	99	103	122	117	118	121	119
1932-33	54	58	52	44	47	48	59	54	62	55	65	60
1933-34	48	57	50	47	44	42	41	39	45	38	41	41
1934-35	101	94	97	97	99	98	97	110	117	125	114	116
1935-36	105	89	101	98	114	129	124	119	120	123	110	117
1936-37	88	75	77	72	82	88	96	100	111	129	129	117
1937-38	188	184	184	196	178	171	172	184	190	220	216	202
1938-39	49	55	48	43	40	40	47	47	55	51	55	53
1939-40	127	132	130	129	126	130	119	126	123	116	112	119
1940-41	153	180	158	149	141	119	117	120	139	154	155	143
1941-42	143	142	146	152	150	148	137	134	132	136	133	133
1942-43	125	107	123	129	138	147	139	141	132	137	120	130
1943-44	62	59	60	64	61	56	62	61	73	73	70	69
1944-45	95	83	87	86	93	96	108	115	116	116	125	119
1945-46	102	101	102	95	105	109	103	106	105	100	102	104
1946-47	60	64	60	58	60	54	55	57	61	60	66	61
1947-48	88	96	91	88	89	85	88	80	78	73	71	76
1948-49	69	76	69	60	65	70	71	67	70	67	65	68
1949-50	85	72	83	88	98	101	104	97	86	76	77	84
1950-51	134	114	133	130	156	176	160	152	138	129	109	130
1951-52	168	145	166	182	182	188	183	172	170	166	179	175
1952-53	106	121	117	119	112	101	94	87	85	65	69	7[illegible]
1953-54	94	116	102	96	85	76	73	80	80	71	75	77
1954-55	63	71	64	57	56	60	61	62	63	56	68	63
1955-56	175	166	174	183	175	177	173	169	183	179	179	177
1956-57	82	90	86	83	86	82	83	78	79	69	81	78
1957-58	166	190	173	160	155	155	147	151	147	150	155	150
1958-59	66	85	70	65	55	47	52	53	55	48	56	54

* Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1907 through September 1957.

a Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.

TABLE 21

SUMMARY OF MONTHLY WATER SUPPLY AND UTILIZATION
SACRAMENTO-SAN JOAQUIN DELTA
October 1958 through September 1959

(In thousands of acre-feet)

Item	1958			1959									Water Year Total
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
WATER SUPPLY													
Measured inflow													
Sacramento River at Sacramento	779	779	783	1682	2248	1667	829	702	477	649	735	647	11977
Sacramento Weir Spill to Yolo Bypass	0	0	0	0	2	0	0	0	0	0	0	0	2
Yolo Bypass near Woodland	2	0	1	33	500	25	2	1	1	0	1	2	568
Putah Creek near Davis	0	0	0	2	9	7	0	0	0	0	0	0	18
Consumnes River at McConnell	1	2	2	14	49	22	18	7	0	0	0	0	115
Dry Creek near Galt	0	0	0	4	23	3	1	0	0	0	0	0	31
Mokelumne River at Woodbridge	27	13	10	8	23	31	2	2	2	2	2	6	128
Bear Creek near Lockford	0	0	0	0	3	0	0	0	0	0	0	0	3
Calaveras River near Stockton	0	0	0	0	4	1	0	0	1	0	0	0	6
Stockton Diverting Canal at Stockton	0	0	0	7	31	4	0	0	1	0	0	0	43
Duck Creek near Stockton	0	0	0	0	1	0	0	0	0	0	0	0	1
French Camp Slough near French Camp	3	0	0	1	16	2	2	1	0	1	0	2	28
San Joaquin River near Vernalis	174	216	182	143	182	127	48	49	32	19	25	47	1244
Precipitation (a)	10	4	75	199	197	18	25	35	0	0	0	112	675
Total Water Supply	996	1014	1053	2093	3288	1907	927	797	514	671	763	816	14839
WATER UTILIZATION													
Consumptive Use in Delta Lowlands Area (b)	106	49	36	26	31	46	101	147	166	224	240	179	1351
Exportations													
Delta-Mendota Canal	71	29	6	15	32	121	158	157	203	236	202	109	1339
Contra Costa Canal	6	3	4	3	3	4	5	7	9	10	9	6	69
City of Vallejo	1	0	0	0	0	1	1	1	2	2	2	1	11
Delta Uplands Diversions													
Old River	5	0	1	0	0	10	23	20	24	26	23	9	141
Tom Paine Slough	1	0	1	0	0	2	3	3	4	5	4	2	25
San Joaquin River (Stockton to Vernalis)	3	1	1	1	0	8	16	13	16	19	15	5	98
French Camp Slough below French Camp	0	0	0	0	0	0	0	0	0	1	0	0	1
Calaveras River below Stockton	0	0	0	0	0	0	0	0	0	0	0	0	0
Mokelumne River below Woodbridge	1	0	0	0	0	0	1	2	2	2	2	1	11
Consumnes River below McConnell	0	0	0	0	0	0	1	1	1	1	1	0	5
Sacramento River below Sacramento	0	0	0	0	0	0	0	0	1	1	0	0	2
Yolo Bypass (West Cut)	2	1	2	0	0	0	3	5	7	9	6	3	38
Miscellaneous	8	4	3	0	0	3	13	17	17	20	19	11	115
Total Water Utilization	204	87	54	45	66	195	325	373	452	556	523	326	3206

a Water supply from precipitation has been computed using weighted mean rainfall and the acreage of the Delta Service Area.
b Consumptive use in the Delta Lowlands has been computed using monthly unit consumptive use factors for classified vegetation and evaporation. Acreage data obtained through the Land Use Surveys of 1952 and 1955.
Revised August 1960.

TABLE 22
SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
SACRAMENTO RIVER AND TRIBUTARIES
October 1958 through September 1959

Item	Mileage	Record in Table No	Quantities in Thousands of Acre-feet												
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total
								SACRAMENTO RIVER							
Computed Inflow to Shasta Lake		41	279	260	289	952	840	609	511	369	269	234	212	262	5086
Unmeasured Accretions			+30	+32	+9	+61	+58	+14	+5	-3	+4	+21	+26	+14	+271
Change in Storage			-218	-164	-68	+308	+128	+322	+167	-98	-276	-439	-476	-155	-969
At Keswick	250.5		527	456	366	705	770	301	349	464	549	694	714	431	6326
Near Redding*	240.7	43	462	a	a	a	a	292	330	420	493	627	658	400	3682
Clear Creek near Igo	237.1R		2	3	4	69	71	35	20	10	4	2	1	3	224
Cow Creek near Millville	228.8L		6	9	11	74	96	30	23	14	4	1	1	3	272
At Balls Ferry*	224.5	46	484	a	a	a	a	371	369	464	523	646	675	428	6563
Cottonwood Creek near Cottonwood	222.2R		6	6	7	86	110	57	32	18	7	3	3	5	340
Battle Creek near Cottonwood	221.5L		16	17	18	31	37	24	22	19	15	12	10	11	232
Paynes Creek near Red Bluff	201.5L		0	0	1	9	18	2	1	0	0	0	0	0	31
Unmeasured Accretions			+5	+14	+18	+18	+43	+4	-3	+13	-3	-20	-16	+6	+79
Diversions			27	22	3	0	0	0	26	29	29	31	29	20	216
Near Red Bluff	198.6		535	483	422	992	1145	453	418	509	547	661	684	439	7288
Red Bank Creek near Red Bluff	191.2R		0	0	0	0	0	1	0	0	0	0	0	0	1
Antelope Creek near Red Bluff*	182.6L		3	3	3	13	22	6	5	4	3	2	2	2	68
Mill Creek near Los Molinos*	178.1L		8	8	8	27	29	17	19	16	12	7	6	6	163
Elder Creek at Gerber	178.5R		0	0	0	9	15	5	3	1	0	0	0	0	33
Thomas Creek at Paskenta	173.5R		0	2	2	32	18	29	19	8	2	0	0	1	113
Deer Creek near Vina*	168.5L		8	8	8	28	38	18	15	10	7	6	5	5	156
Unmeasured Accretions			+10	+26	+40	+97	+223	+64	+44	+20	+7	+4	-9	-4	+522
Diversions			0	0	0	0	0	0	0	0	0	1	0	0	1
At Vina Bridge	166.5	52	545	511	464	1130	1401	552	484	538	556	664	675	436	7956
Unmeasured Accretions			-6	-26	-28	-10	+8	-2	+2	+17	+6	-7	+17	+34	+5
Diversions			48	36	24	0	0	18	125	141	143	152	141	70	898
At Hamilton City	149.5	53	491	449	412	1120	1409	532	361	414	419	505	551	400	7063
Big Chico Creek near Chico*	141.5L		2	2	3	13	23	7	4	3	2	1	1	2	63
Big Chico Creek at Chico	141.5L	56	0	0	0	7	12	5	3	2	1	0	0	0	31
Lindo Channel near Chico	141.5L	57	0	1	1	5	13	2	0	0	0	0	0	0	21
Stony Creek at Black Butte Dam Site*	138.0R		5	1	1	23	61	24	9	7	7	7	6	4	156
Stony Creek near Hamilton City	138.0R		0	0	0	21	60	20	4	0	0	0	0	0	104
Unmeasured Accretions			+17	+22	+33	+57	+119	+54	+5	-8	+7	+14	+11	-5	+327
Diversions (b)			0	0	0	3	0	3	6	3	4	5	6	1	31
At Ord Ferry	130.8	58	508	472	446	1207	1613	610	367	405	423	514	556	394	7515
Unmeasured Accretions			-10	-6	-17	-96	-136	+25	+19	+8	-3	-3	+5	+5	-209
Diversions			1	0	0	0	0	0	14	13	14	17	13	4	76
At Butte City	115.8		497	466	429	1111	1477	635	372	400	406	494	548	395	7230
Opposite Moulton Weir*	103.3		523	a	a	a	a	649	361	390	398	479	525	396	3721
Unmeasured Accretions			+4	+1	+13	+21	+100	+18	+10	+4	-5	-9	-13	+5	+149
Moulton Weir	104.0L		0	0	0	0	15	0	0	0	0	0	0	0	15
Colusa Weir	92.4L		0	0	0	32	323	0	0	0	0	0	0	0	355
Diversions			1	0	0	0	0	0	17	25	25	28	26	6	128
At Colusa	89.4		500	467	442	1100	1239	653	365	379	376	457	509	394	6881
Butte Creek near Chico*	84.0L		10	10	9	29	42	30	26	18	11	9	8	8	209
Butte Slough at Outfall Gates	84.0L		9	5	8	10	2	28	12	29	3	2	2	18	128
At Meridian*	79.85	64	513	a	a	a	a	676	363	407	382	459	526	417	3743
R. D. 70 Drainage to Sacramento River	68.8L	65	0	0	0	0	1	1	1	4	2	4	4	3	20
Unmeasured Accretions			+2	+5	+10	-36	+17	+9	+8	+3	+4	0	+4	-2	+24
Tisdale Weir	64.33L	66	0	0	0	59	217	0	0	0	0	0	0	0	276
Diversions			1	1	1	0	0	1	60	76	85	89	78	20	412
Below Wilkins Slough			510	476	459	1015	1042	690	326	339	300	374	441	393	6365
Above R. D. 108 Pumping Plant*	46.4	67	500	a	a	a	a	692	326	NR	NR	NR	NR	NR	1518
R. D. 108 Drainage to Sacramento River	44.0R	68	1	0	1	2	4	2	7	24	17	18	22	14	112
R. D. 787 Drainage to Sacramento River	37.0R	69	0	0	0	0	1	1	1	3	3	3	3	1	16
Colusa Basin Drain at Knights Landing	34.15R	72	23	NR	23	14	7	15	18	69	26	31	57	73	356
R. D. 787 Drainage to Colusa Basin Drain	34.15R	73	0	0	0	0	0	0	1	1	1	1	2	0	6
Unmeasured Accretions			-11	+20	-3	+42	-5	+31	+26	+21	+18	+15	+29	+11	+194
Diversions			0	0	0	0	0	0	26	39	37	41	36	7	186
At Knights Landing	34.0		523	496	480	1073	1049	739	353	418	328	401	518	485	6863
Sacramento Slough at Sacramento River	21.2L	76	14	13	14	NR	NR	NR	19	60	34	32	46	NR	232
Feather River at Nicolaus	20.9L		126	164	182	522	758	587	399	206	42	28	15	57	3086
Coon Creek at Highway 99E*	19.6L	95	2	1	1	6	12	2	1	1	0	0	0	2	29
Auburn Ravine at Lincoln*	19.6L	96	1	1	2	4	7	2	2	2	1	2	3	2	29
R. D. 1001 Drainage to Natomas Cross Canal	19.6L	97	0	0	0	1	2	1	0	0	0	0	0	0	4
Unmeasured Accretions			+19	+4	-13	+10	+781	+166	-8	-18	+2	-15	-21	+33	+940
Fremont Weir	22.58R	74	0	0	0	0	497	0	0	0	0	0	0	0	497
Diversions (c)			0	0	1	0	0	0	9	18	18	21	20	7	94
At Verona	19.6		682	677	662	1606	2093	1493	754	648	388	425	538	568	10534
R. D. 1000 Drain (Pritchard Lake)	19.0L		0	0	0	0	0	0	0	0	0	0	0	0	0
R. D. 1000 Drain (2nd Bannon Slough)	2.1L	100	0	0	0	2	5	2	0	0	0	0	0	0	9
Linda Creek near Roseville	1.3L	101	2	3	3	5	11	3	3	2	1	0	1	2	36
American River at Sacramento	1.1L		96	87	88	61	139	177	67	60	118	237	193	69	1392
Unmeasured Accretions			+5	+16	+34	+10	+4	-5	+26	+19	0	+22	+33	+18	+182
Sacramento Weir Spill to Yolo Bypass	4.2R	99	0	0	0	0	2	0	0	0	0	0	0	0	2
Diversions (d)			6	5	4	2	2	3	21	27	30	35	30	10	175
At Sacramento	0.4	104	779	778	783	1682	2248	1667	829	702	477	649	735	647	11976
Shasta Lake to Sacramento															
Total Unmeasured Accretions			+65	+108	+96	+174	+1212	+378	+134	+76	+37	+21	+66	+115	+2484
Total Diversions			84	64	33	5	2	25	304	371	385	419	379	145	2216

TABLE 22

SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
SACRAMENTO RIVER AND TRIBUTARIES (continued)
October 1958 through September 1959

Item	Mileage	Record in Table No.	Quantities in Thousands of Acre-feet												
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total
								FEATHER RIVER							
Near Oroville	71.0		144	169	174	369	416	401	352	240	137	150	118	85	2755
Unmeasured Accretions			-10	-13	-13	-33	-16	-18	-13	-12	0	-4	-2	-2	-136
Diversions			49	15	12	1	0	16	101	130	125	123	110	52	734
Near Gridley	49.7	89	85	141	149	335	400	367	238	98	12	23	6	31	1885
South Honcut Creek near Bangor	43.7L		0	0	0	2	7	1	0	0	0	0	0	0	10
Unmeasured Accretions			+25	+15	+8	-5	+70	+27	+33	+32	+23	+16	+19	+21	+284
Diversions			0	0	0	0	0	1	1	1	5	6	5	0	19
At Yuba City	28.0R	90	110	156	157	332	477	394	270	129	30	33	20	52	2160
Yuba River near Marysville	27.3L		15	15	21	115	230	159	141	79	16	2	2	10	805
Unmeasured Accretions			-11	-5	+4	+73	+23	+4	-5	0	-2	+2	0	-5	+78
Diversions (e)			0	0	0	0	0	0	0	1	1	1	1	0	4
Below Shanghai Bend	23.0	97	114	166	182	520	730	557	406	207	43	36	21	57	3039
Bear River near Wheatland	12.0L		2	2	2	23	58	36	1	0	0	0	0	0	124
Dry Creek near Wheatland	12.0L		0	0	0	3	14	1	0	0	0	0	0	0	18
Unmeasured Accretions			+10	-3	-2	-24	-44	-6	-3	+7	+5	-2	0	+2	-60
Diversions (f)			0	0	0	0	0	1	5	7	6	6	6	2	33
At Nicolaus	9.3		126	165	182	522	758	587	399	207	42	28	15	57	3088
Oroville to Nicholaus															
Total Unmeasured Accretions			+14	-6	-3	+11	+33	+7	+12	+27	+26	+12	+17	+16	+166
Total Diversions			49	15	12	1	0	18	107	139	137	136	122	54	790
								AMERICAN RIVER							
Computed Inflow to Folsom Reservoir		102	34	46	37	160	214	206	280	202	80	22	11	22	1314
Unmeasured Accretions			-4	+1	+1	+5	+6	-8	-6	-11	-16	-18	-12	-9	-71
Diversions			0	0	0	0	0	0	0	0	0	0	0	0	0
Change in Storage			-69	-46	-56	+98	+72	+14	+203	+126	-63	-247	-207	-62	-237
At Fair Oaks	19.2		99	93	94	67	148	184	71	65	127	251	206	75	1480
Unmeasured Accretions			-2	-6	-6	-6	-9	-7	-3	-4	-7	-12	-12	-5	-79
Diversions			1	0	0	0	0	0	1	1	2	2	1	1	9
At Sacramento	6.1		96	87	88	61	139	177	67	60	118	237	193	69	1392
Folson Reservoir to Sacramento															
Total Unmeasured Accretions			-6	-5	-5	-1	-3	-15	-9	-15	-23	-30	-24	-14	-150
Total Diversions			1	0	0	0	0	0	1	1	2	2	1	1	9
								SUTTER BYPASS							
Butte Slough at Mawson Bridge	29.4	77	6	5	6	83	370	39	5	16	14	14	12	7	578
Wadsworth Canal at Butte House Road	25.7L	78	5	2	1	3	8	5	5	11	5	4	6	13	68
R. D. 1500 Drainage to Sacramento River	0.0R	75	2	1	1	4	12	5	7	33	24	25	35	28	177
Tisdale Weir	18.9R		0	0	0	59	217	0	0	0	0	0	0	0	276
Unmeasured Accretions			+3	+7	+10				+11	+21	+16	+15	+16		
Diversions			2	2	4	0	0	1	9	21	25	26	23	6	119
Sacramento Slough at Sacramento River	-1.0	76	14	13	14	NR	NR	NR	19	60	34	32	46	NR	
								COLUSA BASIN DRAIN							
At Highway 20	37.0	71	23	26	22	38	59	18	24	65	35	44	62	56	472
Unmeasured Accretions			+2	0	+4	-23	-52	-3	+20	+45	+32	+34	+39	+31	+129
Diversions			0	0	0	0	0	0	26	41	41	47	44	14	223
At Knights Landing	0.25L	72	23	NR	23	14	7	15	18	69	26	31	57	73	
Highway 20 to Knights Landing															
Total Unmeasured Accretions			+2	0	+4	-23	-52	-3	+20	+45	+32	+34	+39	+31	+129
Total Diversions			2	4	3	1	0	0	26	41	41	47	44	14	223
								YUBA RIVER							
At Englebright Dam	22.8		28	22	30	95	171	141	139	94	40	27	27	22	836
Deer Creek near Smartville	21.8		1	1	1	9	17	9	2	1	0	0	0	1	42
Dry Creek at Virginia Ranch	11.0		0	0	0	7	19	2	1	1	0	0	0	0	30
Unmeasured Accretions			+4	+2	+2	+7	+23	+13	+22	+13	+5	+3	+2	+5	+101
Diversions			18	10	12	3	0	6	23	30	29	28	27	18	204
Near Marysville	5.2		15	15	21	115	230	159	141	79	16	2	2	10	805

Note: The unmeasured accretions between gaging stations were computed by subtracting the measured inflows to a reach from the sum of the measured diversions and the measured outflows from that reach. Unmeasured stream flow for periods of no record are included in the unmeasured accretions.

* Not included in computations of unmeasured accretions.
a Computed for irrigation season only.
b Includes diversions from Stony Creek by Glenn-Colusa Irrigation District.
c Includes diversions from Feather River below Nicolaus.
d Includes diversions from American River below "H" Street Bridge.
e Includes diversions from Yuba River below Mile 5.2.
f Includes diversions from Bear River below Wheatland.

NR No Record

TABLE 23

SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
SAN JOAQUIN RIVER AND TRIBUTARIES
October 1958 through September 1959

Item	Mileage	Record in Table No.	Quantities in Thousands of Acre-feet												
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total
								SAN JOAQUIN RIVER							
Computed Inflow to Millerton Lake		113	85	78	67	59	102	128	151	159	133	66	44	60	1132
Unmeasured Accretions			-2	-1	0	-1	0	-2	-2	-2	-4	-5	-3	-3	-25
Change in Storage			+10	+55	+64	+55	+53	-58	+56	+68	-68	-146	-92	+14	+11
Madera Canal at Head	269.63R		5	0	0	0	3	31	15	24	44	62	24	0	208
Friant-Kern Canal at Head	269.63L		63	18	0	0	43	149	71	57	143	133	97	35	809
Diversions			0	0	0	0	0	0	0	0	0	0	0	0	0
Below Friant	268.13L		5	4	3	3	3	4	7	8	10	12	12	8	79
Little Dry Creek at Mouth, near Friant	264.0L		0	0	0	0	1	0	0	0	0	0	0	0	1
Unmeasured Accretions			+1	+1	+1	+1	0	+1	0	-1	-2	-2	-2	-1	-3
Diversions			1	0	0	0	0	1	2	2	3	4	3	1	17
Near Biola	236.4R		5	5	4	4	4	4	5	5	5	6	7	6	60
Unmeasured Accretions			-2	-3	-2	-2	-1	-2	-3	-3	-4	-4	-5	-4	-35
Diversions			0	0	0	0	0	0	0	0	0	0	0	0	0
At Whitehouse	219.83R	115	3	2	2	2	3	2	2	2	1	2	2	2	25
Delta-Mendota Canal (a)	209.0L		58	25	2	10	22	97	119	128	153	168	155	91	1028
Unmeasured Accretions			-19	-8	+2	-5	-2	-7	-4	-6	-8	-7	-13	-17	-94
Diversions (b)			37	17	3	6	20	78	98	104	123	135	120	58	799
Near Mendota	206.2L	116	5	2	3	1	3	14	19	20	23	28	24	18	160
Unmeasured Accretions			+2	+2	+1	+2	0	-1	-2	0	+2	0	+1	+1	+8
Diversions			7	4	4	1	3	13	17	20	24	28	25	19	165
Near Dos Palos	186.0L	119	0	0	0	2	0	0	0	0	1	0	0	0	3
Fresno River near Daulton*	184.0R		1	1	1	2	8	6	4	4	1	0	0	0	28
Chowchilla River at Buchanan Dam Site*	151.0R		0	0	0	1	9	2	1	1	0	0	0	0	14
Mariposa Creek below Mariposa Reservoir*			0	0	0	1	4	1	0	0	0	0	0	0	6
Owens Creek below Owens Reservior*			0	0	0	0	1	0	0	0	0	0	0	0	1
Burns Creek below Burns Reservoir*			0	0	0	0	1	0	0	0	0	0	0	0	1
Bear Creek below Bear Reservoir*			0	0	0	1	4	0	0	0	0	0	0	0	5
Salt Slough near Los Banos			3	2	4	6	6	5	5	6	6	5	4	5	57
Unmeasured Accretions			+9	+1	+1	+5	+10	+6	+7	+8	+4	+3	+2	+1	+57
Diversions			1	0	0	0	0	1	0	1	1	2	1	0	7
At Fremont Ford Bridge	129.5L		11	3	5	13	16	10	12	13	10	6	5	6	110
Merced River near Stevinson	123.75R		14	9	11	11	11	13	11	12	7	5	6	7	117
Unmeasured Accretions			+2	+1	+1	+11	+16	+6	+2	+3	0	+1	+1	+1	+45
Diversions (c)			1	0	0	0	0	0	0	1	1	1	1	1	6
Near Newman	123.7		26	13	17	35	43	29	25	27	16	11	11	13	266
Merced River Slough near Newman	122.2R		0	0	0	0	0	0	0	0	0	0	0	0	0
Orestimba Creek near Newman	115.0L		0	0	0	0	9	1	0	0	0	0	0	0	10
Unmeasured Accretions			+26	+27	+16	+13	+15	+18	+18	+16	+19	+17	+18	+16	+219
Diversions			1	0	0	0	0	5	13	11	15	16	15	6	82
At Grayson	96.05	139	51	40	33	48	67	43	30	32	20	12	14	23	413
Tuolumne River at Tuolumne City	91.0R	146	93	162	96	67	99	46	21	21	17	16	16	17	671
Unmeasured Accretions			+7	+8	+6	+1	-28	+8	+8	+5	+7	+10	+7	+3	+42
Diversions (d)			2	0	1	0	0	7	16	14	15	18	14	4	91
At Hetch Hetchy Aqueduct Crossing	82.65	148	149	210	134	116	138	90	43	44	29	20	23	39	1035
Stanislaus River near Mouth	79.7R	151	20	29	49	29	23	38	8	6	4	2	3	9	220
Unmeasured Accretions			+6	-23	-1	-2	+21	+1	+2	+2	+3	+3	+3	0	+15
Diversions (e)			1	0	0	0	0	2	5	3	4	6	4	1	26
Near Vernalis	76.7L		174	216	182	143	182	127	48	49	32	19	25	47	1244
Millerton Lake to Vernalis															
Total Unmeasured Accretions			+30	+5	+25	+23	+31	+28	+26	+22	+17	+16	+9	-3	+229
Total Diversions			119	39	8	7	69	287	237	237	373	405	304	125	2210
								MERCED RIVER							
At Exchequer			28	3	6	3	2	48	71	82	103	113	83	4	546
Unmeasured Accretions			-3	-3	-3	-1	0	-1	-1	-6	-5	-4	-4	-2	-33
Merced Irrigation District Canals	46.0		24	0	0	0	0	43	68	73	94	105	76	1	484
Below Snelling	42.1	136	1	0	3	2	2	4	2	3	4	4	3	1	29
Unmeasured Accretions			+6	+4	+5	+6	+6	+5	+5	+5	+4	+4	+6	+3	+59
Diversions			1	0	0	0	0	1	2	3	5	5	5	1	23
At Cressey	27.6	137	6	4	8	8	8	8	5	5	3	3	4	3	65
Unmeasured Accretions			+9	+6	+3	+3	+3	+5	+8	+9	+8	+7	+6	+6	+73
Diversions			1	1	0	0	0	0	2	2	4	5	4	2	21
Near Stevinson	4.6R		14	9	11	11	11	13	11	12	7	5	6	7	117
Exchequer to Stevinson															
Total Unmeasured Accretions			+12	+7	+5	+8	+9	+9	+12	+8	+7	+7	+8	+7	+99
Total Diversions			26	1	0	0	0	44	72	78	103	115	85	4	528

Note: The unmeasured accretions between gaging stations were computed by subtracting the measured inflows to a reach from the sum of the measured diversions and the measured outflows from that reach. Unmeasured stream flow for periods of no record are included in the unmeasured accretions.

* Not included in computations of unmeasured accretions.
a Diversions from Delta-Mendota Canal into Mendota Pool as computed by U. S. Bureau of Reclamation.
b Includes diversions from Fresno Slough and James Bypass.
c Includes diversions from Merced River below Stevinson.
d Includes diversions from Tuolumne River below Tuolumne City.
e Includes diversions from Stanislaus River below Mile 1.9.

TABLE 23

SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
SAN JOAQUIN RIVER AND TRIBUTARIES (continued)
October 1958 through September 1959

Item	Mileage	Record in Table No.	Quantities in Thousands of Acre-feet												
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total
								TUOLUMNE RIVER							
Above La Grange Dam			137	146	95	44	72	94	116	106	121	114	109	59	1213
Unmeasured Accretions			+3	-1	0	+1	-4	-3	+1	0	+1	0	0	0	-2
Modesto Canal	53.5R		27	0	4	1	1	23	44	42	42	45	36	19	284
Turlock Canal	53.5L		41	0	13	0	2	51	72	64	80	69	73	40	505
At La Grange Bridge	50.5	142	72	145	78	44	65	17	1	0	0	0	0	0	422
Unmeasured Accretions			+1	0	-1	+2	+9	+6	+2	+3	+2	+2	+2	+2	+30
Diversions			0	0	0	0	0	0	0	0	0	0	0	0	0
At Roberts Ferry Bridge	39.9	143	73	145	77	46	74	23	3	3	2	2	2	2	452
Unmeasured Accretions			+1	+2	+8	+5	+2	+4	+4	+4	+4	+4	+4	+4	+46
Diversions			0	0	0	0	0	0	0	0	0	0	0	0	0
At Hickman Bridge	31.7	144	74	147	85	51	76	27	7	7	6	6	6	6	498
Dry Creek near Modesto	16.5R	145	6	2	2	5	11	3	4	4	3	2	3	3	48
Unmeasured Accretions			+10	+9	+8	+6	+9	+11	+6	+6	+6	+6	+3	+5	+85
Diversions (a)			0	0	0	0	0	0	0	0	1	1	1	0	3
At Modesto	16.05L		90	158	95	62	96	41	17	17	14	13	11	14	628
Unmeasured Accretions			+3	+4	+1	+5	+3	+5	+5	+5	+4	+4	+6	+3	+48
Diversions			0	0	0	0	0	0	1	1	1	1	1	0	5
At Tuolumne City	3.35	146	93	162	96	67	99	46	21	21	17	16	16	17	671
Above La Grange Dam to Tuolumne City															
Total Unmeasured Accretions			+18	+14	+16	+19	+19	+23	+18	+18	+17	+16	+15	+14	+207
Total Diversions			68	0	17	1	3	74	117	107	124	116	111	59	797
								STANISLAUS RIVER							
Below Melones Powerhouse			32	39	28	33	34	72	86	89	57	68	71	35	644
Unmeasured Accretions			+15	-15	+13	-7	-15	-5	+1	-3	+18	+5	+8	+1	+16
Oakdale Canal	58.6L		18	0	0	0	0	10	21	27	23	23	22	8	152
South San Joaquin Canal	58.6R		22	0	0	7	0	30	64	57	50	48	55	27	360
Diversions			0	0	0	0	0	0	0	0	0	0	0	0	0
At Orange Blossom Bridge	47.0	149	7	24	41	19	19	27	2	2	2	2	2	1	148
Unmeasured Accretions			+4	+1	+4	+2	+3	+6	+4	+4	+3	+2	+3	+4	+40
Diversions			0	0	0	0	0	0	0	0	0	0	0	0	0
At Riverbank	33.6	150	11	25	45	21	22	33	6	6	5	4	5	5	188
Unmeasured Accretions			+9	+5	+5	+7	+1	+6	+4	+3	+4	+3	+4	+5	+56
Diversions			0	0	0	0	0	0	0	0	1	0	1	0	2
At Ripon	15.7L		20	30	50	28	23	39	10	9	8	7	8	10	242
Unmeasured Accretions			+3	0	-1	+1	0	+3	+5	+4	+3	+4	+3	+3	+28
Diversions			3	1	0	0	0	4	7	7	7	9	8	4	50
Near Mouth	1.9R	151	20	29	49	29	23	38	8	6	4	2	3	9	220
Below Melones Powerhouse to Mouth															
Total Unmeasured Accretions			+31	-9	+21	+3	-11	+10	+14	+8	+28	+14	+18	+13	+140
Total Diversions			43	1	0	7	0	44	92	91	81	80	86	39	564
								MORMON SLOUGH							
At Bellota	0.05	160	0	1	1	8	28	5	0	0	3	0	0	0	46
Unmeasured Accretions			0	-1	-1	-1	+3	-1	0	0	-1	0	0	0	-2
Diversions			0	0	0	0	0	0	0	0	1	0	0	0	1
Stockton Diverting Canal at Stockton	16.2	161	0	0	0	7	31	4	0	0	1	0	0	0	43
								CALAVERAS RIVER							
At Jenny Lind	36.9		0	1	1	7	29	6	0	1	12	0	0	0	57
Unmeasured Accretion			0	0	0	+1	+4	0	0	-1	-2	0	0	0	+2
Morman Slough at Bellota	25.3L		0	1	1	8	28	5	0	0	3	0	0	0	46
Diversions			0	0	0	0	0	0	0	0	1	0	0	0	1
At Bellota	25.25L	158	0	0	0	0	5	1	0	0	6	0	0	0	12
Unmeasured Accretions			0	0	0	0	-1	0	0	0	-2	0	0	0	-3
Diversions			0	0	0	0	0	0	0	0	3	0	0	0	3
Near Stockton	7.9L	159	0	0	0	0	4	1	0	0	1	0	0	0	6
Jenny Lind to Stockton															
Total Unmeasured Accretions			0	0	0	+1	+3	0	0	-1	-4	0	0	0	-1
Total Diversions			0	1	1	8	28	5	0	0	7	0	0	0	50
								MOKULUMNE RIVER							
At Lancha Plana			39	23	15	7	22	37	13	18	23	23	21	18	259
Near Clements	39.35		39	22	16	8	24	38	13	18	21	21	19	16	255
Unmeasured Accretions			0	-1	-1	0	-1	-1	-2	-3	-2	-1	0	0	-12
Diversions			12	8	5	0	0	6	9	13	17	18	17	10	115
At Woodbridge	19.2		27	13	10	8	23	31	2	2	2	2	2	6	128
								COSUMNES RIVER							
At Michigan Bar	34.3		2	3	3	15	37	22	20	9	2	2	1	1	117
Unmeasured Accretions			0	-1	-1	-1	+12	0	-1	0	+1	0	0	0	+9
Diversions			1	0	0	0	0	0	1	2	3	2	1	1	11
At McConnell	10.7		1	2	2	14	49	22	18	7	0	0	0	0	115

Note: The unmeasured accretions between gaging stations were computed by subtracting the measured inflows to a reach from the sum of the measured diversions and the measured outflows from that reach. Unmeasured stream flow for periods of no record are included in the unmeasured accretions.

a Includes diversions from Dry Creek below Modesto.

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE					FROM	TO		
AMERICAN RIVER AT ELVAS																
38 35 26	121 26 58	NE32 9N 5E		25.1	2/20/59		40.5	11/21/50				MAR 28-AUG 52# OCT 52-DATE	1928 1929 1938	1929 1938	6.06 -1.26 0.00	USED USED USED
Station located at Southern Pacific Railroad bridge, 0.3 mi. below U. S. Highway 99E bridge, immediately N of Sacramento. Backwater from Sacramento River at times affects stage-discharge relationship. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
AMERICAN RIVER AT FAIR OAKS																
33 38 08	121 13 36	NE17 9N 7E		4.46	7/30/59	180000	31.85	11/21/50			NOV 04-DATE	NOV 04-DATE	1904 1930 1957	1930 1957	65.79 64.79 77.53	USGS USGS USGS
Station located 2,100 ft. below Nimbus Dam, 2.4 mi. E of Fair Oaks. Prior to Jan. 1, 1958 at site 2.2 mi. downstream. Flow regulated by Folsom Reservoir. Records furn. by U.S.G.S. Drainage area is 1,889 sq. mi. (s)																
AMERICAN RIVER AT GARDEN HIGHWAY																
38 36 09	121 30 30	NE27 9N 4E		25.3	2/20/59		33.8	11/21/50				MAR 36-DATE			0.00	USED
Station located at Jibboom Street Bridge, at confluence with Sacramento River, immediately N of Sacramento. Backwater from Sacramento River at times affects stage-discharge relationship. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
AMERICAN RIVER AT SACRAMENTO																
38 34 05	121 25 20	SW 3 8N 5E		25.19	2/20/59	176000	45.73	11/21/50			JUL 21-OCT 21 MAY 24-DEC 42δ MAY 43-DATE	JUL 21-OCT 21 JUN 24-NOV 24 JUN 25-DATE	1921		0.00 -3.07	USED USGS
Station located at H Street Bridge. Backwater at times affects the stage-discharge relationship. Maximum discharge of record listed is for period 1921, 1929-1932, 1934 to date. Records furn. by U.S.G.S. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
ANTELOPE CREEK NEAR RED BLUFF																
40 12 10	122 07 05			11.32	2/16/59	11500	12.43	2/22/56			OCT 40-DATE	OCT 40-DATE				
Station located 1.8 mi. above diversion dam of Los Molinos Mutual Water Co., 6.5 mi. E of Red Bluff. Tributary to Sacramento River. Small diversion above station during Oct. to June each year. Records furn. by U.S.G.S. Drainage area is 124 sq. mi. (s)																
ASH CREEK AT ADIN																
41 11 54	120 56 30	SW21 39N 9E	790	9.11	2/16/59				25550	80770	37-SEP 57δ SEP 57-DATE	37-SEP 57δ SEP 57-DATE	1957		0.00	LOCAL
Station located 200 ft. above U. S. Highway 299 Bridge. Tributary to Pit River. Stage-discharge relationship at times affected by ice. (f)																
AUBURN RAVINE AT LINCOLN																
38 53 22	121 17 00	SE15 12N 6E	661	6.95	2/11/59				28710	55650	NOV 47-DATE	NOV 47-DATE	 1956	1956	150.74 148.59	USCGS USCGS
Station located 500 ft. below the Lincoln-Newcastle Highway bridge. Tributary to Sacramento River via Natomas Cross Canal. Flow regulated by power plants. Drainage area is 34.6 sq. mi. (f)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M	C.F.S.	GAGE HT	DATE	C.F.S	GAGE HT	DATE					FROM	TO		
BATTLE CREEK NEAR COTTONWOOD																
40 23 50	123 08 05	NW 6 29N 2W		10.92	2/16/59	12800	11.85	2/ 6/42			OCT 40-DATE	OCT 40-DATE	1940		421.47	USGS
Station located 6.3 mi. above mouth, 7.6 mi. E of Cottonwood. Tributary to Sacramento River. From 50 c.f.s. to 90 c.f.s. bypasses station through Coleman Fish Hatchery. Flow regulated by small power plants and reservoirs above station. Records furn. by U.S.G.S. Drainage area is 362 sq. mi. (s)																
BEAR CREEK BELOW BEAR RESERVOIR																
37 21 27	120 14 05	NE 5 7S 16E	1030		2/16/59	4460		12/24/55	5764	42710	JAN 55-DATE	JAN 55-DATE	1955		320.50	USGS
Station located approx. 0.75 mi. below Bear Dam. Prior to Dec. 5, 1956, at site approx. 0.75 mi. upstream at out-rating box of dam. Tributary to San Joaquin River. Flow regulated by Bear Reservoir. Records furn. by U.S.C.B. Drainage area is 72 sq. mi. (f)																
BEAR CREEK NEAR CATHAY																
37 28 38	120 06 43	SW21 5S 17E	1600	7.73	2/16/59	2570E	9.36	4/ 3/58	3207	20740	DEC 57-DATE	DEC 57-DATE	1957		0.00	LOCAL
Station located at highway bridge, 3.7 mi. N of Cathay School. Tributary to San Joaquin River. Drainage area is 24.9 sq. mi. (f)																
BEAR CREEK NEAR RUMSEY																
38 56 51	122 20 44	SW30 13N 4W	5340E	9.42	2/16/59	8100E	12.33	2/24/58	17020	87640	SEP 55-DATE	SEP 55-DATE	1955		0.00	LOCAL
Station located 7.3 mi. NW of Rumsey, 1.4 mi. above mouth. Tributary to Cache Creek. Drainage area is 99.0 sq. mi. (f)																
BEAR RIVER NEAR COLFAX																
39 07 45	120 57 35	NW27 15N 9E	2750	13.88	2/16/59	9620	21.40	11/20/50			NOV 11-JUN 17 NOV 49-SEP 53 JAN 58-DATE	NOV 11-JUN 17 NOV 49-SEP 53 JAN 58-DATE	1958		0.00	LOCAL
Station located 0.2 mi. below Grass Valley-Colfax Highway bridge, 2.0 mi. NW of Colfax, 0.5 mi. below Bear River Canal Diversion. Storage and diversions above station for irrigation and power. Flows listed are not considered to have same degree of accuracy as other records published in this report. Drainage area is 105 sq. mi. Station installed January 14, 1958. (f)																
BEAR RIVER NEAR WHEATLAND																
39 00 01	121 24 20	SW 3 13N 5E		7.70	2/16/59	33000	19.30	12/22/55			OCT 28-DATE	OCT 28-DATE	1928 1943	1943	81.50 78.92	USGS USGS
Station located on U. S. Highway 99E bridge, 1 mi. SE of Wheatland. Tributary to Feather River. Medium and low flows affected by upstream regulation. Records furn. by U.S.G.S. Drainage area is 295 sq. mi. (s)																
BIG CHICO CREEK AT CHICO																
39 43 38	121 51 43	SE28 22N 1E	1610	10.11	2/16/59				30690	101300	JAN 56-DATE	JAN 56-DATE	1956		167.88	USED
Station located 50 ft. above Rose Avenue Highway Bridge, immediately W of Chico. Tributary to Sacramento River. For total flow of Big Chico Creek near Mouth, combine with flow of Lindo Channel near Chico. (f)																

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT			PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS.	GAGE HT	DATE	CFS	GAGE HT	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
BIG CHICO CREEK NEAR CHICO																
39 46 35	121 45 10			10.61	2/16/59	8260	16.6	12/10/37			MAY 30-DATE	MAY 30-DATE				
Station located 1.8 mi. above golf clubhouse in Bidwell Park, 7 mi. NE of Chico. Tributary to Sacramento River. Records furn. by U.S.G.S. Drainage area is 67.9 sq. mi. (s)																
BIG CREEK DIVERSION NEAR FISHCAMP																
37 28 10	119 36 52	NE25 5S 21E					3.50	2/16/59			DEC 58-DATE	DEC 58-DATE	1958		0.57	LOCAL
Station located 195 ft. above road bridge, 1.4 mi. SE of Fishcamp. This is regulated diversion from Big Creek to Lewis Fork, Fresno River. Stage-discharge relationship at times affected by ice. Station installed December 18, 1958 (f)																
BIG SAGE RESERVOIR NEAR ALTURAS																
41 34 42	120 37 33	SE 7 43N 12E		21.0	3/ 9/59		24.4	2/27/58				OCT 57-DATE	1957		0.00	LOCAL
Station located at reservoir control structure, 150 ft. N of Big Sage Dam, 8 mi. NW of Alturas. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
BURKHARDT DRAIN NEAR GRAYSON																
37 3[illegible] 53	121 1[illegible] 20	SW 4 4S 7E				105E	2.00	7/ 4/59			APR 57-DATE ♂	APR 57-DATE ♂			[illegible].00	LOCAL
Station located 1.2 mi. E of El Solyo Ranch, 2.6 mi. N of Grayson. This includes flow of Hospital Creek and drainage returned to San Joaquin River. Station installed March 24, 1959. (f)																
BURNEY CREEK NEAR BURNEY																
4[illegible] 18	121 40 58	S419 35N 3E	592E	9.75	1/12/59	592E	9.75	1/12/59	28630		APR 58-DATE	APR 58-DATE	1958		0.00	LOCAL
Station located 3[illegible] ft. above county road bridge, 0.8 mi. SW of Burney. Tributary to Pit River. Stage-discharge relationship at times affected by ice. Drainage area is 87.7 sq. mi. (f)																
BURNS CREEK BELOW BURNS RESERVOIR																
37 [illegible] 27	1[illegible] 16 35	NE36 [illegible] 15E	270		2/17/59	2590		12/24/55	753	44510	APR 50-DATE	APR 50-DATE	1950		260.60	USGS
Station located [illegible] mi. below Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir. Records furn. by U.S.C.E. Drainage area is 73.8 sq. mi. (f)																
BURNS CREEK AT HORNITOS																
37 29 4[illegible]	120 14 17	E17 5[illegible] 16E				309	4.51	2/16/59			DEC 58-DATE	DEC 58-DATE	1958		0.00	LOCAL
Station located 13[illegible] ft. S of [illegible]ton-Mariposa Road, 0.2 mi. SW of Hornitos. Drainage area is 26.7 sq. mi. Recorder installed December 1[illegible], 1958. (f)																
BUTTE CREEK NEAR ADIN																
41 07 12	120 5[illegible] 36	NE24 38N 9E	24	4.00	2/16/59	117E	5.55	2/24/58	500	3670	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located 0.4 mi. SE of Adin. Tributary to Pit River via Ash Creek. Stage-discharge relationship at times affected by ice. (f)																

E - Estimated
(s) - Record of stage published
♂ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT			PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M.	C F S.	GAGE HT.	DATE	C F S	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
BUTTE CREEK NEAR CHICO																
39 43 34	121 42 28	NW36 22N 2E		6.77	2/16/59	18700	13.35	12/22/55			NOV 30-DATE	NOV 30-DATE				
Station located 0.7 mi. below Little Butte Creek, 7.5 mi. E of Chico. Flow slightly regulated by storage in Magalia Reservoir. Considerable importations above station from West Branch Feather River via power plants. Records furn. by U.S.G.S. Drainage area is 148 sq. mi. (s)																
BUTTE CREEK NEAR DURHAM																
39 40 37	121 46 38	NW17 21N 2E				5100	8.72	2/16/59			JAN 58-DATE	JAN 58-DATE	1958		181.01	USED
Station located 0.1 mi. below Ord-Chico Highway bridge, 2.6 mi. NE of Durham. Tributary to Butte Slough. Station installed December 11, 1958. (f)																
BUTTE SLOUGH AT MAWSON BRIDGE																
39 11 14	121 54 28	SW31 16N 1E	29400	57.34	2/19/59		68.9	3/ 1/40	577800	6316000	JAN 39-DATE	NOV 34-MAY 37# OCT 37-DATE	1934		0.00	USED
Formerly published as Butte Slough to Sutter Bypass. Station located at West Butte-Meridian Highway bridge, 3.0 mi. N of Meridian. Tributary to Sutter Bypass. Flow affected by gate operation. Flow during summer months is made up almost entirely of return water from lands irrigated by Feather River diversions. During flood periods, Sacramento River water enters Butte Basin above Butte City by bank spill and spill over Moulton and Colusa Weirs. (fs)																
BUTTE SLOUGH AT OUTFALL GATES																
39 11 44	121 56 04	NE35 16N 1W							127800	86640	JUN 24-OCT 38δ JAN 39-DATE	JUN 24-DATE			0.00	USED
Formerly published as Butte Slough to Sacramento River. Station located 4.0 mi. E of Colusa, 3.7 mi. N of Meridian. Tributary to Sacramento River. Flow regulated by gravity culverts. These flows, together with flow of Butte Slough at Mawson Bridge and Wadsworth Canal at Butte House Road are, during the summer months, made up almost entirely of return water from lands irrigated by Feather River diversions. (fs)																
CACHE CREEK AT YOLO																
38 43 30	121 48 25			22.32	2/17/59	41400	33.11	2/25/58			JAN 03-DATE	JAN 03-DATE	1903	1930	61.1	USED
															58.24	USGS
													1930	1944	59.1	USED
															56.27	USGS
													1944		55.1	USED
															52.27	USGS
Station located 800 ft. above U. S. Highway 99W bridge, 0.5 mi. S of Yolo. Tributary to Yolo Bypass. Flow regulated by Clear Lake. Records furn. by U.S.G.S. Drainage area is 1,137 sq. mi. (s)																
CALAVERAS RIVER AT BELLOTA																
38 03 13	121 00 46	NW 5 2N 9E	263	7.45	2/12/59				12340		NOV 48-DATE	NOV 48-DATE			0.00	LOCAL
Station located 100 ft. above State Highway 8 bridge, 100 ft. below head gates. Prior to Oct. 20, 1958, station located 140 ft. above State Highway 8 bridge, 60 ft. below head gates. Flow regulated by head gates operated by Stockton Irrigation District (f)																
CALAVERAS RIVER AT JENNY LIND																
38 05 20	120 51 53	NW27 3N 10E		6.75	2/11/59	50000	21.0	1/31/11			JAN 07-DATE	JAN 07-DATE				
Station located 70 ft. below Milton Road bridge, 0.2 mi. S. of Jenny Lind. Flow affected by upstream regulation. Records furn. by U.S.G.S. Drainage area is 395 sq. mi. (s)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE	CFS	GAGE HT	DATE					FROM	TO		
CALAVERAS RIVER NEAR STOCKTON																
38 00 45	121 14 23	NW20 2N 7E	238	4.11	2/22/59	632	9.20	4/ 4/58	5357	34150	DEC 48-DATE	DEC 48-DATE	1955		0.00	LOCAL
Station located 0.5 mi. above U. S. Highway 99 bridge, 4 mi. NE of Stockton. Prior to May 18, 1959, station located 0.9 mi. below Solari Road bridge, 0.6 mi. upstream from present location. Summer flows regulated by removable diversion dam 40 ft. above station operated by Stockton Irrigation District (f)																
CLEAR CREEK NEAR IGO																
40 30 50	122 31 20	NE27 31N 6W		9.56	2/16/59	24500	13.75	12/21/55			OCT 40-DATE	OCT 40-DATE				
Station located at highway bridge on Redding-Igo road, 1.0 mi. NE of Igo, 8 mi. SW of Redding. Tributary to Sacramento River. Records furn. by U.S.G.S. Drainage area is 228 sq. mi. (s)																
CLOVER CREEK NEAR UPPER LAKE																
39 10 23	122 52 42	SE 5 15N 9W									OCT 48-SEP 53 MAR 58-DATE	OCT 48-DATE	1948			LOCAL
Station located 100 ft. below bridge, 1.7 mi. NE of Upper Lake. Tributary to Clear Lake. (f)																
COLUSA BASIN DRAIN NEAR COLLEGE CITY																
39 00 38	121 58 38	NE 4 13N 1W		33.0	2/18/59						OCT 44-APR 52 MAR 54-FEB 58	OCT 44-APR 52 MAR 54-FEB 58 JUN 58-DATE	1957	1957	-0.34 0.00	USED USED
Station located 0.1 mi. below highway bridge, 1.7 mi. E of College City. Flow is drainage chiefly from lands irrigated by Glenn-Colusa, Provident, Princeton-Codora-Glenn, Compton-Delevan, Maxwell, and Jacinto Irrigation Districts. Backwater from Knights Landing Outfall Gates at times affects stage-discharge relationship. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
COLUSA BASIN DRAIN AT HIGHWAY 20																
39 11 44	122 03 34	NE34 16N 2W	3650	49.46	2/20/59	25400E	51.93	2/21/58	472000	1017000	JUN 24-DEC 40δ MAY 41-DATE	JUN 24-DEC 40δ MAY 41-DATE	1957	1957	37.09 0.00	USED USED
Station located at State Highway 20 bridge, 3.0 mi. W of Colusa. Flow is return water in main drain of Reclamation District 2047, chiefly drainage from irrigation districts. (fs)																
COLUSA BASIN DRAIN AT KNIGHTS LANDING																
38 47 58	121 43 27	SW14 11N 2E		29.61	2/20/59		36.8	2/10/42			MAY 24-OCT 39δ JAN 40-DATE	MAY 24-OCT 39δ JAN 40-DATE	1924		0.00	USED
Station located at Knights Landing Outfall Gates, 0.3 mi. W of Knights Landing. Tributary to Sacramento River. Flow regulated by outfall gates. An undetermined amount of flow is diverted to Yolo Bypass via Ridge Cut at Knights Landing. For total flow to Sacramento, combine with flows of Reclamation District 787 to Colusa Basin Drain. Maximum gage height listed does not indicate maximum discharge. (fs)																
COLUSA WEIR SPILL TO BUTTE BASIN																
39 14 12	121 59 38	SE17 16N 1W	46100	66.65	2/18/59		70.6	3/ 1/40	355000	4344000	JAN 40-DATE	JAN 35-DATE	1935		0.00	USED
Station located at N end of weir, 2.0 mi. N of Colusa. Elev. of weir crest is 61.80 ft. U.S.E.D. datum; length of crest is 1,650 ft. (f)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M.	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE	CFS	GAGE HT	DATE					FROM	TO		
CONTRA COSTA CANAL NEAR OAKLEY																
37 59 45	121 42 00	NE25 [illegible]N [illegible]E							68620	50470	FEB 50-DATE	FEB 50-DEC 52	1950	1952	121.72	USGS
Station located at Pumping Plant No. 1, 0.7 mi. E of Oakley, 2.6 mi. NW of Knightsen. Water is diverted from Sacramento-San Joaquin Delta by way of Old River, Rock Slough, and a dredged channel. A series of 4 pumping plants lifts the water about 115 ft. into canal. Records furn. by U.S.B.R. (f)																
COON CREEK AT HIGHWAY 99E																
38 56 15	121 20 59	NW31 13N 6E	1660	50.62	2/11/59	6180E	54.88	12/23/55	28830	81010	NOV 47-DATE	NOV 47-DATE				
Station located 20 ft. below U. S. Highway 99E bridge, 3.2 mi. SE of Sheridan. Tributary to Sacramento River via Natomas Cross Canal. Drainage area is 82.5 sq. mi. (f)																
COSUMNES RIVER AT McCONNELL																
38 21 2[illegible]	121 20 34	20 6N 6E		37.93	2/17/59	54000	46.26	12/23/55			OCT 41-DATE	JAN 31-MAY 40# DEC 41-DATE	1931		.00	USED
Station located on U. S. Highway 99 bridge, 0.2 mi. S of McConnell, 7.0 mi. N of Galt. Maximum discharge of record listed is for period 1943 to date. Records furnished by U.S.G.S. Drainage area is 730 sq. mi. (s)																
COSUMNES RIVER AT MICHIGAN BAR																
38 30 00	121 02 45	SE36 8N 8E		6.37	2/16/59	42000	14.59	12/23/55			OCT 07-DATE	OCT 07-DATE	1907		168.09	USGS
Station located on highway bridge at Michigan Bar, 5.5 mi. SW of Latrobe. Records furn. by U.S.G.S. Drainage area is 537 sq. mi. (s)																
COTTONWOOD CREEK NEAR COTTONWOOD																
40 23 10	122 14 1[illegible]	NE 7 [illegible]N 3E		11.40	2/16/59	52300	15.4	3/ 1/41			OCT 4[illegible]-DATE	SEP 40-DATE				
Station located 2 mi. E of Cottonwood, 2.4 mi. above mouth. Tributary to Sacramento River. At times during irrigation season, Cottonwood Creek receives water above station from Sacramento River by way of Anderson-Cottonwood Canal. Records furn. by U.S.G.S. Drainage area is 945 sq. mi. (s)																
CROSS CREEK BELOW LAKELAND CANAL 2																
36 12 42	119 34 05	NE10 20S 22E							[illegible]	526[illegible]	21-DATE					
Station located below Cross Creek weir, 4 mi. E of Guernsey. Tributary to Tulare Lake Area. At times the flow is a combination of water from Kaweah River, Kings River, and Cottonwood Creek. Records furn. by Corcoran Irrigation District. (f)																
DEER CREEK NEAR NEVADA CITY																
39 16 05	120 59 53	NW 8 16N 9E	180	2.69	3/30/59	812	4.49	4/ 2/58	14370	62990	JUN 57-DATE	JUN 57-DATE	1957		0.00	LOCAL
Station located 1.[illegible] mi. NE of Nevada City. Tributary to Yuba River. Flow regulated by Deer Creek Reservoir and Scotts Flat Reservoir. Drainage area is 26.0 sq. mi. (f)																
DEER CREEK NEAR VINA																
40 00 50	121 56 50	NW23 29N 1W		9.97	2/16/59	23800	19.2	12/10/37			OCT 11-DEC 15 MAR 20-DEC 37 JAN 39-DATE	OCT 11-DEC 15 MAR 20-DEC 37 JAN 39-DATE				
Station located [illegible].5 mi. above concrete diversion dam, 7.9 mi. NE of Vina. Tributary to Sacramento River. Records furn. by U.S.G.S. Drainage area is 200 sq. mi. (s)																

E - Estimated
(s) - Record of stage published
B - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT	DATE	1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF DATUM
DEL PUERTO CREEK NEAR GRAYSON																
37 32 23	121 07 16	SE31 4S 8E									APR 57-DATE ♂	APR 57-DATE ♂	1958		0.00	LOCAL
Station located at end of Cottonwood St., 3.6 mi. SE of Grayson, 0.5 mi. above mouth. This is drainage returned to San Joaquin River. Recorder installed March 24, 1959. (f)																
DELTA CROSS CHANNEL AT WALNUT GROVE																
38 14 48	121 30 25	NE35 5N 4E		6.5	2/21/59							SEP 52-DATE	1952 1957 1958	1957 1958	-1.37 -1.54 -1.63	USCGS USCGS USCGS
Station located approx. 1,000 ft. below head, just below So. Pacific R. R. bridge. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
DELTA-MENDOTA CANAL NEAR TRACY																
37 47 45	121 35 05	SW31 1S 4E							1341000	673400	JUN 51-DATE		1951		0.00	USGS
Station located at Tracy Pumping Plant at intake to canal, 6 mi. SE of Byron, 10 mi. NW of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 ft. into canal. Records furn. by U.S.B.R. (f)																
DRAIN AT HEAD OF FIREBAUGH WASTEWAY NEAR FIREBAUGH																
36 49 50	120 26 16	NW 3 13S 14E	19	3.01	3/19/59				2461		MAR 58-DATE	MAR 58-DATE	1958		0.70	LOCAL
Station located 0.3 mi. E of Highway 33 bridge, SE 0.1mi. N of head works of Firebaugh Wasteway, 1.8 mi. SE of Firebaugh. This is drainage returned to San Joaquin River. Recorder installed March 10, 1958. (f)																
DRY CREEK NEAR MODESTO																
37 39 26	120 55 19	SE24 3S 9E	1780	77.88	2/17/59	7710	88.04	12/23/55	48270	146400	MAR 41-DATE	MAR 41-DATE	1941		0.00	USGS
Station located 0.1 mi. below Claus Road bridge, 4 mi. E of Modesto. Tributary to Tuolumne River. Prior to Mar. 1941, records available for a site 2.5 mi. downstream. (fs)																
DRY CREEK NEAR WHEATLAND																
39 01 35	121 26 10			8.07	2/17/59	8790	13.45	12/23/55			OCT 46-DATE	OCT 46-DATE	1946		62.83	USGS
Station located 2,300 ft. above U. S. Highway 99E bridge, 1.3 mi. NW of Wheatland. Tributary to Bear River. Portion of flow from drainage area may overflow or percolate into Best Slough above station. Flow in Oct. and Sept. mostly return flow from irrigated areas. Records furn. by U.S.G.S. Drainage area is 99.5 sq. mi. (s)																
DRY FORK SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD																
40 19 00	122 27 37	SW32 29N 5W	6910E	8.85	2/16/59	14100E	10.19	4/ 5/58	27850		MAR 58-DATE	MAR 58-DATE	1958		0.00	LOCAL
Station located at highway bridge, 10.7 mi. SW of Cottonwood. Tributary to Sacramento River via So. Fork Cottonwood and Cottonwood Creek. Drainage area is 151 sq. mi. (f)																

E - Estimated
(s) - Record of stage published
♂ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
DUCK CREEK NEAR STOCKTON																
37 55 27	121 14 55	NE19 1N 7E	152	9.39	2/22/59	400	5.75	12/24/55	2554	7392	JAN 50-APR 50 OCT 50-APR 51 OCT 51-DATE	JAN 50-APR 50 OCT 50-APR 51 OCT 51-DATE	1957		0.00	LOCAL
Station located at Laurel Ave. 1.0 mi. W of U. S. Highway 99, immediately S of Stockton. Tributary to San Joaquin River via Franch Camp Slough. During high flow, water from Duck Creek enters Mormon Slough approx. 2 mi. E of the head of Stockton Diverting Canal. Flow regulated by gravity culverts which divert to Littlejohns Creek. Discharge tabulated does not include this overflow. (f)																
DUCK CREEK DIVERSION NEAR FARMINGTON																
37 56 18	120 59 21	NE16 1N 9E	1450		2/11/59	3690	7.65	4/ 2/58	1947	9734	SEP 51-DATE	SEP 51-DATE	1951		105.0	USGS
Station located 1.0 mi. NE of Farmington. Flows are diversions from Duck Creek to Littlejohns Creek. Records furn. by U.S.C.E. Drainage area is 28 sq. mi. (f)																
EAST FORK CHOWCHILLA RIVER NEAR AHWAHNEE																
37 20 09	119 48 59	SE 7 7S 20E	803	6.55	2/16/59	3290E	9.88	4/ 3/58	6984	42410	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located 1.1 mi. above mouth, 5.5 mi. W. of Ahwahnee. (f)																
ELK BAYOU NEAR TULARE																
36 08 37	119 19 48	SW36 20S 24E	10E	1.84	2/18/59				9		OCT 58-DATE	MAR 57-DATE	1959		0.00	LOCAL
Station located 700 ft. W of U. S. Highway 99, 4.5 mi. S of Tulare. Prior to Jan. 8, 1959 station located 0.8 mi. downstream above Southern Pacific Railroad Bridge, 5.1 mi. S of Tulare. Tributary to Tule River. Prior records, 1942 to July 1953, available at a site 1 mi. E of Elk Bayou Ave. 3.6 mi. below Old Highway 99 bridge. Recorder installed March 6, 1957. (f)																
FALL RIVER NEAR DANA																
41 06 19	121 33 00	NE30 38N 4E	881	6.42	1/13/59	2190E	10.25	2/25/58	337500	419200	NOV 57-DATE	NOV 57-DATE	1957		0 00	LOCAL
Station located at private bridge, 0.7 mi. SE of Dana. (f)																
FEATHER RIVER NEAR GRIDLEY																
39 22 01	121 38 43	SW33 18N 3E	27900	87.31	2/17/59		102.25	12/23/55	1885000	5685000	JAN 44-DATE	MAR 29-MAY 37# OCT 37-APR 39 NOV 39-JUL 40 OCT 40-Jul 43 OCT 43-DATE	1929		0.00	USED
Station located at highway bridge, 2.7 mi. E of Gridley (fs)																
FEATHER RIVER AT NICOLAUS																
38 54 00	121 35 00	SE12 12N 3E		41.19	2/19/59	357000	51.60	12/23/55			JUN 21-OCT 38δ JAN 39-DATE	20-DATE	1920		0.00	USED
Station located at new Nicolaus Highway bridge, 2.9 mi. below Bear River, 0.5 mi. SW of Nicolaus. Backwater at times affects the stage-discharge relationship. Flow partly regulated by reservoirs and power plants. Maximum discharge of record is for period 1943 to date. Records furn. by U.S.G.S. Drainage area is approx. 5920 sq. mi. (s)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T.B.R. M.D.B.&M	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS.	GAGE HT	DATE	CFS	GAGE HT	DATE					FROM	TO		
FEATHER RIVER NEAR OROVILLE																
39.32 00	121 28 35	NE 2 19N 4E		37.60	1/12/59	230000		3/19/07			OCT 01-DATE	OCT 01-DATE	1912 1934	1934	139.53 182.02	USGS USGS
Station located 75 ft. above Feather River Highway bridge, 4 mi. NE of Oroville. Records prior to Oct. 1934 at a site 5.2 mi. downstream. Flow partly regulated by reservoirs and power plants. Records furn. by U.S.G.S. Drainage area is 3,611 sq. mi. (s)																
FEATHER RIVER BELOW SHANGHAI BEND																
39 04 44	121 36 08	NE11 14N 3E	44200	52.81	2/19/59		76.8	12/24/55	3038000	9103000	JUN 44-OCT 45ᵘ JAN 46-DATE	NOV 26-MAY 37# OCT 37-MAY 39 NOV 39-JUL 41 NOV 41-JUL 43# OCT 43-DATE			0.00	USED
Station located approx. 4 mi. S of Yuba City. Flow partly regulated by reservoirs and power plants. High flows rated by means of simultaneous current meter measurements of Yuba River near Marysville and Feather River at Yuba City. Flow listed is not considered to have the same degree of accuracy as other records published in this report. (fs)																
FEATHER RIVER AT YUBA CITY																
39 08 20	121 36 17	SE23 15N 3E	34000	57.31	2/18/59		82.42	12/24/55	2160000	6540000	JUL 44-OCT 45ᵘ JAN 46-DATE	NOV 43-DATE	1943		0.00	USED
Station located at Yuba City-Marysville "5th Street" Highway bridge (Sacramento No. Railroad bridge). Backwater from Yuba River at times affects stage-discharge relationship. (fs)																
FOLSOM RESERVOIR																
38 42 29	121 09 22	NE24 10N 7E							1315000	4103000	FEB55-DATE	FEB 55-DATE	1955		0.00	USED
Station located 0.7 mi. below So. Fork American River, 2.3 mi. NE of Folsom. Usable capacity, 1,000,000 ac.-ft. between elevations 205.5 and 466.0 ft. above mean sea level, practically all of which is available for release. Spillway design flood pool elevation, 475.4 ft. (capacity, 1,120,000 ac.-ft.) Figures given herein for daily content represent usable content. Inflow to Folsom Reservoir takes into account change in storage, release, spill, precipitation, and evaporation, and is representative of the natural flow which would pass the dam site if the dam had not been constructed. Figures shown under total discharge are computed inflow to the reservoir. Period of record for computed inflow is shown under period of record for discharge. Period of record for daily content is shown under period of record for stage. Records furn. by U.S.B.R. Drainage area is 1,875 sq. mi.																
FREMONT WEIR SPILL TO YOLO BYPASS																
			66700	35.92	2/19/59	294000	39.16	12/23/55	496600	8544000	JAN 35-DATE					
See Sacramento River at Fremont Weir, East End and Sacramento River at Fremont Weir, West End, for stage records and locations. Elev. of weir crest is 33.50 ft. U.S.E.D. datum; length of crest is 9,120 ft. (f)																
FRENCH CAMP SLOUCH NEAR FRENCH CAMP																
37 52 52	121 14 53	NE 6 1S 7E	1390	7.83	2/22/59	3390	6.31	12/ 9/50	28920	172900	JAN 50-MAY 50 OCT 50-DATE	JAN 50-MAY 50 OCT 50-DATE	1950 1955	1955	0.00 4.00	LOCAL LOCAL
Station located at Durham Ferry Road bridge, 1.5 mi. E of French Camp. Supplementary water stage recorder located 0.5 mi. downstream. Tributary to San Joaquin River. Backwater from temporary diversion dam at times affects stage-discharge relationship. During those periods, supplementary recorder used for computations. (f)																

E - Estimated
(s) - Record of stage puclished

ᵘ - Irrigation season only

Flood season only
(f) - Record of flow puclished

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR IN AC-FT	1958 CALENDAR YR IN AC-FT			PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B&M.	CFS	GAGE HT	DATE	CFS	GAGE HT	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH																
36 05 00	119 04 50	SW20 21S 27E														
These flows are deliveries from Friant-Kern Canal into Porter Slough under contract agreement with the U.S.B.R. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approx. 4 mi. W of Porterville. Records furn. by U.S.B.R. (f)																
FRAINT-KERN CANAL DELIVERY TO TULE RIVER																
36 04 25	119 05 15	NW29 21S 27E														
These flows are deliveries from Friant-Kern Canal into Tule River under contract agreements with the U.S.B.R. Delivery is located on the Tule River approx. 4 mi. W of Porterville, 11.3 mi. below So. Fork Tule River. Records furn. by U.S.B.R. (f)																
GEORGIANA SLOUGH AT MOKELUMNE RIVER																
38 07 48	121 34 46	NE12 3N 3E		5.3	2/16/59		7.1	12/26/55				JUN 29-DATE	1929 1940 1940	1940	0.00 0.00 3.11	USED USGS USED
Station located on Andrus Island, 2.8 mi. SE of Isleton. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
GRANT LINE CANAL AT TRACY ROAD BRIDGE																
37 49 13	121 26 57	NE29 1S 5E		7.5	2/21/59							OCT 40-DATE	1940 1952 1953	1952 1953	-3.66 -4.13 -2.13	USGS USCGS USCGS
Station located at Tracy Road bridge crossing, 5 mi. N of Tracy. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
HAT CREEK NEAR CASSEL																
40 58 40	121 33 21	SE18 36N 4E	818	4.08	1/12/59	818	4.08	1/12/59	388300		OCT 58-DATE	SEP 58-DATE	1958		0.00	LOCAL
Station located 400 ft. below U. S. Highway 299W bridge, 9.1 mi. NE of Burney, 4 mi. N of Cassel. Tributary to Sacramento River. Flow regulated by Pacific Gas and Electric Company power plants. Recorder installed September 18, 1958. (f)																
HELM RANCH DRAIN NEAR FIREBAUGH																
36 50 27	120 25 53	SW34 12S 14E	12	2.40	4/12/59				1040		APR 58-DATE	APR 58-DATE	1958		0.85	LOCAL
Station located 0.3 mi. above mouth of Firebaugh Wasteway, 1.9 mi. SE of Firebaugh. This is drainage returned to San Joaquin River via Firebaugh Wasteway by gravity. During periods of high water in the San Joaquin, a backwater condition occurs. At these times, an undetermined amount of water is pumped into Firebaugh Wasteway. Recorder installed April 13, 1958. (f)																
INDIAN CREEK NEAR TAYLORSVILLE																
40 03 31	120 49 10	NW 1 25N 10E	1020	3.94	1/12/59	22400E	11.49	12/23/55	112300	397200	SEP 54-DATE	AUG 54-DATE	1954		0.00	LOCAL
Station located 0.7 mi. below Montgomery Creek, 1.5 mi. SE of Taylorsville. Tributary to East Branch North Fork Feather River. Stage-discharge relationship at times affected by ice. Drainage area is 532 sq.mi. (f)																

E - Estimated
(s) - Record of stage published
B - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE	CFS	GAGE HT	DATE					FROM	TO		
KERN RIVER NEAR BAKERSFIELD																
35 26	118 57								417800	967500	93-DATE					
Also known as "Kern River at First Point". Station located 5 mi. NE of Bakersfield. Tabulated discharge is the computed regulated flow and is computed from noon to noon beginning at noon of day shown. Records furn. by Kern County Land Company. Drainage area is 2,420 sq. mi. (f)																
LIGHTS CREEK NEAR TAYLORSVILLE																
40 09 59	120 47 33	SW30 27N 11E	261	2.49	1/12/59				17020	61910	SEP 54-DATE	SEP 54-DATE	1954		0.00	LOCAL
Station located 0.4 mi. below Moonlight Creek, 6.7 mi. N of Taylorsville. Tributary to East Branch North Fork Feather River via Indian Creek. Stage-discharge relationship at times affected by ice. Drainage area is 57.6 sq. mi. (f)																
LINDA CREEK NEAR ROSEVILLE																
38 44 04	121 18 05	SE10 10N 6E	748	6.31	2/16/59				35180	84840	JUL 49-DATE	JUL 49-DATE	1956	1956	0.00 111.22	LOCAL USCGS
Station located above So. Pacific Railroad bridge, 0.6 mi. below Auburn Boulevard (old U. S. Highway 99E), immediately SW of Roseville. Also known as "Dry Creek near Roseville". Tributary to Sacramento River via Back Borrow Pit of Reclamation District 1000. (f)																
LINDO CHANNEL NEAR CHICO																
39 43 21	121 54 41	NW31 22N 1E	1880	17.24	2/16/59				21320	75390	JAN 56-DATE	JAN 56-DATE	1956		128.42	USED
Station located 100 ft. below Grape Way bridge, 4.0 mi. W of Chico. Tributary to Sacramento River via Big Chico Creek. For total flow of Big Chico Creek near Mouth, combine with flow of Big Chico Creek at Chico. (f)																
LITTLE CHICO CREEK NEAR CHICO																
39 44 01	121 46 16	NE29 22N 2E				1210	4.88	2/16/59			JAN 59-DATE	DEC 58-DATE	1958		296.00	USED
Station located above diversion dam 500 ft. S of Stilson Rd., 3.6 mi. E of Chico. Tributary to Sacramento River. During periods of high water, flow is diverted via Little Chico Creek Diversion, into Butte Creek. Recorder installed December 11, 1958. (f)																
LITTLE CHICO CREEK DIVERSION NEAR CHICO																
						356E	4.88	2/16/59			JAN 59-DATE					
See Little Chico Creek near Chico for records of stage and location. This is flow diverted from Little Chico Creek, during periods of high water, into Butte Creek. Beginning of record January 9, 1959. (f)																
LITTLE COW CREEK NEAR INGOT																
40 44 44	122 03 37	NW 2 33N 2W	6630E	15.63	2/16/59	8200E	16.64	11/13/57	56040	162900	MAR 57-DATE		1957		0.00	LOCAL
Station located 1.8 mi. NE of Ingot, 7 mi. SW of Round Mountain. Tributary to Sacramento River via Cow Creek. Drainage area is 60.4 sq. mi. (f)																
LITTLEJOHNS CREEK AT FARMINGTON																
37 55 38	121 00 08	NE19 1N 9E	1830		2/11/59	3590	15.40	4/ 3/58	15120	137200	JUN 52-DATE	JUN 52-DATE	1952		89.97	USGS
Station located 340 ft. below Farmington-Escalon Highway bridge. These flows include flows entering Littlejohns Creek via the Duck Creek Diversion. Records furn. by U.S.C.E. (s)																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M.	CFS.	GAGE HT	DATE	CFS	GAGE HT	DATE					FROM	TO		
LITTLE LAST CHANCE CREEK NEAR CHILCOOT																
39 52 01	120 10 13	SE 3 23N 16E	334	4.88	2/16/59				8245	35380	JUL 54-DATE	JUL 54-DATE	1954		0.00	LOCAL
Station located 300 ft. below county road bridge, 5.1 mi. N of Chilcoot. Prior to January 19, 1959, station located 1.0 mi. below county road bridge, 4.5 mi. N. of Chilcoot. Tributary to Middle Fork Feather River. Stage-discharge relationship at times affected by ice. Drainage area is 84.4 sq. mi. (f)																
MARIPOSA CREEK NEAR CATHAY																
37 23 55	120 00 10	NE21 6S 18E	1620	8.61	2/16/59	4530E	11.62	4/ 3/58	5386	46560	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located at highway bridge, 5.6 mi. E of Cathay School. Tributary to San Joaquin River. Drainage area is 65.7 sq. mi. (f)																
MARIPOSA CREEK BELOW MARIPOSA RESERVOIR																
37 16 52	120 09 45	NE36 7S 16E	490		2/17/59	6020		12/24/55	5322	63040	NOV 52-DATE	NOV 52-DATE	1952		337.63	USGS
Station located 1.5 mi. below Mariposa Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Mariposa Reservoir. Records furn. by U.S.C.E. Drainage area is 108 sq. mi. (f)																
MAXWELL CREEK AT COULTERVILLE																
37 42 58	120 11 20	SE34 2S 16E				528	5.13	2/16/59			DEC 58-DATE	DEC 58-DATE	1958		0.00	LOCAL
Station located below Dogtown Road bridge, 0.5 mi. NE of Coulterville. Tributary to Merced River. Recorder installed December 10, 1958. (f)																
McLEOD LAKE AT STOCKTON																
37 57 23	121 17 30	SW 2 1N 6E		8.9	2/16/59							DEC 27-DATE	1933		-3.37	USGS
														1958	-3.80	USGS
Station located at U. S. Coast Guard Stockton Channel Light Attendant Station on Center Street. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. Variable gage datum, gage subject to subsidence. (s)																
MERCED RIVER AT CRESSEY																
37 25 28	120 39 47	SW 9 6S 12E	603	2.57	2/17/59	34400	22.67	12/ 4/50	66540	1000000	JUL 41-DEC 41 JUL 42-DATE	APR 41-DATE	1950		96.24	USGS
Station located 100 ft. above McSwain Bridge, immediately N of Cressey.																
MERCED RIVER BELOW SNELLING																
37 30 06	120 27 03	NE17 5S 14E		6.6	12/ 3/58						NOV 58-DATE	NOV 58-DATE	1958		0.00	LOCAL
Station located 0.2 mi. below Merced-Snelling Highway bridge, 1.4 mi. SW of Snelling. Prior to November 26, 1958, station located at and records available for a site 3.6 mi. downstream. Flow regulated by Exchequer power plant and Lake McClure. (fs)																
MIDDLE CREEK NEAR UPPER LAKE																
39 12 32	122 55 31	SW25 16N 10W									OCT 48-SEP 53 MAR 59-DATE	OCT 48-DATE	1948		0.00	LOCAL
Station located 100 ft. below Lake Pillsbury Road bridge, 3.1 mi. N of Upper Lake. Tributary to Clear Lake (f)																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
MIDDLE FORK CHOWCHILLA RIVER NEAR NIPINNAWASEE																
37 22 56	119 50 11	NE25 6S 19E	421	4.82	2/16/59	2500E	8.30	4/ 3/58	1992		MAR 58-DATE	MAR 58-DATE	1958		0.00	LOCAL
Station located 6 mi. W. of Nipinnawasee, 10 mi. SE of Mariposa. Tributary to East Fork Chowchilla River. Drainage area is 12.3 sq. mi. (f)																
MIDDLE FORK FEATHER RIVER NEAR PORTOLA																
39 49 13	120 26 24	NE29 23N 14E	1000'	5.90	2/21/59				54490	254800	NOV 55-DATE	NOV 55-DATE	1955		0.00	LOCAL
Station located S of U. S. Highway 40A, 1.8 mi. NE of Portola. Stage-discharge relationship at times affected by ice. (f)																
MIDDLE RIVER AT BACON ISLAND																
38 00 07	121 31 22	SW22 2N 4E		8.1	2/16/59							OCT 48-DATE	1948		-2.94	USCGS
Station located at NE corner of Bacon Island at junction of Middle River and Connection Slough. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge.(s)																
MIDDLE RIVER AT BORDEN HIGHWAY																
37 53 28	121 29 20	NW36 4E 1N		5.0	2/16/59		7.2	12/26/55				JUL 39-DATE	1939 1943 1943	1943	-4.10 0.00 3.15	USGS USGS USED
Station located on Victoria Island, below State Highway 4 bridge, 10 mi. NW of Tracy. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
MIDDLE RIVER AT MOWRY BRIDGE																
37 50 04	121 22 59	NE24 1S 5E		8.1	2/21/59							JUL 48-DATE	1948 1952	1952	-2.70 -2.67	USGS USCGS
Station located at Undine Road crossing on Upper Roberts Island. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
MILL CREEK NEAR LOS MOLINOS																
40 03 17	122 01 23	NW 6 25N 1W		8.65	2/16/59	23000	23.4	12/11/37			OCT 28-DATE	OCT 28-DATE				
Station located 5.5 mi. above mouth, 4.5 mi. NE of Los Molinos. Tributary to Sacramento River. Records furn. by U.S.G.S. Drainage area is 134 sq. mi. (s)																
MILLER CREEK NEAR SATTLEY																
39 36 03	120 25 19	NE 9 20N 14E	46	1.55	2/11/59	213	4.08	12/23/55	5175	11800	SEP 54-DATE	SEP 54-DATE	1954 1958	1958	0.00 -1.00	LOCAL LOCAL
Station located 0.2 mi. W of State Highway 89, 1.0 mi. S of Sattley. Tributary to Middle Fork Feather River. Stage-discharge relationship at times affected by ice. Drainage area is 7.6 sq. mi. (f)																

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M.	C F S.	GAGE HT.	DATE	C F S	GAGE HT.	DATE					FROM	TO		
MILLERTON LAKE																
37 00 00	119 42 10	SW 5 11S 21E							1132000	2599000	OCT 41-DATE	OCT 41-DATE	1941		0.00	USGS
Station located near center of Friant Dam on San Joaquin River, immediately above Cottonwood Creek, 0.9 mi. NE of Friant. Usable capacity, 503,000 ac.-ft. between elevations 375.4 and 578.0 ft. above mean sea level. Not available for release, 17,400 ac.-ft. Inflow to Friant Reservoir takes into account change in storage, release, spill, precipitation, and evaporation, and is representative of the natural flow which would pass the dam site if the dam had not been constructed. Figures shown under total discharge are computed inflow to the reservoir. Period of record for computed inflow is shown under period of record for discharge. Period of record for daily content is shown under period of record for stage. Records furn. by U.S.B.R. Drainage area is 1,633 sq. mi.																
MINER SLOUGH AT FIVE POINTS																
38 17 30	121 38 40	SE 9 5N 3E		11.4	2/21/59		15.8	2/27/58				NOV 57-DATE	1957		-3.45	USGS
Station located on West Cut above junction with Miner Slough, approx. 750 ft. N of Five Points Resort. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
MOKELUMNE RIVER NEAR CLEMENTS																
38 12 25	121 05 20	NW15 4N 8E		4.71	2/18/59	28800	24.40	11/21/50			OCT 04-DATE	OCT 04-DATE	1904 1926 1930	1926 1930	69.09 67.09 67.16	USGS USGS USGS
Station located 700 ft. above highway bridge, 1.0 mi. N of Clements. Flow regulated by Pardee Reservoir, Salt Springs Reservoir, several smaller reservoirs and four power plants. Records furn. by U.S.G.S. Drainage area is 630 sq. mi. (s)																
MOKELUMNE RIVER AT WOODBRIDGE																
38 09 30	121 18 10	NE34 4N 6E		12.14	12/31/58	27000	29.58	11/22/50			MAY 24-OCT 25 8 JAN 26-DATE	MAY 24-DATE	1924 1931	1931	18.86 14.86	USGS USGS
Station located 0.3 mi. below county highway bridge, 0.4 mi. below dam and canal intake of Woodbridge Irrigation District. Records furn. by U.S.G.S. Drainage area is 644 sq. mi. (s)																
MOKELUMNE RIVER NEAR THORNTON																
38 15 20	121 26 21	NW28 5N 5E					8.1	2/19/59				FEB 59-DATE	1959		0.4	USCGS
Station located at highway bridge 2.3 mi. NW of Thornton. Also known as "Mokelumne River at Benson Ferry". Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. Recorder installed February 18, 1959. (s)																
MORMON SLOUGH AT BELLOTA																
38 03 10	121 00 37	SW 5 2N 9E	2500	8.16	2/11/59				46340	309300	DEC 48-DATE	DEC 48-DATE	1952		0.00	LOCAL
Station located 0.2 mi. above Farmington-Bellota Highway bridge, 0.2 mi. E of Bellota. During irrigation season flow regulated by boards placed across diversion dam immediately downstream. This is flow from Calaveras River which is returned to the river via Stockton Diverting Canal. (f)																
MOULTON WEIR SPILL TO BUTTE BASIN																
39 20 18	122 01 18	SE12 17N 2W	8400	79.77	2/17/59		83.8	2/ 7/42	15370	993600	JAN 40-DATE	JAN 35-DATE	1935		0.00	USED
Station located west of south end of weir, 4.6 mi. S of Princeton. Elevation of weir crest is 76.75 ft. U.S.E.D. datum; length of crest is 500 ft. (f)																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T.&R. M.D.B.&M.	CFS	GAGE HT.	DATE	CFS	GAGE HT	DATE	1958-59 WATER YR IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
NEWMAN WASTEWAY NEAR NEWMAN																
37 19 28	120 58 58	SW15 7S 9E	138E	4.30	8/12/59				3780		MAR 58-DATE	MAR 58-DATE	1958		0.00	LOCAL
Station located 70 ft. above bridge, 2.3 mi. E of Newman. This is drainage returned to San Joaquin River. Recorder installed March 6, 1958. (f)																
NORTH FORDK COTTONWOOD CREEK NEAR IGO																
40 26 32	122 32 57	NW21 30N 6W	3730	33.69	2/16/59	6930	35.59	2/18/58	74420	318400	NOV 56-DATE	NOV 56-DATE	1956		30.60	LOCAL
Station located at county road bridge, 4.4 mi. S of Igo, 4.4 mi. SE of Ono. Tributary to Sacramento River via Cottonwood Creek. Drainage area is 88.7 sq. mi. (f)																
NORTH FORK MERCED RIVER NEAR COULTERVILLE																
37 44 51	120 02 12	NW19 2S 18E				.951	5.21	2/16/59			DEC 58-DATE	DEC 58-DATE	1958		0.00	LOCAL
Station located 40 ft. above Greeley Hill Road bridge, 9 mi. NE of Coulterville. Recorder installed December 17, 1958. (f)																
NORTH FORK MILL CREEK NEAR LOS MOLINOS																
40 03 05	122 05 11	NE 4 25N 2W				18	3.03	9/18&19/59			APR 59-DATE	APR 59-DATE	1959		0.00	LOCAL
Station located 0.2 mi. E of Shasta Ave. bridge, 2.1 mi. N of Los Molinos. This is regulated diversion from Mill Creek to Sacramento River. Recorder installed April 14, 1959. (f)																
NORTH FORK TULE RIVER AT SPRINGVILLE																
36 08 23	118 48 16	SE35 20S 29E	235E	6.45E	2/16/59	2070	9.27	5/19/57	6088	59020	FEB 57-DATE	FEB 57-DATE	1957		3.75	LOCAL
Station located at State Highway 190 bridge, 0.8 mi. NE of Springville. Drainage area is 97.9 sq. mi. (f)																
OLD RIVER AT CLIFTON COURT FERRY																
37 49 28	121 33 05	SE20 1S 4E		7.2	2/21/59							DEC 48-DATE	1948 1952	1952	-2.25 -2.1	USGS USCGS
Station located approx. 2,000 ft. below junction with Grant Line Canal. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
OLD RIVER AT HOLLAND TRACT																
38 00 26	121 34 47	NW19 2N 4E		8.4	2/16/59							SEP 51-DATE	1951	1955	-2.61	USCGS
Station located approx. 1.5 mi. S of NE corner of Holland Tract. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
OLD RIVER AT MANSION HOUSE																
37 54 37	121 33 39	NW29 1N 4E		5.2	2/16/59		7.4	12/26/55				AUG 39-DATE	1939 1943 1943	1943	2.3 0.00 3.15	USED USGS USED
Station located on Victoria Island, 0.2 mi. S of North Victoria Canal, 7.5 mi. E of Brentwood. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
OLD RIVER NEAR ROCK SLOUGH																
37 59 25	121 34 49	SW30 2N 4E		8.1	2/16/59		10.0	12/26/55				MAR 45-DATE	1945 1945	 1947	-3.0 0.00	USGS USED
Station located on American Island (formerly Holland Tract), 1.2 mi. N of Rock Slough, 4.7 mi. NE of Knightsan. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. U.S.E.D. datum referred to head of Snodgrass Slough. (s)																
OLD RIVER NEAR TRACY ROAD BRIDGE																
37 48 18	121 26 53	SW32 1S 5E		9.3	2/21/59		13.2	12/29/55				JUN 51-DEC 51 MAR 52-DEC 52 MAY 53-OCT 53 JUN 54-DEC 54 FEB 55-DATE				
Station located 30 ft. above Tracy Road bridge, 3.5 mi. NW of Tracy. Prior to January 23, 1959, station located at Galli's Pump, approx. 0.2 mi. above Tracy Road bridge. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
ORESTIMBA CREEK NEAR CROWS LANDING																
37 24 59	121 00 45	SW 8 6S 9E	3410E	12.81	2/16/59				18670		DEC 57-DATE	DEC 57-DATE	1957		0.00	LOCAL
Station located 0.1 mi. below River Road Bridge, 3.7 mi. NE of Crows Landing. This includes drainage returned to San Joaquin River. Backwater from San Joaquin River at times affects stage-discharge relationship. Recorder installed December 20, 1957. (f)																
OWENS CREEK BELOW OWENS RESERVOIR																
37 18 28	120 11 35	SW23 7S 16E	63			590		12/24/55	1251	11920	FEB 50-DATE	FEB 50-DATE	1950		338.22	USGS
Station located 0.25 mi. below Owens Dam. Tributary to San Joaquin River via Mariposa Creek and Bear Creek. Flow regulated by Owens Reservoir. Records furn. by U.S.C.E. Drainage area is 25.6 sq. mi. (f)																
PANOCHE DRAIN NEAR DOS PALOS																
36 55 25	120 41 19	NW 5 12S 12E					3.78	5/ 2/59			FEB 59-DATE	FEB 59-Date	1959		0.00	LOCAL
Station located midway between outside and main canals 0.5 mi. S of main canal levee road, 5.6 mi. SW of Dos Palos. This is drainage returned to San Joaquin River. Backwater from San Joaquin River at times affects stage-discharge relationship. During these periods there is insufficient data to compute flow. Record installed February 25, 1959. (f)																
PINE CREEK NEAR ALTURAS																
41 25 59	120 26 32	SW35 42N 13E	102	1.40	2/16/59	109	1.46	5/21/58	10290	19580	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located approx. 0.1 mi. N of road, 6.1 mi. SE of Alturas. Tributary to Pit River. Stage-discharge relationship at times affected by ice. (f)																
PIT RIVER BELOW ALTURAS																
41 28 54	120 38 25	NE13 42N 11E	336	5.72	2/17/59	2190E	13.40	2/25/58	58990	240700	OCT 57-DATE	OCT 57-DATE	1957		0.00	LOCAL
Station located at county road bridge, 5 mi. W of Alturas. Stage-discharge relationship at times affected by temporary diversion dam approx. 3 mi. below station and also by ice. During periods of backwater affect by dam, flow listed is not considered to have the same degree of accuracy as other records published in this report. Flow is regulated by many small reservoirs. (f)																

E - Estimated
(s) - Record of stage published

8 - Irrigation season only

- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S	GAGE HT.	DATE					FROM	TO		
PIT RIVER AT PITTVILLE																
41 02 44	121 19 54	NE13 37N 5E	1630	5.59	2/20/59	7710	10.34	2/26/58	120500	553600	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located 100 ft. below county road bridge, immediately SE of Pittville. Flow listed is not considered to have same degree of accuracy as other records published in this report. (f)																
PLEASANTS CREEK NEAR WINTERS																
38 28 40	122 01 43	SE 1 7N 2W	4000E	14.78	2/16/59	4000E	14.78	2/16/59	4616	17550	NOV 51-JUN 54 OCT 57-DATE	NOV 51-JUN 54 OCT 57-DATE	1957		150.33	USGS
Station located 1.0 mi. above mouth, E of Pleasants Valley Road, 4.4 mi. SW of Winters. Tributary to Yolo Bypass via Putah Creek. (f)																
PORTER SLOUGH AT PORTERVILLE																
36 03 29	118 59 08	SE31 21S 28E	112	3.52	2/17/59				999	36460	JAN 42-DATE	JAN 42-DATE	1957		1.00	LOCAL
Station located at "B" Lane bridge, immediately E of Porterville. This is regulated diversion from Tule River. Prior to January 1953 station located at a site approx. 1 mi. upstream. (f)																
PORTER SLOUGH NEAR PORTERVILLE																
36 04 00	119 03 08	NE28 21S 27E	63	2.11	2/17/59	364	5.14	4/ 3/58	311	27380	JAN 57-DATE	JAN 57-DATE	1957		1.00	LOCAL
Station located at Newcomb Drive bridge, 2.0 mi. W of Porterville. Tributary to Tulare Lake Basin via Tule River. (f)																
PUTAH CREEK ABOVE DAVIS																
38 32 13	121 51 00	SW15 8N 1E	8260	15.53	2/16/59	8260	15.53	2/16/59	23530	49510	MAY 52-NOV 53ϑ OCT 57-DATE	MAY 52-NOV 53ϑ OCT 57-DATE	1957		47.52	USGS
Station located at Stevenson Road bridge, 6.0 mi. W of Davis. Tributary to Yolo Bypass via South Fork Putah Creek. (f)																
PUTAH CREEK BELOW WINTERS																
38 31 47	121 55 21	NE24 8N 1W	7980	12.82	2/16/59	7980	12.82	2/16/59	19650	46230	OCT 57-DATE	OCT 57-DATE	1957		75.06	USGS
Station located at Boyce Orchard, 2.7 mi. E of Winters. (f)																
PUTAH CREEK NEAR WINTERS																
38 31	122 05	NE28 8N 2W		8.44	2/16/59	81000	30.5	2/27/40			JUN 30-DATE	JUN 30-DATE	1930 1940	1940	161.6 160.75	USGS USGS
Station located 1.0 mi. below Monticello Dam, 6 mi. W of Winters. Flow regulated by Lake Berryessa. Low-water records are not equivalent to records near Davis. Records furn. by U.S.G.S. Drainage area is 577 sq. mi. (s)																
RECLAMATION DISTRICT 70 DRAINAGE TO SACRAMENTO RIVER																
39 04 08	121 51 43	NE16 14N 1E							20750	36610	MAY 24-OCT 38ϑ JAN 39-DATE					
Plant located 1.7 mi. E of Grimes. This is drainage returned by pumping and gravity. Plant also discharges to irrigation canals. (f)																

E - Estimated
(s) - Record of stage published
ϑ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
RECLAMATION DISTRICT 108 DRAINAGE TO SACRAMENTO RIVER																
38 51 45	121 47 29	NE30 12N 2E							111300	149500	APR 24-OCT 38δ JAN 39-DATE					
Plant located 4.5 mi. E of Robbins. This is drainage returned by pumping. Pumping hours vary and figures shown are not necessarily daily flows. See Sacramento River near Rough and Ready Bend for stages in river. Additional water is sometimes returned to Colusa Basin Drain. (f)																
RECLAMATION DISTRICT 787 DRAINAGE TO COLUSA BASIN DRAIN																
38 48 03	121 43 28	NW14 11N 2E							6049	9326	JAN 40-DATE					
Plant located 0.3 mi. W of Knights Landing. This is drainage returned by pumping between the Knights Landing Outfall Gates and the Sacramento River. Daily distribution of flows is not available since the plant operates on an automatic float switch. Additional water returned to Sacramento River. (f)																
RECLAMATION DISTRICT 787 DRAINAGE TO SACRAMENTO RIVER																
38 50 47	121 43 46	NE34 12N 2E							16350	22340	MAY 49-DATE					
Plant located 2.1 mi. SW of Robbins. This is drainage returned by pumping. Daily distribution of flows is not available since the plant operates on an automatic float switch. Additional water returned to Colusa Basin Drain. (f)																
RECLAMATION DISTRICT 1000 DRAINAGE TO SACRAMENTO RIVER (Pritchard Lake)																
38 43 51	121 36 07	SE12 10N 3E							0	8156	JAN 55-DATE					
Plant located 3.9 mi. S of Verona. This is drainage returned by pumping only. Additional water is returned by Second Bannon Slough Plant and an undetermined amount by No. 3 Plant. There is an undetermined amount of gravity flow. (f)																
RECLAMATION DISTRICT 1000 DRAINAGE TO SACRAMENTO RIVER (Second Bannon Slough)																
38 36 21	121 31 26	SW22 9N 4E							14100	72080	MAY 25-OCT 38δ JAN 39-DATE				0.00	USED
Plant located 3.0 mi. NW of Sacramento. This is drainage returned by pumping. Additional water is returned by Pritchard Lake Plant and an undetermined amount by No. 3 Plant. (f)																
RECLAMATION DISTRICT 1001 DRAINAGE TO NATOMAS CROSS CANAL																
38 47 26	121 35 47	NW24 11N 3E							3602	31450	JAN 40-DATE					
Plant located 1.2 mi. E of Verona. This is drainage returned by pumping only. There is an undetermined amount of gravity flow. (f)																
RECLAMATION DISTRICT 1500 DRAINAGE TO SACRAMENTO SLOUGH																
38 47 05	121 39 18	NE20 11N 3E					41.1	3/ 1/40	176500	236700	APR 30-OCT 38δ JAN 39-DATE	15-DATE			0.00	USED
Plant located on west levee at Sacramento Slough at district drainage pumping plant, 3.7 mi. SE of Knights Landing. This is drainage returned by pumping and gravity. (f)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT	DATE	C.F.S.	GAGE HT	DATE					FROM	TO		
RED BANK CREEK NEAR RED BLUFF																
40 05 23	122 24 45	SE22 26N 5W		10.11	2/16/59	5610		2/21/56		82600	FEB 48-JUL 49ȣ APR 50-APR 56 NOV 56-DATE	FEB 48-JUL 49ȣ APR 50-APR 56 NOV 56-DATE	1956		0.00	LOCAL
Station located at Red Bank Road bridge, 11 mi. SW of Red Bluff. Prior to March 18, 1959, station located 150 ft. above Red Bank Road bridge. Flow listed is not considered to have the same degree of accuracy as other records published in this report. (f)																
RED CLOVER CREEK NEAR GENESEE																
40 02 56	120 39 41	SW 5 25N 12E	329	3.74	3/13/59	4180E	7.98	12/23/55	31390	96980	AUG 54-DATE	AUG 54-DATE	1954		0.00	LOCAL
Station located 1.4 mi. above mouth, 5 mi. E of Genesee. Tributary to East Branch North Fork Feather River via Indian Creek. Stage-discharge relationship at times affected by ice. Drainage area is 120 sq. mi. (f)																
ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE																
37 58 35	121 38 19	SW34 2N 3E		8.2	2/16/59							OCT 44-FEB 46 DEC 46-DATE	1944 1952	1952 1953	0.40 0.50	USGS USCGS
Station located at Contra Costa Canal intake approx. 1.5 mi. NE of Knightsen. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
RUSH CREEK NEAR ADIN																
41 15 47	120 53 31	NW36 40N 9E	92	3.35	3/ 1/59	752E	5.74	2/24/58	4721	14210	NOV 57-DATE	NOV 57-DATE	1957		4365.27	USCGS
Station located at U. S. Highway 299 bridge, 5.4 mi. NE of Adin. Tributary to Pit River via Ash Creek. Stage-discharge relationship at times affected by ice. (f)																
SACRAMENTO RIVER AT BALLS FERRY																
40 24 56	122 11 32	NW34 30N 3W		14.67	2/16/59	73900	16.61	12/27/51			MAR 45-APR 52 MAR 54-DEC 57 MAR 58-DATE ȣ	MAR 45-APR 52 MAR 54-DATE			359.00	USED
Station located 0.2 mi. below Balls Ferry Bridge, 5.0 mi. NE of Cottonwood. Flow computed for irrigation season only. (f)																
SACRAMENTO RIVER AT BUTTE CITY																
39 27 35	121 59 35	NE32 19N 1W		91.37	2/17/59	170000	96.87	2/ 7/42			JUL 19-OCT 38ȣ JAN 39-DATE	JUL 19-OCT 28ȣ APR 29-DATE	1921		0.00	USED
Station located at Highway bridge, 0.5 mi. S of Butte City. Maximum discharge of record listed is for period 1940 to Date. Records furn. by U.S.G.S. (s)																
SACRAMENTO RIVER AT BUTTE SLOUGH OUTFALL GATES																
39 11 42	121 56 08	NE35 16N 1W										36-DATE	1936		0.00	USED
Staff located 4.0 mi. E of Colusa, 3.7 mi. N of Meridian. Gage read daily by Butte Slough Irrigation Company, Ltd. (s)																
SACRAMENTO RIVER AT CLARKSBURG																
38 25 25	121 31 42	SW27 7N 4E		18.0	2/21/59		24.0	12/23/55				MAR 36-DATE	1936 1936		0.00 -3.1	USED USGS
Station located at American Crystal Sugar Company dock, immediately N of Clarksburg. Station affected by tidal action. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																

E - Estimated
(s) - Record of stage published
ȣ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M.	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE					FROM	TO		
SACRAMENTO RIVER AT COLLINSVILLE																
38 04 25	121 51 18	SW27 3N 1E		8.1	2/16/59		9.2	4/ 6/58				JUN 29-DATE	1929 1929		0.00 -3.05	USED USGS
Station located 0.4 mi. SW of Collinsville, 3.3 mi. NE of Pittsburg. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SACRAMENTO RIVER AT COLUSA																
39 12 50	121 59 55	NW29 16N 1W		65.27	2/18/59	49000	69.20	2/ 8/42			APR 20-OCT 38ϋ JAN 39-DATE	APR 19-DATE	1921		0.00	USED
Station located just below highway bridge at Colusa. Maximum discharge of record listed is for period 1938 to date. Records furn. by U.S.G.S. (s)																
SACRAMENTO RIVER AT COLUSA WEIR																
See Colusa Weir Spill to Butte Basin. Gage heights below weir crest (61.80 ft.) are not tabulated. (s)																
SACRAMENTO RIVER NEAR FREEPORT																
38 28 23	121 31 58	SW10 7N 4E		17.2	2/20/59							AUG 55-DATE	1955 1956	1956	4.93 0.00	USGS USGS
Station located 10.7 mi. below Sacramento, 1.9 mi. NW of Freeport. Station affected by tidal action. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
SACRAMENTO RIVER AT FREMONT WEIR, EAST END																
38 45 55	121 38 05	SW27 11N 3E		35.5	2/19/59		39.3	3/ 1/40				APR 35-DATE	1935		0.00	USED
Station located approx. 200 ft. N of weir, 5.2 mi. SE of Knights Landing. Gage heights below weir crest (33.50 ft.) are not tabulated. (s)																
SACRAMENTO RIVER AT FREMONT WEIR, WEST END																
38 45 34	121 39 59	NW32 11N 3E		36.3	2/19/59		39.7	12/23/55				AUG 34-DATE	1934		0.00	USED
Station located 0.1 mi. W of weir, 4.0 mi. SE of Knights Landing. (s)																
SACRAMENTO RIVER AT HAMILTON CITY																
39 45 07	121 59 43	NE20 22N 1W				350000E	22.6	2/28/40	7063000	15710000	APR 45-DATE	27-DATE	1927 1945 1945	1945	127.9 100.00 96.5	USED USED USGS
Station located at Gianella Bridge, State Highway 32, 1.0 mi. NE of Hamilton City. Recorder washed out by high water January 9, 1959. Records available from January 10 to September 30 are based on two or more daily staff gage readings and should not be considered to have the same degree of accuracy as other records published in this report. (fs)																
SACRAMENTO RIVER AT ISLETON																
38 09 46	121 36 42	SW26 4N 3E		8.8	2/21/59							APR 49-DATE	1949 1952	1952 1953	-4.41 -4.47	USGS USGS
Station located at Shell Oil Company docks near junction of State Highways 12 and 24, immediately NW of Isleton. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																

E - Estimated
(s) - Record of stage published

ϋ - Irrigation season only

- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S	GAGE HT.	DATE					FROM	TO		
SACRAMENTO RIVER AT KESWICK																
40 36 10	122 26 35	NW28 32N 5W		22.14	2/20/59	186000	47.2	2/28/40			OCT 38-DATE	OCT 38-DATE	1938 1939 1942	1939 1942	500.01 495.01 479.81	USGS USGS USGS
Station located 0.6 mi. below Keswick Dam, 1.5 mi. below Keswick. Flow regulated by Shasta Lake. Records furn. by U.S.G.S. Drainage area, excluding Goose Lake basin, is approx. 6,710 sq. mi. (s)																
SACRAMENTO RIVER AT KNIGHTS LANDING																
38 48 10	121 42 55	NE14 11N 2E		37.63	2/20/59	29600	41.83	2/22/58 2/ 8/42			JUL 19-OCT 38 8 JAN 39-DATE	JUL 19-DATE	1921		0.00 -3.02	USED USGS
Station located just above the Southern Pacific Railroad bridge, 13.1 mi. above Feather River immediately NE of Knights Landing. Station affected by backwater from Feather River and Sutter Bypass during periods of high flow. Maximum discharge of record listed is for period 1940 to date. Records furn. by U.S.G.S. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
SACRAMENTO RIVER AT MERIDIAN																
39 08 42	121 55 00	SE13 15N 1W		59.14	2/18/59		64.4	3/ 1/40			MAR 54-OCT 54 JAN 55-DEC 55 MAR 56-DATE 8	15-DATE			0.00	USED
Station located 190 ft. below Meridian Bridge, State Highway 20, immediately NW of Meridian. Flow computed for irrigation season only. (fs)																
SACRAMENTO RIVER AT MOULTON WEIR																
See Moulton Weir Spill to Butte Basin. Gage heights below weir crest (76.80 ft.) are not tabulated.																
SACRAMENTO RIVER OPPOSITE MOULTON WEIR																
39 20 13	122 01 50	SW12 17N 2W		80.08	2/17/59		85.5	2/ 7/42			MAR 54-DATE 8	OCT 22-MAY 40# JUL 40-JUL 41 NOV 41-JUL 43# OCT 43-DATE			0.00	USED
Station located immediately W of weir, 4.8 mi. S of Princeton. Flow computed for irrigation season only. (fs)																
SACRAMENTO RIVER NEAR MOUNT SHASTA																
41 16 00	122 18 38	SE33 40N 4W				958	4.88	4/25/59			APR 59-DATE	APR 59-DATE	1959			LOCAL
Station located 1.5 mi. SW of junction of State Highway 89 and U. S. Highway 99, 3 mi. S of Mount Shasta. Recorder installed April 21, 1959. (f)																
SACRAMENTO RIVER AT ORD FERRY																
39 37 39	121 59 28	SE32 21N 1W	109000E	114.80	2/17/59	370000	121.7	2/28/40	7516000	17690000	JAN 48-DATE	21-MAY 27# FEB 37-MAY 37 OCT 37-MAY 39 NOV 39-MAY 41# NOV 41-DATE	1937		0.00	USED
Station located 0.1 mi. below Ord Ferry. Records of flow in excess of 70,000 c.f.s. are based on extension of rating curve and correlation with adjacent gaging stations because of inability to measure flow above this figure. (fs)																
SACRAMENTO RIVER AT PRITCHARD LAKE																
38 43 51	121 36 07	SE12 10N 3E										15-DATE			0.00	USED
Staff located at Reclamation District 1000 pumping plant, 3.9 mi. S of Verona. Gage read daily by pump operators. (s)																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S	GAGE HT.	DATE					FROM	TO		
SACRAMENTO RIVER AT RECLAMATION DISTRICT 70 PUMPING PLANT																
39 04 08	121 51 43	NE16 14N 1E										25-DATE			0.00	USED
Staff located at district pumping plant, 1.7 mi. E of Grimes. Gage read daily by pump operators. (s)																
SACRAMENTO RIVER ABOVE RECLAMATION DISTRICT 108 PUMPING PLANT																
38 52 58	121 48 59	SW13 12N 1E									MAR 55-DATE ϑ	FEB 55-DEC 55 FEB 56-DATE				
Station located below Tyndall Landing, 2.5 mi. NW of district drainage pumping plant, 6.2 mi. W of Robbins. Flow, computed for irrigation season only, based on correlation with adjacent gaging stations and should not be considered to have the same degree of accuracy as other records published in this report. (f)																
SACRAMENTO RIVER AT RED BLUFF																
40 10 43	122 13 45	SW20 27N 3W		21.8	2/16/59		32.2	2/28/40				1878-DATE	1957	1957	236.89 236.60	USGS USCGS
Station located at E end of U. S. Highway 99E bridge, immediately E of Red Bluff. Prior to November 1957 staff gage readings at same location. (s)																
SACRAMENTO RIVER NEAR RED BLUFF																
40 13 55	122 10 50	SE34 28N 3W		19.41	2/16/59	291000	38.9	2/28/40			JAN 92-DATE	JAN 92-DATE	1902		253.18	USGS
Station located at lower end of Iron Canyon, 0.5 mi. below Sevenmile Creek, 4.6 mi. NE of Red Bluff. Records prior to January 1902 at a site 16.2 mi. upstream. Records furn. by U.S.G.S. Drainage area, excluding Goose Lake basin, is approx. 9,300 sq. mi. (s)																
SACRAMENTO RIVER NEAR REDDING																
40 32 19	122 21 20	SE18 31N 4W		48.98	1/28/59						MAR 45-APR 52 MAR 54-DEC 57 MAR 58-DATE ϑ	MAR 45-DEC-52 MAR 54-DATE	1945		403.00	USED
Station located below diversion dam of Anderson-Cottonwood Irrigation District, 300 ft. above Churn Creek pumps, 3.5 mi. SE of Redding. Flow regulated by Shasta Lake. Flow computed for irrigation season only. (f)																
SACRAMENTO RIVER AT RIO VISTA																
38 08 42	121 41 30	SW31 4N 3E		8.6	2/16/59		10.0	12/26/55				25-DATE	1925 1925		-3.06 0.00	USGS USED
Station located on dock at U. S. Engineers Transportation Depot, 1.1 mi. below the Rio Vista Bridge. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SACRAMENTO RIVER NEAR ROUGH AND READY BEND																
38 51 45	121 47 29	NE30 12N 2E										MAR 37-DATE	1937		0.00	USED
Staff located at Reclamation District 108 drainage pumping plant, 4.5 mi. E of Robbins. Gage read at least twice daily by pump operators. (s)																
SACRAMENTO RIVER AT SACRAMENTO																
38 35 20	121 30 15	NW35 9N 4E	67400	21.64	2/20/59	104000	30.14	11/21/50	11980000	24570000	04- 05 JUN 21-NOV 21 MAY 24-DEC 42ϑ MAY 43-DATE	JAN 04-JUL 05 20-DATE	1956	1956	3.10 0.12 2.98 0.00	USED USGS USED USGS
Station located 1,000 ft. above the I Street Bridge, 0.5 mi. below the American River. This represents the flow of the Sacramento River past Sacramento into the Delta. Additional Sacramento River water reaches the Delta via Sacramento Weir and Yolo Bypass near Woodland. Below about 35,000 c.f.s., the stage-discharge relationship is affected by tidal influence. Maximum discharge of record listed is for period 1921, 1948 to date. Records furn. by U.S.G.S. (fs)																

E - Estimated
(s) - Record of stage published
ϑ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
SACRAMENTO RIVER AT SACRAMENTO WEIR																
38 36 09	121 33 12	NE29 9N 4E		26.7	2/20/59		33.1	12/23/55				NOV 26-JUL 37# OCT 37-DATE	1926 1926		-3.07 0.00	USGS USED
Station located 100 ft. below weir, 4 mi. NW of Sacramento. Station affected by tidal action. (s)																
SACRAMENTO RIVER OPPOSITE SACRAMENTO WEIR																
38 36 24	121 33 15	SE20 9N 4E		26.8	2/20/59							42-DATE #	1942		0.00	USED
Station located immediately E of weir, 4.2 mi. NW of Sacramento. Gage heights below weir crest (25.00 ft.) are not tabulated. (s)																
SACRAMENTO RIVER AT SECOND BANNON SLOUGH																
See Reclamation District 1000 Drainage to Sacramento River (Second Bannon Slough). Gage read at least twice daily by pump operators. (s)																
SACRAMENTO RIVER AT SNODGRASS SLOUGH																
38 21 02	121 31 56	SW22 6N 4E		15.4	2/21/59		20.5	12/23/55				AUG 39-DATE	1939 1939		-3.02 0.00	USGS USED
Station located 0.2 mi. above head of slough (leveed off from river), W of State Highway 24, 2.5 mi. NE of Courtland. Station affected by tidal action. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
SACRAMENTO RIVER AT TISDALE WEIR																
See Tisdale Weir Spill to Sutter Bypass. Gage heights below weir crest (45.45 ft.) are not tabulated. (s)																
SACRAMENTO RIVER BELOW TISDALE WEIR																
39 01 15	121 49 11	NE35 14N 1E		48.7	2/18/59		53.5	3/ 1/40				JAN 25-DATE			0.00	USED
Station located at Sutter Mutual Water Company pumping plant, 0.2 mi. below S end of Tisdale Weir, 5.5 mi SE of Grimes. (s)																
SACRAMENTO RIVER AT VERONA																
38 46 50	121 36 10	SE23 11N 3E		35.26	2/19/59	79200	41.20	3/ 1/40			MAY 26-OCT 28δ MAY 29-DATE	MAY 26-DATE	1926		-0.06	USED
Station located 0.8 mi. SE of Verona, 1.0 mi. below the Feather River. Maximum discharge listed is for period 1926 to date. Records furn. by U.S.G.S. (s)																
SACRAMENTO RIVER AT VINA BRIDGE																
39 54 34	122 05 31	NE28 24N 2W	101000	84.60	2/16/59	147000	89.42	2/25/58	7956000	16450000	APR 45-DATE	APR 45-DATE	1945		100.00 97.15	USED USCGS
Station located 250 ft. above Vina-Corning Highway bridge, 2.6 mi. SW of Vina. (fs)																
SACRAMENTO RIVER AT WALNUT GROVE																
38 14 22	121 30 57	SW35 5N 4E		8.9	2/21/59		12.4	4/ 4/58				FEB 29-DATE	1929 1931 1940 1940	1931 1940	0.00 0.33 0.00 2.84	USED USED USGS USED
Station located at head of Georgiana Slough, immediately SW of Walnut Grove. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
SACRAMENTO RIVER BELOW WILKINS SLOUGH																
39 00 35	121 49 25	NE 2 13N 1E		48.30	2/18/59	28900	51.41	2/27/58			APR 31-OCT 38ß JAN 39-DATE	AUG 31-DATE	1931		0.00	USED
Station located 0.3 mi. below Wilkins Slough pumping plant of Reclamation District 108, 1.3 mi. below Tisdale Weir, 6 mi. SE of Grimes. Maximum discharge of record listed is for period 1938 to date. Records furn. by U.S.G.S. (s)																
SACRAMENTO SLOUGH AT SACRAMENTO RIVER																
38 46 52	121 38 27	SE21 11N 3E		35.88	2/19/59						JUN 24-OCT 39ß JAN 40-DATE	APR 45-DEC 46ß APR 47-DATE				
Station located 0.5 mi. above mouth, 4.6 mi. SE of Knights Landing. During low flows this represents combined flows of Sutter Bypass and Reclamation District 1500. During high flows the slough is entirely submerged as it lies within the bypass area. Sharp rises in the Sacramento River cause zero or negative flow. (f)																
SACRAMENTO WEIR SPILL TO YOLO BYPASS																
			280	26.68	2/20/59	118000E	32.8	3/26/28	1831	94150	26-DATE					
See Sacramento River at Sacramento Weir and Sacramento River opposite Sacramento Weir for stage records and locations. Elevation of fixed crest of weir is 25.0 ft. U.S.E.D. datum; elevation of movable crest (top of needles) is 31.0 ft. U.S.E.D. datum. There are 48 gates, each 38 ft. in length. Flow listed is leakage through gates. Gates not opened during year. (f)																
SALT CREEK NEAR BELLA VISTA																
40 39 40	122 11 41	NW 3 32N 3W	1660	5.98	2/16/59	1660	5.98	2/16/59	8077		NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located at U. S. Highway 299 bridge, 2.8 mi. NE of Bella Vista. Tributary to Sacramento River via Little Cow Creek and Cow Creek. (f)																
SAN JOAQUIN RIVER AT ANTIOCH																
38 01 04	121 48 06	SW18 2N 2E		14.9	2/16/59		6.2	12/26/55				JUN 29-DATE	1929	1940	0.00	USED
													1940	1957	2.99	USED
													1940	1957	0.00	USGS
													1957		-9.96	USCGS
													1957		-6.97	USED
Station located on wharf at city water works immediately N of Antioch. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SAN JOAQUIN RIVER AT BRANDT BRIDGE																
37 51 53	121 19 18	NW 9 1S 6E		9.2	2/21/59							JUL 40-DATE	1940	1952	-3.61	USGS
													1952		-3.79	USCGS
Station located on Bowman Road between Roberts Island and Reclamation District 17. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SAN JOAQUIN RIVER NEAR DOS PALOS																
36 59 38	120 30 02					8200		6/ 5/52	5164	914300	OCT 40-DATE	OCT 40-DATE				
Station located 800 ft. below the head of Temple Slough, 6.5 mi. E of Dos Palos. Records furn. by U.S.B.R. Drainage area is approx. 5,630 sq. mi. (f)																

E - Estimated
(s) - Record of stage published
ß - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.& B.M.	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC.-FT	1958 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			C F S.	GAGE HT.	DATE	C F S.	GAGE HT.	DATE					FROM	TO		
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE																
37 18 35	120 55 45			62.28	4/28/59	5910	71.14	4/ 6/58			FEB 37-DATE	APR 37-DATE	1944 1957	1957	-3.73 -3.77	USGS USGS
Station located 150 ft. below Fremont Ford Bridge, 4.5 mi. W of Stevinson, 6.7 mi. above the Merced River. During periods of high flow, some water bypasses station through Mud Slough. Maximum discharge of record is for period 1944 to date. Records furn. by U.S.G.S. Drainage area is approx. 8,090 sq. mi. (s)																
SAN JOAQUIN RIVER AT GRAYSON																
37 33 47	121 09 06	NW25 4S 7E		32.7	2/22/59	23900	45.15	3/ 8/41	411700	3080000	JUL 28-DATE	JUL 28-DATE		1958	0.00	USED
Station located at Laird Slough Bridge, 5 mi. above the Tuolumne River. High flows bypassing this station through old channel of San Joaquin River are included in figures shown. Maximum discharge of record is for period 1939 to date. Records furn. by City of San Francisco. (f)																
SAN JOAQUIN RIVER AT HETCH HETCHY AQUEDUCT CROSSING																
37 38 10	121 12 54	NE32 3S 7E				38400	38.43	4/ 2/40	1034000	5364000	MAR 33-DATE	MAR 33-DATE		1958	0.00	USED
Station located 2.9 mi. above the Stanislaus River. Maximum discharge of record is for period 1939 to date. Records furn. by City of San Francisco. (f)																
SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE																
37 38 28	121 13 37	SW29 3S 7E		23.0E	2/22/59E		39.8	12/ 9/50			JAN 50-MAR 52	SEP 43-DATE	1943 1943		0.00 -3.4	USED USGS
Station located at State Highway 132 bridge, 13 mi. W of Modesto. (s)																
SAN JOAQUIN RIVER NEAR MENDOTA																
36 48 37	120 22 35	SW 7 13S 15E				8840		6/ 1/52	159200	1017000	OCT 39-DATE	OCT 39-DATE				
Station located 2.5 mi. below Mendota Dam, 4 mi. N of Mendota. Records furn. by U.S.B.R. Drainage area is 4,310 sq. mi. (f)																
SAN JOAQUIN RIVER AT MOSSDALE BRIDGE																
37 47 12	121 18 21	SW 3 2S 6E		6.0	2/21/59		24.4	12/10/50				20-DATE	1920 1943 1943	1943	5.16 3.27 0.00	USED USED USGS
Station located below U. S. Highway 50 bridge, 3.0 mi. SW of Lathrop. Station affected by tidal action. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
SAN JOAQUIN RIVER NEAR NEWMAN																
37 21 02	120 58 34	SW 3 7S 9E		4.27	2/19/59	33000	18.50	3/ 7/58			APR 12-DATE	APR 12-DATE	1912		47.24	USGS
Station located at bridge on Hills Ferry Road, 300 ft. below the Merced River, 3.5 mi. NE of Newman. Combine flow with Merced River Slough near Newman to give total flow passing this point. Records furn. by U.S.G.S. Drainage area is 9,990 sq. mi. (s)																
SAN JOAQUIN RIVER AT PATTERSON BRIDGE																
37 29 52	121 04 52	SW15 5S 8E		40.8	2/17/59							APR 38-DATE	1938 1938		0.00 -3.5	USED USGS
Station located at Patterson-Turlock Highway bridge, 3.1 mi. NE of Patterson. (s)																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE					FROM	TO		
SAN JOAQUIN RIVER AT RINDGE PUMP																
37 59 51	121 25 06	NW27 2N 5E		5.2	2/16/59		7.1	12/ /55				JUL 39-DATE	1939 1940 1940	1940	-2.2 0.00 3.0	USED USGS USED
Station located on Rindge Tract at Fourteen Mile Slough near junction with Stockton Ship Channel, 8 mi. NW of Stockton. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SAN JOAQUIN RIVER AT SAN ANDREAS LANDING																
38 06 12	121 35 26	SE13 3N 3E		8.0	2/16/59							MAY 52-DATE	1952		-2.84	USCGS
Station located approx. 1.2 mi. below the Mokelumne River. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SAN JOAQUIN RIVER AT VENICE ISLAND																
38 03 01	121 29 45	NE 2 2N 4E		8.7	2/16/59		10.7	12/26/55				JAN 28-DATE	1928		-3.45	USGS
Station located on Little Connection Slough on Empire Island 0.7 mi. S of Venice Island Ferry. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SAN JOAQUIN RIVER NEAR VERNALIS																
37 40 34	121 15 51			11.92	2/22/59	79000	27.75	12/ 9/50			JUL 22-DEC 23 8 JAN 24-FEB 25 JUN 25-OCT 28 8 MAY 29-DATE	JUL 22-DEC 23 8 JAN 24-FEB 25 JUN 25-OCT 28 8 MAY 29-DATE	1931		8.4	USED
Station located 30 ft. above the Durham Ferry Highway bridge, 3 mi. below the Stanislaus River, 3.4 mi. NE of Vernalis. Records furn. by U.S.G.S. Drainage area is approx. 14. 010 sq. mi. (s)																
SAN JOAQUIN RIVER AT WHITEHOUSE																
36 46 26	120 17 05	NE25 13S 15E							23030	1292000	01-DATE					
Station located 13 mi. below the head of Gravelly Ford Canal. Records furn. by San Joaquin Canal Co. (f)																
SCOTT CREEK NEAR LAKEPORT																
39 03 44	122 56 49	SW14 14N 10W									OCT 48-SEP 53 MAR 59-DATE	OCT 48-DATE	1948		0.00	LOCAL
Station located 100 ft. below Hartley Cemetery Road bridge, 0.8 mi. NW of Lakeport. Prior to April 27, 1959 station located at Hartley Cemetery Road bridge. Tributary to Clear Lake.																
SHASTA LAKE																
40 43 10	122 25 10	NW15 33N 5W							5086000	9122000	NOV 42-DATE	NOV 42-DATE	1942		0.00	USGS
Station located in Shasta Dam, 2 mi. below Squaw Creek, 9.5 mi. N of Redding. Usable capacity, 4,377,000 ac.-ft. between elevations 737.75 and 1,065.0 ft. above mean sea level. Not available for release, 115,700 ac.-ft. Inflow to Shasta Lake takes into account change in storage, release, spill, precipitation, and evaporation, and is representative of the natural flow which would pass the dam site if the dam had not been constructed. Figures shown under total discharge are computed inflow to the reservoir. Period of record for computed inflow is shown under period of record for discharge. Period of record for daily content is shown under period of record for stage. Records furn. by U.S.B.R. Drainage area, excluding Goose Lake Basin, is 6,665 sq. mi.																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. B. R. M.D.B.&M.	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			C F.S.	GAGE HT	DATE	C F.S.	GAGE HT.	DATE					FROM	TO		
SMITHNECK CREEK NEAR LOYALTON																
39 37 52	120 11 54	NW33 21N 16E	30	4.25	2/16/59	702	4.87	12/23/55	5117	12320	JUL 54-DATE	JUL 54-DATE	1954		0.00	LOCAL
Station located 100 ft. W of county road, 4.0 mi. SE of Loyalton. Tributary to Middle Fork Feather River. Stage-discharge relationship at times affected by ice. Drainage area is 31.6 sq. mi. (f)																
SNODGRASS SLOUGH AT TWIN CITIES ROAD BRIDGE																
38 16 37	121 29 45	NW24 5N 4E		6.2	2/21/59		14.4	4/ 4/58				OCT 57-DATE				
Station located on Twin Cities Road (Laurel Lane) bridge, approx. 3 mi. NE of Walnut Grove. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD																
40 18 52	122 26 54	NE 5 28N 5W	5800E	6.30	1/12/59	5800E	6.30	1/12/59			APR 58-DATE	APR 58-DATE	1958		0.00	LOCAL
Station located 70 ft. above highway bridge, 11 mi. SW of Cottonwood. Tributary to Sacramento River via Cottonwood Creek. Drainage area is 218 sq. mi. (f)																
SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR 2																
36 10	119 50	20S 19E							5409	39150						
Station located 1.0 mi. SW of Stratford. So. Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records furn. by Kings River Water Association. (f)																
SOUTH FORK MOKELUMNE RIVER AT NEW HOPE BRIDGE																
38 13 36	121 29 26	NW 1 4N 4E		5.3	2/21/59		13.3	12/25/55				AUG 20-DATE	1920 1940 1940	1940	0.26 0.00 2.84	USED USGS USED
Station located on Staten Island, S of Walnut Grove-Thornton Highway bridge, 3.8 mi. W of Thornton. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
SOUTH FORK PIT RIVER NEAR JESS VALLEY																
41 13 50	120 21 58	NE 9 39N 14E	156	3.67	2/16-17/59E	588	5.17	5/12/58	20280	62700	OCT 57-DATE	OCT 57-DATF	1957		0.00	LOCAL
Station located 2.5 mi. E of West Valley Reservoir control structure, W of Jess Valley, 7.3 mi. E of Likely. Stage-discharge relationship at times affected by ice. Flow listed does not include diversion 50 ft. below station to West Valley Reservoir. (f)																
SOUTH FORK PUTAH CREEK NEAR DAVIS																
38 31 02	121 45 21	NE28 8N 2E	8410	12.93	2/16/59	8410	12.93	2/16/59	21240	42170	OCT 57-DATE	OCT 57-DATE	1957		24.57	USGS
Station located at Low Water Bridge, 0.8 mi. below U. S. Highway 40 bridge, 2.3 mi. SW of Davis. Tributary to Yolo Bypass. (f)																
SOUTH SAN JOAQUIN IRRIGATION DISTRICT DRAIN 11 NEAR MANTECA																
37 45 48	121 16 50	SW14 2S 6E	60E	4.89	9/19/59						JAN 59-DATE	JAN 59-DATE	1959		0.00	LOCAL
Station located 400 ft. E of Walthall Slough, 1.9 mi. SE of junction of State Highway 120 and U. S. Highway 50, 4.3 mi. SW of Manteca. This is drainage returned to San Joaquin River via Walthall Slough. Recorder installed January 29, 1959. (f)																

m E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF DATUM
SOUTH SAN JOAQUIN IRRIGATION DISTRICT MAIN DRAIN AT FRENCH CAMP																
37 52 50	121 15 53	NW 1 1S 6E		10.19	2/23/59						MAR 55-DATE 8	MAR 55-DATE 8	1959		0.00	LOCAL
Station located above culvert, 200 ft. SE of French Camp Road, 0.3 mi. SE of French Camp. This is drainage returned to San Joaquin River via French Camp Slough. Data insufficient to compute flow during periods of backwater from San Joaquin River. Recorder installed March 21, 1955. (f)																
SPANISH CREEK NEAR QUINCY																
39 56 43	121 00 20	NW17 24N 9E	2860E	6.51	1/12/59				60160	165400	AUG 54-DATE	AUG 54-DATE	1956		0.00	LOCAL
Station located on north edge of Bucks Lake Road, 3.2 mi. W of Quincy. Tributary to East Branch North Fork Feather River. Stage-discharge relationship at times affected by ice. Drainage area is 68.4 sq. mi. (f)																
STANISLAUS RIVER NEAR MOUTH																
37 40 02	121 13 41	SW17 3S 7E	1490	19.35	3/ 5/59				218300	1275000	SEP 51-DATE	SEP 51-DATE	1951		1.11	USCGS
Station located 1.9 mi. above mouth, 7.7 mi. SW of Ripon. Backwater from San Joaquin River at times affects the stage-discharge relationship. Prior records available at other sites. (f)																
STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE																
37 47 18	120 45 41	SE 4 2S 11E	1630	5.33	2/26/59	52000	30.05	11/21/50	148400	1046000	JUN 28-DEC 39 8 APR 40-DATE	JUN 28-DEC 39 8 APR 40-DATE			0.00	LOCAL
Station located at bridge, 5.0 mi. E of Oakdale. Flow regulated by reservoirs and power plants. (fs)																
STANISLAUS RIVER AT RIPON																
37 43 50	121 06 35	SE29 2S 8E		43.66	3/ 5/59	62500	63.25	12/24/55			APR 40-DATE	APR 40-DATE	1940		0.00	USGS
Station located 15 ft. below the Southern Pacific Railroad bridge, 1.0 mi. SE of Ripon. Records furn by U.S.G.S. (s)																
STANISLAUS RIVER AT RIVERBANK																
37 44 31	120 56 21	SW24 2S 9E	1660	77.36	3/ 1/59	85800	103.18	12/23/55	188800	1153000	JUL 40-DATE	JUL 40-DATE	1940		0.00	USGS
Station located at Burneyville Bridge, immediately N of Riverbank. (fs)																
STOCKTON DIVERTING CANAL AT STOCKTON																
37 59 01	121 15 09	NW31 2N 7E	2840	11.39	2/11/59	11400E	17.10E	4/ 4/58E	42930		JAN 44-DATE	JAN 44-DATE	1954		0.00	LOCAL
Station located 200 ft. below Waterloo Road bridge, immediately NE of Stockton. This is water diverted from the Calaveras River by Mormon Slough and returned to the river by Stockton Diverting Canal. During high flow periods, overflow from Calaveras River and Duck Creek can be included. (f)																
STOCKTON SHIP CHANNEL AT BURNS CUTOFF																
37 57 46	121 21 54	SW 6 1N 6E		8.2	2/16/59							MAY 40-DATE	1940 1943 1945 1946 1951	1943 1945 1946 1951	-4.22 -4.39 -4.70 -3.00 -3.02	USGS USGS USGS USGS USCGS
Station located on north end of Rough and Ready Island, approx. 0.4 mi. above Burns Cutoff. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																

E - Estimated
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8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT	DATE	C.F.S	GAGE HT.	DATE					FROM	TO		
STONE CORRAL CREEK NEAR SITES																
39 17 18	122 18 00	NW34 17N 4W	1590	12.88	2/16/59	2500E	14.93	4/ 2/58	2062		MAR 58-DATE	MAR 58-DATE	1958		0.00	LOCAL
Station located at Maxwell-Sites Highway bridge, 2.5 mi. SE of Sites, 6 mi. NW of Maxwell. Tributary to Colusa Basin Drain. (f)																
STONY CREEK NEAR HAMILTON CITY																
39 43 25	122 02 47		39900	12.81	2/16/59	39900	18.31	2/25/58			OCT 40-DATE	OCT 40-DATE	1941 1944	1944 1946	188.11 186.61	USED USED
Station located 2.3 mi. SW of Hamilton City, 6 mi. above mouth. Tributary to Sacramento River. Flow regulated by East Park Reservoir and Stony Gorge Reservoir. Flow to Sacramento River is cut off during irrigation season by an earth fill installed by Glenn-Colusa Irrigation District to transport water from their main canal across Stony Creek.. Records furn. by U.S.G.S. Drainage area is 764 sq. mi. (s)																
STONY CREEK AT ST. JOHN																
39 42 35	122 00 07			5.0	2/16/59		13.9	2/28/40				06-DATE			136.9	USED
Station located at State Highway 45 bridge, 2 mi. S of Hamilton City. Records furn. by U.S.W.B. (f)																
STRIPED ROCK CREEK NEAR RAYMOND																
37 20 27	119 53 35	NE 9 7S 19E	102	3.72	2/11/59	1180E	8.87	4/ 3/58	740	10210	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located 8.7 mi. N of Raymond, 11 mi. SE of Mariposa. Tributary to Chowchilla River. Drainage area is 17.1 sq. mi. (f)																
SUISUN BAY AT BENICIA ARSENAL																
38 02 34	122 08 00	SW 6 2N 2W		5.4	1/ 5/59		5.7	4/ 6/58				JUN 29-APR 40 APR 40-DATE	1929 1940 1942	1940 1942	-2.21 -5.00 0.00	USGS USGS USGS
Station located on inshore side of wharf, immediately SE of Benicia. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. Period of record intermittent from 1929-1940. (s)																
SUTTER BYPASS AT LONG BRIDGE																
39 08 46	121 50 31	SE15 15N 1E		48.4	2/19/59		57.7	3/ 1/40				14-DATE			0.00	USED
Station located on west levee, 0.2 mi. N of State Highway 20, 3.9 mi. E of Meridian. Gage heights below 39.0 ft. are not indicative of flow in channel and have not been listed. (s)																
SUTTER BYPASS AT RECLAMATION DISTRICT 1500 PUMPING PLANT																
See Reclamation District 1500 Drainage to Sacramento Slough. (s)																
SUTTER BYPASS AT STATE PUMPING PLANT 1																
38 55 59	121 38 03	NE33 13N 3E										20-DATE			0.00	USED
Staff located on east levee, 3 mi. N of Nelson Slough, 3.6 mi. NW of Nicolaus. Gage read at least twice daily by pump operators. (s)																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued.

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
SUTTER BYPASS AT STATE PUMPING PLANT 2																
39 01 34	121 43 32	SW26 14N 2E										20-DATE			0.00	USED
Staff located on east levee at O'Banion Road, 9.8 mi. SW of Yuba City. Gage read at least twice daily by pump operators. (s)																
SUTTER BYPASS AT STATE PUMPING PLANT 3																
39 07 15	121 46 40	SW29 15N 2E										20-DATE	1920		0.00	USED
Staff located on east levee, 0.7 mi. above Wadsworth Canal, 3.0 mi. SW of Sutter. Gage read at least twice daily by pump operators. (s)																
THOMES CREEK AT PASKENTA																
39 52 55	122 33 05	NW 4 23N 6W		6.82	1/12/59	23500	12.14	12/21/55			OCT 20-DATE	OCT 20-DATE				
Station located 0.3 mi. above highway bridge at Paskenta. Tributary to Sacramento River. Records furn. by U.S.G.S. Drainage area is 188 sq. mi. (s)																
THREEMILE SLOUGH AT SACRAMENTO RIVER																
38 06 18	121 41 57	SE13 3N 2E		5.4	2/16/59		6.7	12/26/55				APR 29-DATE	19	1940	0.00	USED
													1940		0.00	USGS
													1[illegible]4	1959	3.22	USED
													1959		-10.00	USGS
Station located on Sherman Island, 0.1 mi. E of State Highway 24 bridge, 3.6 mi. S of Rio Vista. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
THREEMILE SLOUGH AT SAN JOAQUIN RIVER																
38 05 13	121 41 07	SE19 3N 3E		4.7	2/16/59		5.9	4/ 6/58				JUN 29-DATE	1929	1940	0.00	USED
													1940		0.00	USGS
													1940	1959	2.89	USED
													1959		-10.00	USGS
Station located on Sherman Island, 4.9 mi. S of Rio Vista. Prior to May 25, 1959, station located on Sherman Island, 5.0 mi. S of Rio Vista. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. Maximum of record is maximum recorded stage. Record not complete in December 1955. (s)																
TISDALE BYPASS AT RECLAMATION DISTRICT 1660 PUMPING PLANT																
39 01 44	121 46 53	SE30 14N 2E										JAN 25-DATE			0.00	USED
Staff located on north levee at district drainage pumping plant, 2.1 mi. E of Tisdale Weir, 6.8 mi. SE of Grimes. Gage read twice daily by pump operators. (s)																
TISDALE WEIR SPILL TO SUTTER BYPASS																
39 01 36	121 49 16	NE35 14N 1E	14200	48.63	2/18/59	25700	53.3	3/ 1/40	276600	1656000	JAN 40-DATE	JAN 35-DATE	1935		0.00	USED
Station located W of north end of weir, 5.0 mi. SE of Grimes. See Sacramento River at Tisdale Weir for stage records. Elevation of weir crest is 45.45 ft. U.S.E.D. datum; length of crest is 1,155 ft. Backwater from Sutter Bypass at times affects stage-discharge relationship. Maximum gage height listed does not necessarily indicate maximum discharge. (f)																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
TOM PAINE SLOUGH ABOVE MOUTH																
37 47 27	121 25 03	NW 4 2S 5E		9.5	2/21/59		14.6	12/29/55				JUN 51-DEC 51 APR 53-OCT 53 APR 54-DATE				
Station located 0.1 mi. E of mouth of Sugar Cut, 2.2 mi. above mouth, 2.6 mi. N of Tracy. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
TULARE LAKE																
36 03 10	119 49 35						196.8	6/28/41				FEB 37-DATE	1937		0.00	USGS
Station located 2.2 mi. SW of Chatom Ranch, 6 mi. SW of Corcoran on south end of El Rico bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 180 ft. U.S.G.S. datum. Records furn. by Tulare Lake Basin Water Storage District. (f)																
TULE RIVER BELOW PORTERVILLE																
36 04 40	119 06 22	NW30 21S 27E	510	4.47	2/17/59	5170	8.17	5/19/57	34390	197300	FEB 57-DATE	FEB 57-DATE	1957		0.00	LOCAL
Station located at Rockford Road bridge, 5.1 mi. W of Porterville. Flow at times includes releases from Friant-Kern Canal. (f)																
TUOLUMNE RIVER AT HICKMAN BRIDGE																
37 38 10	120 45 14	NW34 3S 11E	2700	76.42	2/21/59	59000	96.2	12/ 8/50	496900	1660000	JUL 32-OCT 36ᵒ JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE	JUL 32-OCT 36ᵒ JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE	1932		0.00	USGS
Station located at Hickman-Waterford Road bridge, immediately SE of Waterford. (fs)																
TUOLUMNE RIVER AT LA GRANGE BRIDGE																
37 39 59	120 27 40	NW20 3S 14E	2780	171.62	11/30/58	48200	188.0	12/ 8/50	422400	1553000	OCT 36-DATE	OCT 36-DATE	1937		0.00	USGS
Station located at highway bridge, immediately N of La Grange. Flow regulated by reservoirs and power plants. (fs)																
TUOLUMNE RIVER AT MODESTO																
37 37 38	120 59 20	SW33 3S 9E		44.47	2/19/59	57000	69.19	12/ 9/50			JAN 95-DEC 96 MAR 40-DATE	78- 84 91- 97 MAR 40-DATE	1940		0.00	USGS
Station located at U. S. Highway 99 bridge. Records furn. by U.S.G.S. (s)																
TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE																
37 38 08	120 37 03	NW35 3S 12E	2690	111.76	2/22/59	49800	128.2	12/ 8/50	451300	1650000	JUL 28-OCT 36ᵒ JAN 37-FEB 38 JUN 38-DATE	JUL 28-OCT 36ᵒ JAN 37-FEB 38 JUN 38-DATE	1930 1940	1940	106.20 0	USGS USGS
Station located at highway bridge, 7.5 mi. E of Waterford. (fs)																
TUOLUMNE RIVER AT TUOLUMNE CITY																
37 36 12	121 07 50	NW 7 4S 8E		33.3	2/20/59				664800	2254000	30-DATE	30-DATE			0.00	USED
Station located at highway bridge, 3.35 mi. above mouth. Backwater at times affects the stage-discharge relationship. Records furn. by City of San Francisco. (f)																

E - Estimated
(s) - Record of stage published
ᵒ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT.			PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
TURNER CREEK NEAR CANBY																
41 25 53	121 00 34	SE35 42N 8E	158E	6.16	3/ 2/59	158E	6.16	3/ 2/59	3717		MAY 58-DATE	MAY 58-DATE	1958		0.00	LOCAL
Station located 1.4 mi. above mouth, 7.3 mi. W of Canby. Tributary to Pit River. Stage-discharge relationship at times affected by ice. (f)																
WADSWORTH CANAL AT BUTTE HOUSE ROAD																
39 10 01	121 43 39	NE10 15N 2E		52.69	4/26/59		54.75	2/ 8/42	68640	128700	JAN 39-DATE	SEP 29-DATE			0.00	USED
Station located at bridge, 1.2 mi. E of Sutter. Tributary to Sutter Bypass. Backwater from Sutter Bypass at times affects stage-discharge relationship. Maximum gage height listed does not necessarily indicate maximum discharge. This flow and flow of Butte Slough to Sutter Bypass make up entire Feather River contribution to the Sutter Bypass. (fs)																
WEBBER CREEK NEAR SIERRAVILLE																
39 34 06	120 21 47	SE24 20N 14E	103	2.89	2/16/59	583	5.26	12/23/55	18340	38570	AUG 54-SEP 59	JUL 54-SEP 59	1954		0.00	LOCAL
Station located 0.2 mi. W of State Highway 89, 1.4 mi. S of Sierraville. Tributary to Middle Fork Feather River. Importation above station, at times, of flow of Little Truckee River via control structure. Stage-discharge relationship at times affected by ice. Station discontinued September 30, 1959. (f)																
WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA																
37 25 14	119 52 25	SE10 6S 19E	1130	6.71	2/16/59	3590E	8.67	4/ 3/58	3328	25240	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located 15 ft. below Indian Peak Road bridge, 6.7 mi. SE of Mariposa. Drainage area is 33.7 sq. mi. (f)																
WESTLEY WASTEWAY NEAR GRAYSON																
37 33 19	121 10 03	SW26 4S 7E		4.98	8/30/59		4.98	8/30/59	4923		MAR 58-DATE	MAR 58-DATE	1958		0.00	LOCAL
Station located at State Highway 33 bridge, 0.9 mi. SE of Grayson. This is drainage returned to San Joaquin River. Station installed March 7, 1958. (f)																
WILLOW CREEK NEAR ADIN																
41 05 04	120 54 09	SE35 38N 9E	37	1.77	2/16/59				4183	10320	29-SEP 57δ SEP 57-DATE	29-SEP 57δ SEP 57-DATE	1957		0.00	LOCAL
Station located W of Adin-Susanville Highway, 8.2 mi. SE of Adin. Tributary to Pit River via Ash Creek. Stage-discharge relationship at times affected by ice. (f)																
WOLF CREEK AT GREENVILLE																
40 08 20	120 56 30	SW 2 26N 9E	1280E	5.63	2/16/59				20280	65360	AUG 54-SEP 59	AUG 54-SEP 59	1956		0.00	LOCAL
Station located 50 ft. above State Highway 89 bridge, immediately E of Greenville. Tributary to East Branch North Fork Feather River. Stage-discharge relationship at times affected by ice. Station discontinued September 30, 1959. (f)																
WOLF CREEK NEAR WOLF																
39 02 41	121 06 32	SE20 14N 8E	2430E	14.53	2/16/59				37540	116000	MAY 57-DATE	MAY 57-DATE	1957		0.00	LOCAL
Station located 0.8 mi. W of State Highway 49, 1.9 mi. SE of Wolf. Tributary to Bear River. Drainage area is approx. 76 sq. mi. (f)																

E - Estimated δ - Irrigation season only # - Flood season only
(s) - Record of stage published (f) - Record of flow published

TABLE 24

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1958-59 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T.& R. M.D.B.&M.	C.F.S.	GAGE HT	DATE	C.F.S	GAGE HT.	DATE	1958-59 WATER YR IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
YOLO BYPASS AT LIBERTY ISLAND																
38 19 15	121 40 00	SW32 6N 3E		11.7	2/21/59		18.4	2/ 8/42				18-DATE	1918		0.00	USED
Station located on east levee of Liberty Island approx. 3 mi. N of Prospect Slough, 5.3 mi. N of Courtland. Station affected by tidal action. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
YOLO BYPASS AT LINDSEY SLOUGH																
38 14 45	121 42 26	SW24 5N 2E		8.9	2/21/59		16.1	2/ 8/42				JAN 41-DATE	1941 1941		-2.92 0.0	USGS USED
Station located at California Packing Corporation Headquarters, 6.2 mi. N of Rio Vista. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
YOLO BYPASS AT LISBON																
38 28 30	121 35 14	SE 1 7N 3E		17.1	2/20/59		23.4	12/24/55				14-DATE			0.00	USED
New station located 0.1 mi. N of east end of Sacramento Northern Railway trestle, 5.2 mi. NW of Clarksburg. Old station located 0.1 mi. below east end of Sacramento Northern Railway trestle, 4.9 mi. NW of Clarksburg. Station affected by tidal action. Maximum gage height listed does not necessarily indicate maximum discharge. Stages for both locations published for correlation purposes. Recorder installed at new location February 19, 1959.																
YOLO BYPASS ABOVE SACRAMENTO BYPASS																
38 35 59	121 35 23	NE25 9N 3E		19.5	2/20/59		26.9	12/24/55				25-DATE	1925 1925		-3.07 0.00	USGS USED
Station located at intersection of east levee of Yolo Bypass and north levee of Sacramento Bypass, 5.6 mi. NW of Sacramento. (s)																
YOLO BYPASS NEAR WOODLAND																
38 40 40	121 38 35	SE28 10N 3E		26.15	2/20/59	27200	32.00	2/ 8/42			MAR 30-OCT 38δ JAN 39-DATE	40- 41# 41-DATE	1930 1941	1941	0.73 0.00	USED USED
Station located just above the Sacramento-Woodland Railroad bridge, 6 mi. above the Sacramento Bypass, 7 mi. E of Woodland. Supplementary water-stage recorder located in Tule Canal, 1.0 mi. below Sacramento Bypass, 6 mi. below the upper station. Flow referred to the recorder in the Tule Canal below Sacramento Bypass except during periods of high water when it is referred to the recorder above Sacramento-Woodland Railroad bridge. To get total flow through Yolo Bypass below Sacramento combine with Sacramento Weir and Putah Creek near Davis. Flow includes Cache Creek at Yolo, Ridge Cut at Knights Landing, and Fremont Weir. Records furn. by U.S.G.S. (s)																
YUBA RIVER AT ENGLEBRIGHT DAM																
39 14 22	121 16 00	SE14 16N 6E	16700		2/16/59	148000		12/23/55			OCT 41-DATE	NOV 41-DATE	1941 1958	1958	526.99 0.00	USGS USGS
Station located above spillway of Englebright Dam, 1.0 mi. above Deer Creek, 2.5 mi. NE of Smartville. Flow regulated by Lake Spaulding, Englebright Reservoir, Bowman Lake, Fordyce Lake, and many smaller reservoirs. Records given herein show total flow over Englebright Dam spillway and through and past power plant. For total flow of Yuba River near Smartville combine with flows of Deer Creek near Smartville. Records furn. by U.S.G.S. Drainage area is 1,104 sq. mi. (s)																
YUBA RIVER NEAR MARYSVILLE																
39 10 35	121 31 25			69.50	2/17/59						39- 45δ APR 45-DATE	AUG 54-SEP 55 OCT 57-DATE	1939		0.00	USED
Station located 4.2 mi. NE of Marysville, 5 mi. below Dry Creek. Prior to September 30, 1957 at site 4.2 mi. downstream. Records furn. by U.S.G.S. Drainage area is 1,335 sq. mi. (s)																

E - Estimated
(s) - Record of stage published
δ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 25

GAGING STATION
ADDITIONS AND DELETIONS

Central Valley Area

New Stations

Bear River near Colfax
Big Creek Diversion near Fishcamp
Burkhardt Drain near Grayson
Burns Creek at Hornitos
Butte Creek near Durham
Clover Creek near Upper Lake
Del Puerto Creek near Grayson
Drain at Head of Firebaugh Wasteway near Firebaugh
Elk Bayou near Tulare
Hat Creek near Cassel
Helm Ranch Drain near Firebaugh
Little Chico Creek Diversion near Chico
Little Chico Creek near Chico
Maxwell Creek at Coulterville
Middle Creek near Upper Lake
Mokelumne River near Thornton
Newman Wasteway near Newman
North Fork Merced River near Coulterville
North Fork Mill Creek near Los Molinos
Orestimba Creek near Crows Landing
Panoche Drain near Dos Palos
Sacramento River near Mount Shasta
Scott Creek near Lake Port
South San Joaquin I. D. Drain II near Manteca
South San Joaquin I. D. Main Drain at French Camp
Westley Wasteway near Grayson
Yolo Bypass at Lisbon (New station)

Stations Dropped

Antelope Creek near mouth
Deer Creek at Highway 99E
Duck Creek at Farmington
* Mill Creek near mouth
* Natomas Cross Canal at head
North Fork Mill Creek near mouth
Tule River at Turnbull Station

* Record available for flood season. (data not published)

Publication of Stream Flow Discontinued on the Following Stations
(See U. S. Geological Survey water supply paper for stream flow publication)

(a) American River at Fair Oaks
(a) Antelope Creek near Red Bluff
(a) Battle Creek near Cottonwood
Bear Creek near Lockford
(a) Bear River near Wheatland
(a) Big Chico Creek near Chico
(a) Butte Creek near Chico
Cache Creek near Capay
(a) Cache Creek at Yolo
(a) Calaveras River at Jenny Lind
Chowchilla River at Buchanan Dam Site
(a) Clear Creek near Igo
(a) Cosumnes River at McConnell
(a) Cosumnes River at Michigan Bar
(a) Cottonwood Creek near Cottonwood

(a) Stage record published. (See alphabetical index)

TABLE 25

GAGING STATION
ADDITIONS AND DELETIONS (contd.)

Publication of Stream Flow Discontinued on the Following Stations (contd.)
(See U. S. Geological Survey water supply paper for stream flow publication)

Cow Creek near Millville
Deer Creek near Smartville
(a) Deer Creek near Vina
Dry Creek near Galt
Dry Creek at Virginia Ranch
(a) Dry Creek near Wheatland
Elder Creek at Gerber
(a) Feather River at Nicolaus
(a) Feather River near Oroville
Fresno River near Daulton
Kaweah River near Three Rivers
Kings River at Piedra
Little Dry Creek at mouth near Friant
Merced River at Exchequer
Merced River near Stevinson
Merced River Slough near Newman
(a) Mill Creek near Los Molinos
(a) Mokelumne River near Clements
Mokelumne River at Lancha Plana
(a) Mokelumne River at Woodbridge
Orestimba Creek near Newman
Paynes Creek near Red Bluff
Putah Creek near Davis
(a) Putah Creek near Winters
(a) Sacramento River at Butte City
(a) Sacramento River at Colusa
(a) Sacramento River at Keswick
(a) Sacramento River at Knights Landing
(a) Sacramento River near Red Bluff
(a) Sacramento River at Verona
(a) Sacramento River below Wilkins Slough
Salt Slough near Los Banos
San Joaquin River near Biola
(a) San Joaquin River at Fremont Ford Bridge
San Joaquin River below Friant
(a) San Joaquin River near Newman
(a) San Joaquin River near Vernalis
South Honcut Creek near Bangor
Stanislaus River below Melones Power House
(a) Stanislaus River at Ripon
Stony Creek at Black Butte Dam Site near Orland
(a) Stony Creek near Hamilton City
(a) Tomes Creek at Paskenta
Tule River near Worth Bridge near Porterville
Tule River near Porterville
Tuolumne River above La Grange Dam near La Grange
(a) Tuolumne River at Modesto
(a) Yolo Bypass near Woodland
(a) Yuba River at Englebright Dam
(a) Yuba River at Marysville

(a) Stage record published. (See alphabetical index)

TABLE 26

DAILY MEAN DISCHARGE
SACRAMENTO RIVER NEAR MOUNT SHASTA

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								494	206	76	44	44
2								413	216	73	44	45
3								373	209	72	43	44
4								332	203	68	43	45
5								332	209	68	42	45
6								336	206	68	42	43
7								368	184	67 E	42	42
8								393	170	67 E	41	44
9								398	156	68 E	43	47
10								398	151	70 E	43	48
11								423	140	70 E	43	47
12								501	135	72 E	44	45
13								568	133	70 E	45	44
14								587	124	70 E	42	48
15								439	119	70 E	43	50
16								359	113	68 E	44	52
17								332	108	57 E	42	52
18								293	104	52 E	41	141
19								262	104	49 E	43	89
20								247	104	48 E	49	76
21								243	104	45 E	53	72
22							489	240	94	44 E	48	67
23							555	251	92	44 E	47	65
24							676	258	92	44 E	47	65
25							862	251	94	43 E	47	64
26							727	251	94	44 E	45	65
27							561	229	92	44 E	44	64
28							524	216	89	45 E	45	65
29							537	200	85	44 E	45	65
30							549	200	81	44 E	45	64
31								200		43	44	
Mean								335	134	58.3	44.3	58.2
Ac-Ft								20610	7956	3584	2723	3465

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 27

DAILY MEAN DISCHARGE
SOUTH FORK PIT RIVER NEAR JESS VALLEY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	27	32	32	31 E	29 E	9.0	37	56	46	17	10	5.3
2	24	32	33	29 E	28 E	7.7	45	57	40	15	10	5.3
3	19	32	33	27 E	27 E	6.4	49	52	40	13	8.6	5.3
4	21	32	34	26 E	25 E	5.3	58	49	36	13	8.6	5.3
5	22	32	32	27 E	24 E	5.3	76	56	40	13	8.6	5.6
6	22	32	32	28 E	23 E	4.9	69	75	44	13	7.7	5.6
7	24	33	33	29 E	22 E	5.3	56	56	44	14	6.8	5.3
8	25	33	38	29	22 E	4.9	53	49	42	14	6.8	5.3
9	24	33	38	37	21 E	4.2	54	67	37	12	5.6	5.3
10	25	44	35	37	21 E	4.2	53	54	34	10	4.2	5.3
11	25	36	35	35	21 E	3.9	54	47	27	10	4.6	5.3
12	25	35	36	45	20 E	5.6	57	40	29	10	4.9	5.6
13	25	37	32	54	22 E	7.2	54	40	25	10	4.9	6.4
14	26	40	32	38	27 E	6.4	46	51	25	10	4.9	7.2
15	26	36 E	29	35	37 E	5.6	44	56	26	11	4.9	7.7
16	27	36 E	29	35	72 E	5.6	43	48	26	12	5.3	8.1
17	26	39 E	29	33	70 E	3.9	42	61	25	11	4.9	8.6
18	28	47	29	28 E	50 E	21	40	72	25	13	4.9	8.6
19	35	51	28	23 E	48 E	31	38	61	25	17	5.3	8.1
20	35	45	28	22 E	41	31	38	51	23	16	9.5	8.6
21	34	41	32	23 E	35	33	36	47	22	15	9.0	10
22	34	39	29	26 E	35	33	36	45	20	14	7.2	10
23	34	37	28	29	35	34	35	57	19	14	6.8	9.5
24	34	37	29	35	30	35	34	71	18	13	6.0	9.5
25	33	36	31	37	19	33	35	54	17	13	6.0	10
26	34	36	33	35	14	35	40	72	21	12	5.6	12
27	34	35	41	35	11	32	42	79	39	11	5.6	13
28	33	33 E	36	34	9.0	33	43	77	23	11	5.6	12
29	32	33 E	34 E	33		33	40	68	20	12	5.6	14
30	30	31 E	32	32		34	35	60	18	12	5.6	15
31	31		31 E	30		33		53		10	5.3	
Mean	28.2	36.5	32.4	32.2	29.9	17.6	46.1	57.5	29.2	12.6	6.4	8.1
Ac-Ft	1734	2172	1989	1978	1662	1084	2741	3533	1738	776	395	482

E — Estimated NR — No Record Total Discharge in Acre-Feet 20280

TABLE 28

DAILY MEAN DISCHARGE
PINE CREEK NEAR ALTURAS

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	15	12	13	11	13	11	24	18	16	7.7	7.7
2	14	15	12	13		12	13	23	18	16	7.7	7.7
3	15	15	13			12	14	22	18	16	7.7	7.7
4	14	15	13		10 E	11	15	21	18	15	7.7	7.7
5	14	15	12	14 E		11	15	22	20	15	7.0	7.7
6	14	15	12			11	15	21	23	15	6.4	7.7
7	14	16	13		10	12	15	21	23	14	5.9	7.7
8	14	15	14	14		11	15	20	24	14	5.9	7.7
9	14	15	14	15		11	15	23	26	13	5.9	7.0
10	14	19	14	15		10	15	21	27	12	5.9	7.0
11	14	16	14	14	10 E	10	16	19	27	12	5.3	7.0
12	14	15	14	17		10	17	19	25	12	5.3	7.0
13	14	16	13	15		11	16	19	25	12	5.3	7.0
14	14	15	12	13		10	15	20	25	13	5.3	7.7
15	22	23	12	13		11	15	20	24	13	5.3	8.9
16	24	32	13	12	35	12	15	19	24	12	5.3	8.3
17	15	67	13	12	20 E	12	15	22	23	12	5.3	7.7
18	15	37	13	12	14 E	12	15	23	23	11	5.3	8.3
19	16	18	13	11	15	12	15	23	23	12	5.3	8.3
20	15	16	13	10	15	12	17	22	23	12	12	8.3
21	15	15	15	21	13	12	18	22	22	12	10	7.7
22	15	14	12	15	16	12	18	22	21	11	8.9	7.0
23	15	13	15	12	15 E	12	20	22	20	12	8.3	7.7
24	15	13	14	12	13 E	12	20	21	19	12	8.3	7.7
25	15	13	15	12	13 E	11	20	21	20	10	8.3	7.7
26	15	12	15	12	12	12	20	25	22	10	8.9	8.3
27	15	12	17	12	12	11	19	23	22	9.6	7.7	7.7
28	15	12	15	12	12	11	20	22	19	9.6	7.7	7.7
29	15	13	14	12	—	10	20	20	18	8.9	7.7	7.7
30	15	12	15	12	—	11	21	20	18	8.3	7.0	7.7
31	15	—	13	12	—	10	—	19	—	8.3	7.0	—
Mean	15.2	18.0	13.5	13.3	12.7	11.3	16.5	21.3	21.9	12.2	7.0	7.7
Ac-Ft	932	1069	831	819	706	694	982	1311	1305	751	431	458

E — Estimated NR — No Record

Total Discharge in Acre-Feet 10290

TABLE 29

DAILY GAGE HEIGHT*
BIG SAGE RESERVOIR NEAR ALTURAS

In feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20.65	20.00	20.00	20.10	20.30	20.90	20.85	20.25	19.70	18.75	17.55	16.10
2	20.65	20.00	20.00	20.10	20.30	20.95	20.85	20.25	19.70	18.70	17.50	16.05
3	20.60	20.00	20.00	20.10	20.30	20.95	20.85	20.25	19.65	18.60	17.45	15.95
4	20.60	20.00	20.00	20.10	20.30	20.95	20.85	20.20	19.65	18.55	17.40	15.90
5	20.55	19.95	20.00	20.10	20.30	20.95	20.85	20.20	19.65	18.50	17.35	15.85
6	20.50	19.95	20.00	20.10	20.30	20.95	20.85	20.20	19.65	18.40	17.25	15.75
7	20.50	19.95	20.00	20.10	20.30	20.95	20.85	20.15	19.60	18.35	17.20	15.70
8	20.45	19.95	20.00	20.10	20.30	20.95	20.80	20.15	19.60	18.35	17.15	15.65
9	20.40	19.95	20.00	20.10	20.35	20.90	20.80	20.15	19.55	18.30	17.10	15.55
10	20.40	20.00	20.00	20.10	20.35	20.90	20.80	20.10	19.50	18.25	17.05	15.50
11	20.40	20.00	20.00	20.10	20.35	20.90	20.80	20.10	19.50	18.25	16.95	15.45
12	20.35	20.00	20.00	20.15	20.35	20.90	20.80	20.05	19.45	18.20	16.90	15.45
13	20.35	20.00	20.00	20.20	20.35	20.90	20.75	20.05	19.45	18.20	16.85	15.40
14	20.30	20.05	20.00	20.20	20.35	20.90	20.75	20.05	19.40	18.15	16.80	15.40
15	20.30	20.05	20.00	20.20	20.35	20.90	20.75	20.00	19.35	18.15	16.70	15.35
16	20.25	20.05	20.00	20.20	20.40	20.90	20.70	20.00	19.35	18.10	16.65	15.35
17	20.25	20.05	20.00	20.20	20.45	20.90	20.70	19.95	19.30	18.05	16.60	15.30
18	20.25	20.05	20.00	20.20	20.50	20.90	20.70	19.95	19.30	18.05	16.55	15.30
19	20.25	20.05	20.00	20.20	20.55	20.85	20.65	19.95	19.25	18.00	16.50	15.30
20	20.20	20.05	20.00	20.20	20.65	20.85	20.65	19.90	19.25	17.95	16.45	15.30
21	20.20	20.05	20.05	20.20	20.70	20.85	20.60	19.90	19.20	17.95	16.40	15.25
22	20.15	20.05	20.05	20.20	20.75	20.85	20.55	19.85	19.20	17.90	16.40	15.25
23	20.15	20.05	20.05	20.20	20.80	20.85	20.55	19.85	19.15	17.85	16.35	15.20
24	20.15	20.05	20.00	20.20	20.80	20.85	20.50	19.85	19.10	17.85	16.35	15.20
25	20.10	20.05	20.05	20.25	20.85	20.85	20.45	19.85	19.05	17.80	16.30	15.20
26	20.10	20.05	20.00	20.25	20.85	20.85	20.40	19.85	19.00	17.75	16.30	15.15
27	20.10	20.05	20.10	20.25	20.85	20.85	20.35	19.80	18.95	17.75	16.25	15.15
28	20.05	20.00	20.10	20.30	20.90	20.85	20.35	19.80	18.90	17.70	16.20	15.15
29	20.05	20.00	20.10	20.30	—	20.85	20.30	19.80	18.85	17.65	16.15	15.10
30	20.00	20.00	20.10	20.30	—	20.85	20.25	19.75	18.80	17.60	16.15	15.10
31	20.00	—	20.10	20.30	—	20.85	—	19.75	—	17.55	16.10	—

TABLE 30

DAILY MEAN DISCHARGE
PIT RIVER BELOW ALTURAS

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	108	120	71	97	99	107	77	43 E	80	39 E	75	31
2	107	101	76	84	89	107	73	46 E	78	39 E	92	94
3	127	88	79	74	78	102	60	73 E	65	39 E	86	98 E
4	134	92	80	85	80	90	26	96 E	55	39 E	79 E	100 E
5	138	104	79	62	84	79	40	77 E	49	39 E	79 E	101 E
6	142	95	64	77	83	77	92	75 E	56	39 E	79 E	102 E
7	139	101	60	102	88	77	86	91 E	56 E	39 E	80 E	104 E
8	126	87	64	108	92	73	64	81 E	55 E	39 E	80 E	104
9	109	81	69	110	82	69	59	65 E	55 E	39 E	82 E	104
10	110	96	66	119	70	67	47	53 E	55 E	39 E	80	95
11	120	110	64	119	91	63	36	44 E	55 E	39 E	81 E	36
12	120	110	55	110	84	62	37	24 E	55 E	40 E	82 E	28
13	122	94	53	137	71	63	54	21 E	56 E	40 E	87	34
14	116	101	45	135	68	66	41	30 E	56 E	40 E	91	35
15	109	108	43	114	81	63	32	43 E	56 E	40 E	94	25
16	112	100	40	107	132	64	22	36 E	64	40 E	95 E	25
17	116	98	43	99	298	63	17	71 E	63	40 E	94 E	32
18	120	101	45	92	289	58	14	71 E	52	40 E	94 E	45
19	137	116	52	88	258	53	21	66 E	45	38	89	45
20	171	131	65	81	275	55	32	87 E	38	46	60	74
21	162	122	77	70	211	50	99	85 E	36	76	45	76
22	140	106	94	78	210	48	107 E	79 E	36	90	32	71
23	133	105	87	89	163	52	98 E	99 E	39	94	35	70
24	140	92	96	88	134	59	89 E	154 E	40 E	88	36	56
25	166	90	107	105	119	46	81 E	149 E	40 E	79	33	46
26	185	120	104	110	107	54	73 E	87 E	39 E	72	32	42
27	182	179	159	108	102	54	64 E	127 E	39 E	79	32	41
28	138	150	181	113	104	50	64 E	107 E	38 E	84	34	43
29	133	77	140	115		55	51 E	98 E	38 E	84	35	44
30	127	72	129	101		66	50 E	92 E	39 E	79	32	48
31	127		120	104		81		68 E		76	32	
Mean	133	105	80.9	99.4	130	66.9	57.0	75.4	50.9	54.6	66.4	61.6
Ac-Ft	8164	6242	4973	6111	7224	4112	3390	4637	3031	3360	4080	3667

E — Estimated NR — No Record

Total Discharge in Acre-Feet 58990

TABLE 31

DAILY MEAN DISCHARGE
TURNER CREEK NEAR CANBY

In second feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.6	0.8	1.3	6.5 E	104	8.1	2.3	1.2	0.5	0.2	0.2
2	0.5	0.7	0.9	1.1 E	4.0 E	111	7.4	3.4	1.0	0.4	0.2	0.2
3	0.5	0.7	1.0	0.8	4.0 E	99	7.2	2.3	1.0	0.4	0.2	0.2
4	0.5	0.7	1.0	0.9	3.7 E	69	6.5	1.7	0.9	0.4	0.2	0.2
5	0.5	0.7	0.9	1.3	3.1 E	54	5.7	1.7	0.9	0.4	0.2	0.2
6	0.5	0.7	0.9	1.3	3.0 E	45	4.9	2.0	1.0	0.4	0.2	0.2
7	0.5	0.7	1.0	1.3	2.8	35	4.2	1.5	0.8	0.4	0.2	0.2
8	0.5	0.7	1.0	2.0	2.8	26	3.7	1.3	0.7	0.4	0.2	0.2
9	0.5	0.8	1.1	14	3.4	19	3.4	1.3	0.7	0.4	0.2	0.2
10	0.5	1.4	1.0	12		14	3.1	1.2	0.6	0.3	0.2	0.2
11	0.6	0.8	1.0	13		11	2.6	1.1	0.6	0.3	0.2	0.2
12	0.6	0.7	1.0	96		10	2.2	0.9	0.6	0.2	0.2	0.2
13	0.5	1.0	0.9	45	3.0 E	10	2.0	0.8	0.5	0.2	0.2	0.2
14	0.5	1.3	0.9	20		7.9	1.8	0.9	0.5	0.2	0.2	0.5
15	0.5	1.1	0.9	14		6.7	1.6	1.0	0.5	0.2	0.2	0.4
16	0.5	0.9	0.9	8.4		6.5	1.5	0.9	0.5	0.2	0.2	0.3
17	0.5	0.9	1.0	5.7	11	6.7	1.4	1.0	0.5	0.2	0.2	0.3
18	1.1	0.9	1.1	4.2	12	6.5	1.3	1.0	0.4	0.2	0.2	0.7
19	1.2	1.2	1.1	3.1	19	5.9	1.3	1.0	0.4	0.2	0.2	0.8
20	0.8	1.3	1.1	2.7	27	5.1	1.3	0.9	0.5	0.2	0.3	0.5
21	0.7	1.1	1.3	2.5 E	34	5.5	1.3	0.8	0.4	0.2	0.3	0.4
22	0.6	1.0	1.2	2.2	36	5.7	1.2	0.8	0.4	0.2	0.3	0.4
23	0.6	0.9	1.0	2.3	35	7.9	1.1	1.1	0.3	0.2	0.3	0.3
24	0.6	1.0	1.3	3.1	36	12	1.0	1.1	0.4	0.2	0.3	0.3
25	0.6	0.9	1.5	6.5	38	12	1.1	2.2	0.5	0.2	0.3	0.3
26	0.6	0.9	2.0	15	38	13	2.0	7.6	0.8	0.2	0.3	0.4
27	0.6	0.8	3.4	23	50	10	2.2	4.9	0.9	0.2	0.3	0.4
28	0.6	0.8	2.0	37	80	9.1	1.6	2.4	0.6	0.2	0.2	0.4
29	0.6	0.8	1.4	20	—	8.9	1.3	1.8	0.5	0.2	0.2	0.4
30	0.6	0.8	1.3	13	—	10	1.3	1.5	0.5	0.2	0.2	0.4
31	0.6	—	1.3	9.7	—	9.9	—	1.3	—	0.2	0.2	—
Mean	0.6	0.9	1.2	12.3	16.8	24.4	2.8	1.7	0.6	0.3	0.2	0.3
Ac-Ft.	36	53	74	758	933	1500	169	107	38	16	14	19

E — Estimated NR — No Record

Total Discharge in Acre-Feet 3717

TABLE 32

DAILY MEAN DISCHARGE
RUSH CREEK NEAR ADIN

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.9	4.6	5.2	5.5	7.8	52	12	6.1	3.9	3.0	2.8	2.2
2	3.9	4.6	5.2	5.2	6.1	48	12	6.1	3.9	3.0	2.6	2.4
3	3.9	4.6	5.2	3.9	6.1	38	13	5.8	3.6	3.0	2.6	2.4
4	3.6	4.6	5.5	4.4	6.4	30	13	5.5	3.4	3.0	2.8	2.4
5	3.6	4.6	5.5	5.8	6.1	27	13	5.8	3.4	3.0	2.8	2.4
6	3.6	4.9	5.5	5.5	6.1	24	12	5.8	3.4	3.0	2.6	2.4
7	3.6	4.9	5.8	5.2	6.1	21	11	5.5	3.2	3.0	2.6	2.4
8	3.6	4.9	5.8	6.1	5.8	19	9.8	5.2	3.2	3.0	2.6	2.6
9	3.6	5.2	5.8	18	5.8	17	9.0	5.5	3.2	3.0	2.6	2.4
10	3.6	6.4	5.5	12	5.8	16	8.2	5.2	3.2	2.8	2.4	2.2
11	3.9	5.5	5.5	9.4	5.8	15	7.8	5.2	3.2	3.0	2.2	2.2
12	3.9	5.2	5.5	26	4.6 E	15	7.5	4.9	3.0	2.8	2.4	2.4
13	3.9	5.5	5.5	16	5.5	16	7.1	4.9	3.0	2.8	2.2	2.4
14	3.9	5.8	5.2	9.0	5.8	13	6.8	5.2	3.0	2.8	2.2	3.0
15	3.9	5.5	5.5	7.8	5.8	12	6.4	5.2	3.0	2.8	2.2	3.0
16	3.9	4.9	5.2	6.8	12	12	6.1	5.2	3.0	2.8	2.2	2.8
17	3.9	4.9	5.5	6.1	20	12	5.2	5.2	2.8	2.8	2.2	2.8
18	4.6	5.5	5.5	5.8	19	12	5.2	4.9	2.8	3.2	2.4	3.4
19	4.6	5.8	5.5	5.5	21	11	4.6	4.9	2.8	3.0	2.2	3.0
20	4.4	5.5	5.5	4.9	21	9.8	4.9	4.6	2.8	2.8	2.8	3.0
21	4.4	5.2	5.8	4.9	20	9.8	4.9	4.6	2.8	2.8	2.8	3.0
22	4.6	5.2	5.8	5.2	22	9.8	4.9	4.6	2.8	2.8	2.6	2.8
23	4.6	5.2	5.5	4.9	19	10	4.9	4.9	2.8	2.8	2.6	2.8
24	4.6	5.2	5.8	6.8	18	11	4.9	4.9	2.8	2.8	2.6	3.0
25	4.4	5.2	5.8	9.0	19	9.8	5.2	4.6	3.0	2.8	2.6	3.0
26	4.6	5.2	6.4	12	19	12	6.1	4.6	3.2	2.8	2.4	3.2
27	4.6	5.2	7.5	17	32	9.8	5.8	4.9	3.4	2.8	2.4	3.0
28	4.4	4.9	6.4	25	45	9.8	5.5	4.6	3.2	2.8	2.2	3.0
29	4.4	4.9	5.8	12		9.4	5.2	4.9	3.2	2.6	2.2	3.0
30	4.4	4.9	5.8	9.8		13	5.5	4.4	3.2	2.6	2.2	3.0
31	4.4		5.8	8.2		12		4.1		2.6	2.2	
Mean	4.1	5.2	5.7	9.2	13.4	17.3	7.6	5.1	3.1	2.9	2.5	2.7
Ac-Ft.	252	306	349	563	747	1064	451	313	187	176	151	162

E — Estimated NR — No Record Total Discharge in Acre-Feet 4721

TABLE 33

DAILY MEAN DISCHARGE
ASH CREEK AT ADIN

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	31	32	37	43	123	46	27	21	15	25	11
2	27	32	33	32	33	116	45	34	20	16	25	12
3	27	32	33	33 E	32	102	47	34	17	16	24	12
4	25	32	33	33 E	33	85	51	33	14	16	24	13
5	25	33	36	34	33	81	59	28	16	16	21	15
6	25	31	35	32	33	77	64	35	25	17	21	16
7	23	32	34	31	33	72	56	29	25	18	21	15
8	24	33	34	44	29	66	50	27	21	17	22	14
9	24	37	37	85	27	63	49	29	18	17	21	15
10	25	50	36	57	28	58	46	29	19	17	21	15
11	25	38	35	47	29	54	43	27	17	17	9.5	14
12	25	35	34	83	31 E	56	40	23	17	17	17	15
13	25	38	34	72	31 E	57	38	20	16	18	19	16
14	26	50	32	44	31 E	51	36	20	15	17	22	20
15	25	47	31	37	31	49	34	17	15	19	24	21
16	27	36	32	35	255	47	34	22	15	20	22	20
17	28	38	32	33	160	47	33	23	17	19	20	21
18	35	42	31	31	119	46	32	24	17	19	23	27
19	36	47	31	28	171	43	31	24	17	27	19	25
20	36	51	31	26	126	40	29	23	15	33	18	24
21	33	37	34	25	107	42	29	21	17	27	14	23
22	32	33	35	27	145	43	29	20	15	25	14	22
23	31	33	33	27	97	46	29	27	14	26	14	20
24	31	33	33	53	81	51	28	32	16	25	16	21
25	31	32	36	90	77	49	29	27	17	24	15	21
26	31	33	40	91	80	52	28	28	23	24	10	22
27	31	33	64	81	89	46	33	34	26	28	4.2	23
28	31	32	52	151	114	44	31	29	20	27	7.1	22
29	31	31	40	69		44	26	27	17	26	10	22
30	31	32	38	59		57	19	25	17	26	10	24
31	31		38	51		52		24		25	9.5	
Mean	28.5	36.5	35.8	50.9	74.9	60.0	38.1	26.5	18.0	21.1	17.5	18.7
Ac-Ft.	1751	2170	2200	3130	4161	3687	2269	1630	1069	1297	1076	1113

E — Estimated NR — No Record Total Discharge in Acre-Feet 25550

TABLE 34

DAILY MEAN DISCHARGE
BUTTE CREEK NEAR ADIN

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	0.7	0.7	1.1	0.5	1.6	1.1	0.6	0.8	0.5	0.4	0.4
2	1.0	0.7	0.7	1.1	0.5	1.4	1.1	0.5	0.8	0.5	0.4	0.4
3	1.0	0.7	0.8	1.2	0.5	1.3	1.1	0.5	0.7	0.6	0.4	0.4
4	1.0	0.7	0.8	1.0	0.5	1.3	1.1	0.4	0.7	0.5	0.4	0.4
5	1.0	0.6	0.8	1.1	0.4	1.3	1.1	0.4	0.7	0.5	0.5	0.2
6	1.1	0.6	0.8	1.0	0.4	1.2	1.0	0.6	0.7	0.5	0.5	0.2
7	1.0	0.6	0.8	0.9	0.4	1.1	1.0	0.4	0.7	0.6	0.5	0.2
8	0.9	0.6	0.8	1.0	0.4	1.2	1.0	0.5	0.7	0.6	0.5	0.2
9	0.9	0.7	0.9	1.3	0.4	1.1	1.0	0.6	0.7	0.5	0.5	0.2
10	0.9	0.9	0.7	1.1	0.4	1.0	1.0	0.6	0.7	0.4	0.4	0.2
11	0.9	0.7	0.7	1.0	0.4	1.1	1.0	0.6	0.5	0.4	0.1	0.3
12	0.8	0.7	0.7	1.0	0.4E	1.1	1.0	0.4	0.2	0.4	0	0.2
13	0.7	0.8	0.7	1.0	0.3E	1.2	0.8	0.4	0.1	0.4	0	0.3
14	0.7	0.9	0.7	1.0	0.4	1.1	0.4	0.4	0.2	0.4	0	0.4
15	0.6	0.9	0.7	0.9	0.3	1.1	0.4	0.6	0.2	0.3	0	0.4
16	0.6	0.8	0.7	0.9	4.7	1.1	0.4	0.5	0.2	0.3	0	0.5
17	0.6	0.8	0.6	0.8	1.6	1.1	0.4	0.6	0.2	0.3	0	0.5
18	0.8	0.8	0.6	0.8	1.3	1.1	0.4	0.6	0.3	0.3	0	0.4
19	0.9	0.8	0.6	0.8	2.5	1.1	0.4	0.4	0.4	0.3	0	0.4
20	0.9	0.7	0.7	0.8	1.6	1.2	0.3	0.4	0.4	0.3	0	0.5
21	0.8	0.7	0.8	0.7	1.4	1.2	0.3	0.5	0.5	0.3	0	0.5
22	0.7	0.7	0.8	0.7	4.1	1.2	0.4	0.6	0.4	0.4	0	0.5
23	0.7	0.7	0.8	0.7	1.7	1.3	0.4	1.1	0.4	0.4	0	0.5
24	0.7	0.7	0.8	0.8	1.3	1.3	0.3	1.3	0.4	0.4	0.1	0.4
25	0.7	0.7	0.9	0.9	1.1	1.1	0.3	0.9	0.6	0.4	0.1	0.4
26	0.7	0.7	0.9	0.9	1.1	1.1	0.3	0.9	0.7	0.4	0.1	0.4
27	0.7	0.7	1.0	0.8	1.2	1.1	0.4	1.0	0.7	0.4	0.2	0.4
28	0.6	0.7	0.9	1.0	1.3	1.1	0.5	1.1	0.7	0.4	0.2	0.4
29	0.7	0.7	0.8	0.7		1.1	0.4	1.2	0.6	0.4	0.2	0.4
30	0.7	0.7	0.8	0.7		1.2	0.6	1.0	0.5	0.4	0.3	0.4
31	0.7		0.8	0.5		1.1		0.9		0.4	0.4	
Mean	0.8	0.7	0.8	0.9	1.1	1.2	0.7	0.7	0.5	0.4	0.2	0.4
Ac-Ft.	50	43	47	56	62	72	39	41	31	25	12	22

E — Estimated NR — No Record Total Discharge in Acre-Feet 500

TABLE 35

DAILY MEAN DISCHARGE
WILLOW CREEK NEAR ADIN

In second feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.8	5.4	5.6	6.3	5.9	6.8	6.5	6.8	5.6	4.8	5.0	5.4
2	4.8	5.4	5.9	6.1	5.6	6.8	6.5	7.0	5.6	4.8	5.2	5.4
3	5.0	5.4	5.9	5.9	5.6	7.0	6.5	6.8	5.6	4.8	5.2	5.4
4	5.0	5.6	5.9	5.6	5.6	6.5	6.5	6.5	5.6	4.8	5.2	5.4
5	5.0	5.6	5.9	5.9	5.6	6.3	5.9	6.5	5.6	4.8	5.2	5.4
6	5.0	5.6	5.9	6.1	5.6	6.3	5.0	7.3	5.9	4.8	5.2	5.4
7	5.0	5.6	5.9	6.1	5.6	6.3	4.8	6.8	5.9	5.0	5.2	5.4
8	5.0	5.6	6.5	6.1	5.4	6.1	5.2	6.5	5.6	4.8	5.2	5.2
9	5.4	5.6	6.3	7.0	5.4	6.1	5.4	6.6	5.6	4.8	5.2	5.2
10	5.4	6.3	6.1	6.5	5.9	6.1	5.2	6.3	5.6	4.8	5.2	5.2
11	5.4	5.6	6.1	6.1	5.9	6.1	5.0	6.1	5.4	4.8	5.2	5.0
12	5.4	5.6	6.1	6.5	5.4	6.1	5.2	5.6	5.4	4.8	5.2	5.2
13	5.2	5.9	6.1	6.3	5.4	6.1	5.4	5.9	5.4	4.8	5.2	5.0
14	5.2	6.3	6.3	5.9	5.6	5.9	5.6	6.1	5.4	5.0	5.2	5.4
15	5.2	5.9	6.3	5.9	5.6	5.6	5.6	6.1	5.4	5.0	5.2	5.4
16	5.2	5.9	6.3	5.9	15	5.6	5.9	6.1	5.4	4.8	5.2	5.4
17	5.2	5.6	6.3	5.6	9.1	5.9	5.9	6.1	5.4	4.8	5.2	5.4
18	6.1	5.6	6.3	5.6	8.3	5.9	5.9	6.3	5.2	4.8	5.2	5.6
19	6.3	5.6	6.3	5.6	9.1	5.9	5.9	6.5	5.2	4.8	5.2	5.4
20	5.9	5.6	6.3	5.6	7.5	5.9	5.6	6.1	5.2	4.8	5.4	5.4
21	5.6	5.4	7.0	5.6	7.0	6.1	5.6	6.1	5.2	4.8	5.4	5.2
22	5.6	5.4	6.3	5.6	7.0	6.3	5.6	5.9	5.0	4.8	5.4	5.2
23	5.6	5.4	6.3	5.9	6.5	6.3	5.6	6.8	5.0	5.0	5.2	5.2
24	5.9	5.4	6.3	7.0	6.3	6.3	6.5	6.8	5.2	5.0	5.2	5.2
25	5.6	5.4	6.5	7.5	6.1	6.8	6.8	6.1	E 5.6	5.0	5.2	5.2
26	5.9	5.6	7.3	6.8	6.3	7.0	6.5	6.3	5.2	5.0	5.2	5.2
27	5.6	5.6	7.8	6.8	6.5	6.8	6.1	6.5	5.6	5.0	5.2	5.2
28	5.4	5.6	6.8	7.3	6.5	6.8	6.1	6.1	5.0	5.0	5.2	5.2
29	5.4	5.6	6.5	6.5		6.8	5.9	6.1	4.8	5.0	5.0	5.2
30	5.4	5.6	6.3	6.3		7.3	5.9	6.1	4.8	5.0	5.2	5.4
31	5.4		6.3	5.9		6.8		5.9		5.0	5.2	
Mean	5.4	5.6	6.3	6.2	6.6	6.3	5.8	6.4	5.4	4.9	5.2	5.3
Ac-Ft.	331	335	388	380	368	390	345	391	320	300	320	315

E — Estimated NR — No Record Total Discharge in Acre-Feet 4183

TABLE 36

DAILY MEAN DISCHARGE
PIT RIVER AT PITTVILLE

In second feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	129	180	226	310	402	609	240	20	77	29	19 E	
2	98 E	167	183	270	310 E	735 E	244	17	104	30	20 E	
3	83 E	167	159	205	265 E	781 E	237	17	161	36	21 E	
4	85 E	147	150	219	241	731	233	16	158	35	21 E	
5	81 E	147	150	199	222	644	209	17	224	39	21 E	
6	86 E	138	150	168	211	549	192	24	284	38 E	22 E	
7	88 E	132	153	168	200	472	119	29	214	17 E	24 E	
8	104	129	162	199	199 E	427	72	30	134	74	25 E	[illegible] E
9	92 E	138	156	302	198	407 E	47	147	96	196	[illegible] E	
10	115 E	161	156	601	224 E	339 E	19	169	70	88 E	25 E	
11	136 E	166	148	502	177 E	293 E	29	183	49	23 E	11 [illegible]	
12	114	156	148	492	152	281 E	119	93	28	14 E		
13	138	164	148	838	140	266 E	78	164	20	16		
14	185	182	145	793	165	244 E	58	107	19	15		
15	143	193	140	537	221	241	41	68	15	15 E		
16	137	166	134	438	379	238	47	56	15	14 E		
17	131	161	132	364 E	826	242	41	58	17 E	14 E		
18	147	168	129	298	1250	224	21	36	16	15 E		1[illegible] E
19	173	161	127	273 E	1460	221	20	26	16	15 E		
20	163	173	127	241 E	1510	222	17	21	17	16 E		
21	156	189	134	216	1230	208	17	22	20	15 E	5.0 E	
22	178	192	140	198	1110	196	41	25	22	15 E		
23	189 E	201	148	194	963	199	28	29	17	15 E		
24	176	201	177	202 E	891	209	22	31	14	16 E		
25	165	195	233	261	852 E	220	21	23 E	20	16 E		
26	141	187	219	494	639 E	235	19	20 E	27	25		10[illegible] E
27	153	181	274	476	565	250	18	33	27	80		
28	141	168	358	491	528	254	18	118	17	80		
29	134	166	367	653		239	19	71	20	96		
30	150	212	386	554		236	19	64	27	42		
31	197		303	518 E		240		62		19 E		
Mean	136	170	188	377	555	344	76.8	57.9	64.8	37.4	[illegible]	[illegible]
Ac-Ft	8346	10090	11550	23160	30800	21130	4572	3562	3858	2297	664	496

E — Estimated NR — No Record Total Discharge in Acre-Feet 120500

TABLE 37

DAILY MEAN DISCHARGE
FALL RIVER NEAR DANA

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	442	452	445	455	457	467	514	533	473	485	457	402
2	442	452	447	455	457	470	522	538	467	485	460	400
3	442	450	447	452	452	473	535	522	467	480	455	400
4	445	447	450	452	450	473	544	512	467	483	457	395
5	447	450	447	457	450	473	562	504	467	480	455	395
6	450	450	450	455	444	475	579	509	473	480	452	390
7	450	447	450	455	442	473	573	501	478	480	447	390
8	450	447	450	465	439	473	560	493	473	478	444	388
9	452	450	450	498	437	473	552	493	473	478	442	385
10	455	450	450	509	437	470	546	491	473	480	442	383
11	455	450	450	535	429	470	546	485	473	480	444	385
12	455	447	450	726	429	470	544	483	473	480	444	385
13	452	445	450	738	432	478	538	485	470	480	442	385
14	452	447	450	584	434	478	535	496	470	478	439	390
15	455	447	452	538	434	470	530	496	467	478	437	392
16	457	445	455	514	462	473	517	488	473	473	434	390
17	457	445	455	498	496	478	506	488	473	473	434	385
18	462	442	452	488	533	478	504	485	475	473	429	395
19	465	445	452	483	544	478	498	483	473	467	429	395
20	465	442	455	470	512	475	496	480	475	465	427	397
21	465	445	455	460	498	475	493	478	478	462	427	392
22	465	445	[illegible]	462	485	483	493	478	478	462	424	392
23	462	442	452	457	475	509	498	480	475	462	422	390
24	460	445	452	460	467	509	498	483	478	465	422	388
25	460	445	452	475	465	506	509	483	478	465	419	390
26	457	447	455	480	462	506	568	483	480	465	417	390
27	455	445	467	475	462	501	587	488	485	465	412	392
28	457	445	465	506	465	496	552	485	485	465	410	392
29	455	447	457	485		501	538	483	485	465	405	390
30	455	447	455	470		506	530	483	485	462	405	392
31	455		452	460		520		478		460	402	
Mean	455	447	452	497	462	483	532	492	475	473	433	391
Ac-Ft	27960	265[illegible]	27820	30580	25680	29710	31670	30280	28240	29070	26650	23280

E — Estimated NR — No Record Total Discharge in Acre-Feet 337500

TABLE 38

DAILY MEAN DISCHARGE
HAT CREEK NEAR CASSEL

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	564	601	572	540	587	588	584	537	504	502	470	443
2	562	593	578	554	586	599	582	530	508	482	414	443
3	574	597	571	564	593	606	580	544	478	473	469	492
4	550	607	567	543	578	594	571	544	455	432	460	509
5	524	596	556	574	576	590	558	547	532	450	447	435
6	535	600	559	612	603	590	542	541	532	502	459	414
7	540	596	552	606	592	593	536	544	535	479	459	415
8	540	592	559	599	584	589	524	544	539	473	458	494
9	547	596	562	639	584	585	491	544	574	463	442	440
10	557	606	561	632	595	585	460	541	570	460	461	450
11	557	599	558	612	605	588	478	541	529	423	457	438
12	568	588	572	579	587	592	495	527	546	447	454	435
13	557	588	568	627	586	588	454	513	485	499	454	432
14	567	598	553	630	586	580	491	507	459	473	448	467
15	574	602	553	618	600	580	474	510	491	469	436	455
16	578	594	556	607	641	580	442	503	488	462	383	471
17	578	580	570	607	648	580	453	507	469	465	453	462
18	588	594	556	592	640	579	517	484	472	468	444	485
19	588	590	562	613	648	579	428	517	469	427	444	533
20	595	590	551	602	636	579	520	517	472	484	444	523
21	599	589	551	594	617	578	449	510	401	487	445	524
22	599	586	565	605	616	582	479	510	529	470	391	507
23	598	571	568	605	608	571	517	514	509	447	427	531
24	598	588	553	604	601	574	515	511	536	447	475	532
25	605	581	546	615	604	592	460	507	505	450	440	529
26	598	577	553	630	596	599	511	507	522	495	466	529
27	605	562	581	611	596	591	536	514	502	406	460	537
28	598	587	563	610	592	584	482	517	529	424	476	547
29	594	579	552	602		580	491	518	519	449	477	548
30	601	561	555	602		583	540	518	516	452	455	552
31	590		554	598		583		511		451	321	
Mean	575	590	561	601	603	586	505	522	506	462	445	486
Ac-Ft	35360	35080	34470	36950	33490	36020	30070	32090	30100	28390	27350	28900

E — Estimated NR — No Record

Total Discharge in Acre-Feet 388300

TABLE 39

DAILY MEAN DISCHARGE
BURNEY CREEK NEAR BURNEY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	23	20	24	61	79	99	75	17	9.4	11	8.6
2	22	22	20	24	50	84	101	80	16	9.8	11	8.3
3	15	20	20	23	47	81	102	74	19	9.4	10	12
4	15	19	20	23	47	79	103	67	18	9.3	10	8.9
5	15	19	20	27	46	77	106	63	20	9.6	9.8	8.3
6	19	20	19	25	44	75	101	55	23	10	10	5.8
7	15	21	19	26	42	75	94	50	19	13	10	5.5
8	14	20	21	51	39	71	84	47	18	10	9.8	7.0
9	14	25	21	234	36	66	75	47	17	11	9.1	7.9
10	23	45	20	160	37	66	71	43	16	12	9.4	8.5
11	18	24	19	158	36	63	70	39	16	12	9.4	7.9
12	18	20	19	395	33	67	69	38	16	12	7.1	7.5
13	22	28	18	218	33	74	67	38	14	13	8.1	8.1
14	18	36	20	123	55	69	63	41	14	12	9.8	13
15	18	25	21	87	79	64	60	46	14	11	9.1	14
16	23	21	20	70	191	66	57	41	13	11	9.4	12
17	18	20	20	62	192	72	59	39	11	11	8.0	12
18	22	21	20	55	174	72	50	39	12	11	8.0	33
19	28	22	20	47	170	69	52	37	14	11	8.0	20
20	29	23	21	42	132	65	49	35	15	12	9.0	18
21	22	22	26	39	124	69	49	33	15	12	10	15
22	19	22	21	39	84	73	52	29	16	11	12	13
23	19	21	20	38	89	79	49	30	18	8.2	12	18
24	20	21	21	48	80	73	48	32	16	9.5	11	15
25	20	21	32	100	76	70	60	30	15	9.9	10	15
26	20	21	46	87	72	88	132	28	15	9.2	10	16
27	20	21	90	129	73	77	116	29	12	9.2	9.7	16
28	20	21	39	173	75	72	86	26	12	9.2	9.7	13
29	20	20	31	105		75	74	24	9.9	9.5	9.3	14
30	19	20	27	80		126	70	23	9.1	11	8.6	15
31	21		25	67		111		24		11	8.6	
Mean	19.4	22.8	25.0	89.6	79.2	75.7	75.6	42.0	15.3	10.6	9.6	12.5
Ac-Ft.	1192	1357	1539	5512	4397	4655	4499	2582	912	653	589	746

E — Estimated NR — No Record

Total Discharge in Acre-Feet 28630

TABLE 40

DAILY MEAN DISCHARGE
BURNEY CREEK NEAR BURNEY *

In second-feet

Date	1957			1958								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								173 E	92	45	24	16
2								180	91	54	21	15
3								199	97	57	21	15
4								195	86	49	24	19
5								199	85	45	23	18
6								198	79	42	21	14
7								189	86	38	18	14
8								189	145	35	17	21
9								184	224	31	17	16
10								187	139	30	17	13
11								276	112	28	17	17
12								294	213	28	18	17
13								218	145	27	19	15
14								194	108	26	19	15
15								190	96	25	19	18
16								186	88	25	20	18
17								182	84	28	20	17
18								177	76	30	21	17
19								182	80	29	21	14
20								172	81	28	21	13
21							237 E	164	72	26	20	15
22							247 E	162	77	29	19	21
23							212 E	175	71	40	18	21
24							187 E	160	72	31	17	23
25							187 E	147	68	27	21	18
26							205 E	138	59	25	16	18
27							166 E	126	54	25	16	18
28							166 E	117	50	24	16	17
29							169 E	110	48	30	15	16
30							167 E	106	44	26	15	15
31								100		25	16	
Mean								176	94.1	32.5	18.9	16.8
Ac-Ft								10850	5597	1999	1164	1000

E — Estimated NR — No Record

Total Discharge in Acre-Feet

* - 1958 Revision

TABLE 41

DAILY MEAN INFLOW
SHASTA LAKE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3740	2550	4520	5140	8540	12730	10970	7780	5100	4300	2340	4160
2	3940	3630	5070	4810	7650	12800	11060	6150	5870	4380	1780	3580
3	3760	4460	4940	3370	7080	12480	11230	5230	5730	4160	3650	3990
4	4740	5040	5150	3040	6660	12280	10290	6420	6000	2840	3980	4070
5	4690	4630	4440	11330	6800	11420	9670	7240	5970	2150	3950	3940
6	4910	4190	2740	9650	6950	11060	9860	7300	3360	4540	4000	2270
7	3590	4600	3330	17220	6480	10850	10010	7280	2980	4420	4240	2120
8	3600	4370	4520	26860	5670	9740	9910	6690	4560	4580	2280	3910
9	4680	5240	4820	46790	7270	9750	9460	5670	5750	4780	2790	4290
10	4920	4390	5190	38270	9780	9890	9390	4950	5680	4610	3860	3840
11	5040	5060	5050	41450	8210	9670	7450	6400	5620	2720	4350	4220
12	5480	4640	4520	64340	7090	8650	6720	7180	5500	2460	4280	4000
13	4610	4860	3220	28110	7160	8700	7460	7320	3020	3780	4110	2730
14	3580	4750	2780	16920	17470	8770	9140	7520	2860	4610	3980	3680
15	3740	3760	4090	13180	18430	7380	8520	7000	4180	4490	2150	3350
16	3640	2970	5150	11700	39450	7950	8480	6980	5830	4440	2040	2940
17	4210	3980	4790	10260	34520	8660	7920	5620	4770	4190	3870	3680
18	5540	4940	4600	9290	36550	8820	6060	5360	5190	2660	4000	15970
19	5600	5370	4800	8100	29740	7940	5440	5710	5150	2250	3890	8130
20	5210	5250	4400	8210	26220	7540	6930	5640	3200	4240	4150	5470
21	5330	5170	2910	7450	22830	8020	8040	5600	2710	4400	3980	5490
22	4070	3060	4250	7090	20100	9760	7560	5860	4190	4200	2120	4560
23	4320	3240	5250	6630	17280	11090	7370	4660	4760	4230	1880	3590
24	5400	4410	6580	8300	14970	10330	7430	4540	4480	4300	4060	3630
25	4730	5160	4900	8650	13570	9440	9440	5260	4760	2220	3600	3840
26	3480	4820	8070	8810	12340	9780	a 8840	5640	4430	2340	4160	5080
27	4310	4330	5390	12090	12530	9130	8100	5020	2640	3910	4040	b 4770
28	5080	4710	5110	12910	12050	7980	8360	5590	2510	3790	4280	4000
29	5240	4350	4720	10990		8970	8410	5500	3960	4040	2320	3390
30	4250	2970	5220	9740		13930	7940	5140	4960	4030	2440	3210
31	5280		5380	9170		11710		3800		4070	4100	
Mean	4539	4383	4766	15480	15[illegible]1	9412	8599	6002	4524	3811	3441	4397
Ac-Ft	279090	259640	289390	951810	839780	569480	510930	369020	269200	234310	211580	262010

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5086000

a - 23 hour day.
b - 25 hour day.

TABLE 42

DAILY CONTENT*
SHASTA LAKE

In thousands of acre-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3404.2	3245.4	3086.3	3025.9	3323.9	3469.7	3797.6	3949.0	3845.4	3561.9	3114.1	2651.9
2	3455.5	3239.2	3082.1	3027.8	3317.6	3481.9	3812.7	3946.0	3841.9	3549.2	3091.8	2643.5
3	3447.0	3233.4	3077.7	3026.2	3313.7	3493.7	3829.4	3942.0	3838.2	3536.3	3072.7	2635.2
4	3440.1	3229.4	3073.8	3024.8	3306.7	3505.8	3843.8	3940.1	3833.4	3520.9	3054.5	2627.2
5	3433.4	3224.6	3069.9	3037.6	3302.8	3518.4	3857.2	3939.2	3829.2	3504.0	3036.4	2618.9
6	3426.5	3218.4	3061.2	3047.9	3299.9	3529.4	3870.3	3938.4	3819.1	3491.7	3018.2	2608.4
7	3417.8	3213.4	3054.0	3075.4	3296.8	3541.1	3883.9	3937.9	3807.9	3479.9	3000.5	2597.7
8	3408.7	3208.0	3048.8	3121.7	3292.2	3550.2	3897.1	3936.0	3800.5	3468.9	2979.0	2590.7
9	3402.3	3204.4	3045.6	3203.2	3291.0	3558.8	3908.7	3932.2	3795.0	3459.2	2958.6	2585.0
10	3395.6	3199.0	3042.8	3264.3	3294.6	3568.2	3918.9	3926.8	3788.9	3448.8	2940.0	2578.1
11	3389.5	3195.0	3040.8	3337.0	3294.9	3580.2	3924.6	3924.3	3782.5	3434.9	2924.4	2572.1
12	3384.6	3190.0	3037.6	3449.5	3293.2	3588.6	3929.2	3923.5	3776.7	3420.5	2908.4	2567.3
13	3377.5	3185.7	3031.4	3484.4	3291.5	3597.8	3935.2	3922.7	3764.5	3407.7	2892.5	2559.3
14	3368.6	3181.0	3024.8	3496.5	3311.5	3606.3	3944.4	3922.7	3751.6	3396.9	2876.2	2555.1
15	3360.1	3174.4	3020.5	3501.2	3331.6	3613.7	3950.4	3921.6	3742.4	3384.6	2857.8	2548.8
16	3351.1	3166.4	3018.2	3503.0	3391.7	3621.2	3953.9	3920.3	3734.8	3372.3	2839.9	2540.5
17	3343.3	3160.5	3015.7	3502.0	3440.1	3629.7	3955.0	3916.5	3725.8	3358.6	2825.7	2534.4
18	3338.4	3156.1	3012.5	3499.0	3492.5	3638.7	3951.7	3912.2	3719.0	3341.6	2811.4	2552.8
19	3333.8	3152.8	3010.0	3493.5	3522.1	3645.7	3948.2	3908.7	3709.3	3323.9	2798.8	2548.8
20	3328.0	3149.1	3007.1	3488.2	3516.8	3651.9	3946.6	3905.2	3697.3	3310.1	2787.0	2544.3
21	3322.4	3145.1	3001.9	3481.4	3505.0	3658.3	3946.0	3900.6	3684.3	3296.8	2775.1	2542.7
22	3314.2	3137.1	2999.6	3473.9	3487.9	3670.0	3944.1	3897.6	3673.6	3282.8	2759.5	2539.3
23	3306.9	3129.4	3000.3	3465.5	3465.2	3683.3	3942.8	3890.9	3663.5	3268.9	2743.2	2533.6
24	3301.4	3124.1	3003.9	3460.5	3447.3	3695.5	3940.6	3885.8	3652.7	3255.2	2731.3	2528.8
25	3294.9	3120.3	3004.6	3456.2	3440.8	3705.7	3943.0	3881.0	3641.8	3237.5	2720.7	2524.4
26	3286.2	3115.7	3013.0	3452.0	3442.8	3716.7	3944.4	3876.4	3630.7	3219.9	2710.6	2522.8
27	3278.7	3110.6	3015.7	3445.8	3450.0	3726.6	3944.9	3871.3	3615.3	3205.4	2700.0	2520.0
28	3273.0	3105.2	3018.2	3416.1	3459.7	3734.0	3946.3	3867.3	3599.1	3189.3	2691.6	2515.3
29	3267.2	3099.9	3019.3	3382.1	——	3743.7	3947.7	3863.0	3585.8	3171.4	2679.0	2510.1
30	3260.0	3092.0	3021.4	3349.4	——	3765.0	3948.7	3858.2	3574.4	3153.3	2667.3	2504.1
31	3255.7	——	3023.9	3331.6	——	3782.0	——	3850.5	——	3135.3	2659.3	——
Monthly Change	-217.7	-163.7	-68.1	+307.7	+128.1	+322.3	+166.7	-98.2	-276.1	-439.1	-476.0	-155.2

Annual gain or loss in storage: 1958 Calendar Year -882,800; 1958-59 Water Year -969,300 Acre-Feet
Differences in storage from 1957-58 to 1958-59 Water Year: Maximums -556,100; Minimums -662,100 Acre-Feet

Period of record November 1942 to date. Records computed by U. S. Bureau of Reclamation.

TABLE 43

DAILY MEAN DISCHARGE
SACRAMENTO RIVER NEAR REDDING

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7520					7180	3300	7130	6720	9880	12600	7670
2	7500					7160	3170	7040	6740	9910	12600	7610
3	7470					6350	2960	7040	6720	9910	12600	7580
4	7470					6190	2830	6930	7210	9880	12600	7580
5	7470					5370	2860	6960	7240	9840	12700	7240
6	7470					5250	2710	6930	7640	9880	12600	7070
7	7470					5230	2760	6910	7670	9510	12600	7070
8	7470					5250	2780	6880	7700	9420	12700	7070
9	7500					5250	3250	6880	7760	9060	12700	6740
10	7470					5230	3780	6910	7760	8910	12700	6610
11	7500					4230	4180	6910	7730	8910	11900	6640
12	7470	N	N	N	N	4060	4230	6880	7760	8940	11600	6320
13	7520	O	O	O	O	4060	4230	6830	8260	9290	11600	6190
14	7520	T	T	T	T	4060	4160	6830	8260	9450	11600	6160
15	7550					4060	5350	6830	8320	9780	11000	6110
16	7520	C	C	C	C	3980	6090	6830	8320	9940	10600	6140
17	7550	O	O	O	O	4250	6880	6800	8350	10200	10600	6190
18	7550	M	M	M	M	4230	7320	6770	8380	10500	10700	9350
19	7580	P	P	P	P	4270	7380	6740	8410	10500	9910	10200
20	7580	U	U	U	U	4330	7410	6740	8410	10500	9610	7730
		T	T	T	T							
21	7550	E	E	E	E	4330	7730	6720	8380	10500	9580	6530
22	7580	D	D	D	D	4350	8200	6690	8750	10500	9580	6190
23	7610					4480	8230	6720	8870	10400	9580	5830
24	7670					4290	8200	6770	9160	10500	9580	5760
25	7580					4370	8230	6720	9420	10500	8910	5760
26	7580					4400	8320	6740	9450	10500	8590	5760
27	7550					4420	8020	6740	9640	10500	8590	5760
28	7580					4180	7350	6770	9910	11200	8530	5710
29	7580					4140	7180	6740	9910	12200	8020	5640
30	7610					4590	7180	6720	9910	12600	7670	5660
31	7100					3900		6720		12600	7670	
Mean	7521					4756	5542	6833	8292	10200	10700	6729
Ac-Ft	462400					292400	329800	420100	493400	627200	658200	400400

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 44

DAILY MEAN DISCHARGE
LITTLE COW CREEK NEAR INGOT

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept
1	8.0	16	22	30	116	148	129	70	21	8.4	6.2 E	[illegible] E
2	8.4	16	22	28	103	142	120	60	20	8.4	[illegible] E	[illegible] E
3	9.2	16	22	25	95	136	114	58	20	8.8	6.2 E	[illegible] E
4	9.2	16	22	24	92	125	111	53	20	8.8	6.2 E	[illegible] E
5	9.6	16	22	41	86	120	113	51	20	8.4	6.5 E	[illegible] E
6	10	16	22	401	83	116	106	49	20	8.0	6.2 E	7.2 E
7	10	16	22	539	83	111	99	48	18	8.0 E	[illegible] E	[illegible] E
8	10	14	22	902	80	104	92	45	17	[illegible] E	[illegible] E	[illegible]
9	9.2	21	23	1130	81	99	90	45	16	[illegible] E	[illegible] E	[illegible] E
10	9.2	49	22	269	248	95	86	43	16	6.9 E	6.2 E	[illegible] E
11	9.2	24	22	249	234	89	78	43	15	7.2 E	[illegible] E	[illegible]
12	10	24	22	1130	158	90	74	42	14	6.5 E	[illegible] E	[illegible]
13	10	26	21	395	133	90	72	45	13	6.5 E	6.2 E	7.6
14	11	34	21	187	236	86	70	53	11	6.2 E	[illegible] E	8.0
15	11	27	21	123	480	81	66	49	10	[illegible] E	[illegible] E	[illegible]
16	11	25	20	96	2230	80	59	43	9.6	5.9 E	[illegible] E	8.8
17	11	23	20	80	688	81	59	43	[illegible]	5.6 E	6.5 E	8.8
18	27	24	20	69	602	80	58	41	[illegible]	5.6 E	6.5 E	36
19	26	28	20	60	594	77	53	38	[illegible]	5.6 E	6.5 E	20
20	18	25	20	53	730	76	52	35	8.4	5.6 E	6.5 E	15
21	16	24	28	50	636	80	53	32	8.4	5.6 E	6.5 E	12
22	16	23	23	47	505	[illegible]	53	32	8.0	5.9 E	6.5 E	12
23	16	22	22	47	351	113	52	35	8.4	5.9 E	6.5 E	12
24	16	22	28	114	269	92	53	32	8.4	[illegible] E	6.5 E	11
25	16	22	68	417	218	84	69	30	8.4	5.9 E	[illegible] E	11
26	16	22	196	220	189	127	116	31	8.8	[illegible] E	6.9 E	10
27	16	22	186	524	165	95	84	30	8.4	[illegible] E	[illegible] E	[illegible]
28	16	22	112	473	154	90	72	28	8.4	6.5 E	[illegible] E	[illegible]
29	16	22	47	223		87	65	26	8.8	6.5 E	[illegible] E	10
30	15	22	36	165		268	65	25	8.8	6.2 E	[illegible] E	8.8
31	16		32	131		156		23		[illegible] E	[illegible] E	
Mean	13.3	22.6	38.9	266	344	107	79.4	41.2	[illegible]	6.7	6.5	10.2
Ac-Ft.	817	1347	2392	16350	19120	6577	4[illegible].7	[illegible]535	[illegible]	41.	397	[illegible]

E — Estimated NR — No Record Total Discharge in Acre-Feet [illegible]

TABLE 4[illegible]

DAILY MEAN DISCHARGE
SALT CREEK NEAR BELLA VISTA

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	0.1	13	13	5.4	0.3				
2			0	0.1	9.8	10	4.3	0.3				
3			0	0.1	7.8	8.9	3.4	0.3				
4			0	0.1	6.7	7.4	2.7	[illegible]				
5			0	75	5.7	7.0	[illegible]	[illegible]				
6			0	89	5.1	6.4	2.0	[illegible]				
7			0	52	4.3	5.4	1.5	0.2				
8			0	77	3.8	5.1	1.3	0.1				
9			0	245	4.8	4.1	1.1	0.1				
10			0	71	15	3.8	1.0	0.1				
11			0	84	15	3.4	0.9	0.1				
12	N	N	0	280	12	3.1	0.8	0.1	N	N	N	N
13	O	O	0	79	11	2.9	0.7	0.1	[illegible]	O	[illegible]	[illegible]
14			0	29	21	2.6	0.5	0.1				
15			0	16	89	2.4	0.4	0.1				
16	F	F	0	11	766	2.2	0.4	0.1	F	F	F	F
17	L	L	0	8.1	198	2.4	0.3	0.1	L	L	L	L
18	O	O	0	6.4	170	2.4	0.3	0.1	O	O	O	O
19	W	W	0	4.6	170	2.2	0.2	0.1	W	W	W	W
20			0	3.8	178	2.0	0.2	0				
21			0	3.4	192	2.4	0.2	0				
22			0	2.9	147	3.6	0.2	0				
23			0	2.7	86	4.8	0.1	0				
24			0	7.0	49	3.4	0.1	0				
25			0	75	33	2.6	0.2	0				
26			0	36	23	4.6	1.0	0				
27			4.8	119	18	2.6	0.7	0				
28			1.2	136	15	2.4	0.4	0				
29			0.6	52		2.2	0.3	0				
30			0.3	28		15	0.3	0				
31			0.2	18		7.8		0				
Mean	0	0	0.2	52.0	81.0	4.8	1.1	0.1	0	0	0	0
Ac-Ft	0	0	14	3196	4501	294	66	6	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 8077

TABLE [illegible]

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT BALLS FERRY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7810					9170	4800	7790	7430	10300	12700	7980
2	7760					9050	4480	7760	7370	10300	12700	7950
3	7700					8270	4300	7700	7350	10300	12700	7950
4	7730					7900	4150	7650	7700	10300	12800	7930
5	7790					7100	4080	7540	7870	10300	12800	7650
6	7810					6780	3810	7560	8270	10300	12800	7450
7	7810					6730	3700	7560	8350	10000	12800	7430
8	7790					6650	3660	7510	8350	9800	12800	7400
9	7760					6570	3910	7480	8320	9440	12800	7130
10	7790					6470	4370	7480	8320	9320	12900	6940
11	7810					5610	4730	7480	8320	9290	12300	6910
12	7810	N	N	N	N	5250	4800	7480	8290	9260	11900	6620
13	7840	O	O	O	O	5220	4780	7480	8700	9530	11900	6470
14	7840	T	T	T	T	5180	4750	7540	8760	9770	11900	6420
15	7870					5080	5610	7560	8790	10000	11300	6420
16	7840	C	C	C	C	5010	6310	7560	8790	10300	10900	6420
17	7870	O	O	O	O	5180	7130	7560	8820	10500	10900	6440
18	8040	M	M	M	M	5180	7590	7560	8820	10700	10900	6780
19	8070	P	P	P	P	5180	7700	7480	8840	10700	10300	14000
20	8070	U	U	U	U	5220	7730	7480	8820	10800	9920	8960
		T	T	T	T							
21	8010	E	E	E	E	5220	8010	7450	8820	10800	9920	7020
22	8040	D	D	D	D	5250	8470	7450	9110	10700	9920	6680
23	8040					5780	8580	7590	9350	10700	9920	6310
24	8070					5490	8580	7560	9500	10700	9890	6190
25	7950					5390	8640	7540	9830	10700	9350	6160
26	7950					5510	9140	7540	9860	10800	8900	6130
27	7930					5390	8790	7510	9950	10700	8960	6110
28	7930					5080	8040	7510	10300	11300	8870	5980
29	7900					5010	7760	7450	10300	12300	8380	5880
30	7930					6470	7760	7450	10300	12800	7980	5860
31	7820					5830		7430		12700	8010	
Mean	7877					6439	6200	7538	8789	10[illegible]	10470	7186
Ac-Ft	484300					371400	368200	463500	523000	645500	674600	427600

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 47

DAILY MEAN DISCHARGE
NORTH FORK COTTONWOOD CREEK NEAR IGO

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	12	24	29	118	307	250	99	38 E	9.5 E	7.8 E	8.[illegible] E
2	12	12	25	28	113	329	222	96	35 E	9.5 E	7.8 E	[illegible]
3	12	12	25	28	110	329	217	93	33 E	9.5 E	7.8 E	[illegible]
4	12	11	24	28	107	318	222	91	31 E	9.5 E	7.8 E	[illegible]
5	12	11	23	187	102	296	217	91	30 E	9.5 E	7.8 E	[illegible] E
6	12	12	24	130	99	302	213	88	25 E	8.7 E	7.8 E	[illegible]
7	13	11	24	144	96	302	195	82	25 E	8.7 E	7.8 E	[illegible]
8	12	13	24	744	94	275	166	77	24 E	8.7 E	7.8 E	[illegible] E
9	12	16	25	1220	94	260	122	74	19 E	8.7 E	7.8 E	[illegible]
10	12	29	24	918	104	245	115	69	19 E	8.7 E	7.8 E	[illegible]
11	12	25	24	867	96	231	112	66	19 E	7.8 E	7.8 E	[illegible] E
12	12	24	23	1170	91	217	106	57	18 E	7.8 E	7.8 E	[illegible]
13	12	23	23	660	89	208	99	52	17 E	7.8 E	8.7 E	[illegible]
14	12	28	23	491	424 E	204	96	52	17 E	7.8 E	8.7 E	[illegible]
15	12	25	23	413	835 E	199	93	50	16 E	7.8 E	8.7 E	[illegible]
16	14	24	24	369	1810	178	85	48	16 E	7.8 E	8.7 E	[illegible] E
17	14	24	24	261	1070	178	85	46	16 E	7.8 E	7.8 E	[illegible] E
18	16	25	24	149	850	174	82	48	15 E	7.8 E	7.8 E	266
19	17	26	24	166	529	174	79	46	16 E	7.8 E	7.8 E	74
20	16	25	24	153	568	174	79	42	15 E	7.0 E	7.8 E	57
21	16	24	35	143	501	174	77	42	13 E	7.0 E	7.8 E	52
22	16	24	28	140	446	362	77	40	12 E	7.0 E	7.8 E	46
23	17	23	25	136	395	284	71	52	12 E	7.0 E	7.8 E	46
24	13	23	28	146	364	213	71	46	11 E	7.0 E	7.8 E	42
25	12	23	41	192	341	213	99	44	11 E	7.0 E	7.8 E	42
26	11	24	58	143	296	213	143	44	11 E	7.0 E	7.8 E	40
27	12	24	62	163	255	186	136	42 E	11 E	7.0 E	8.7 E	40
28	12	24	40	166	275	182	115	42 E	10 E	7.0 E	8.7 E	38
29	12	23	32	153		182	109	38 E	10 E	7.0 E	8.7 E	36
30	11	23	31	140		651	103	40 E	9.5 E	7.0 E	8.7 E	33
31	11		29	124		307		40 E		7.0 E	8.7 E	
Mean	13.0	20.8	28.6	316	367	254	129	50.3	18.5	7.9	8.[illegible]	31.1
Ac-Ft	797	1236	1759	19440	20370	15600	7648	3644	1100	486	491	1853

E — Estimated NR — No Record Total Discharge in Acre-Feet 74420

TABLE 48

DAILY MEAN DISCHARGE
SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.0	8.3	13	49	220	403	224	115	61	NR		
2	4.0	8.9	14	45	186	494	253	107	61	NR		
3	4.7	10	14	40	159	527	266	97	61	NR		
4	4.3	11	13	36	143	456	279	85	61	NR		
5	4.3	10	14	223	128	391	298	79	59	NR		
6	4.7	10	16	149	115	358	275	73	61	NR		
7	5.1	9.4	15	88	109	348	236	69	59	NR		
8	5.5	9.2	15	410	97	312	204	65	58	NR		
9	5.9	10	15	1550	94	275	179	63	58	NR		
10	5.9	10	15	933	97	244	165	63	56	NR		
11	5.5	11	15	696	97	216	159	67	53	NR		
12	5.9	13	15	2960	81	208	159	71	51	NR	N	N
13	6.3	13	15	1190	71	228	155	81	49	NR	O	O
14	6.8	12	15	597	221	220	146	94	49	NR		
15	6.3	14	14	375	818	197	134	90	49	NR		
16	6.3	19	14	284	3150	182	125	79	46	NR	F	F
17	6.8	16	15	236	1080	179	117	69	43	NR	L	L
18	7.8	16	15	197	688	182	112	NR	40	NR	O	O
19	6.8	16	14	169	583	179	104	NR	NR	NR	W	W
20	6.3	30	16	146	514	162	102	NR	NR	NR		
21	7.3	31	17	123	561	159	102	NR	NR	NR		
22	7.8	23	27	107	386	162	104	NR	NR	NR		
23	7.8	20	31	90	303	165	107	NR	NR	NR		
24	7.8	17	27	129	266	155	117	NR	NR	0		
25	8.3	16	25	397	248	143	134	NR	NR	0		
26	7.8	16	30	403	266	179	159	NR	NR	0		
27	8.3	15	100	312	284	197	137	NR	NR	0		
28	8.3	13	85	576	317	172	120	NR	NR	0		
29	7.8	13	58	426		165	112	63	NR	0		
30	7.3	14	45	332		189	112	63	NR	0		
31	7.8		49	261		240		63		0		
Mean	6.4	14.5	25.4	436	403	248	163				0	0
Ac-Ft.	396	862	1559	26840	22380	15250	9711				0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 49

DAILY MEAN DISCHARGE
DRY FORK SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0		1.3	45	80	31	7.0	0.3			
2		0	0.1	0.9	37	79	29	5.6	0.1			
3		0	0.1	0.5	34	77	28	5.1	0			
4		0	0.2	0.5	32	71	26	5.6	0			
5		0	0.3	109	29	65	24	5.1	0			
6			0.2	85	26	61	22	4.3	0			
7			0.2	76	23	59	20	4.3	0			
8		0	0.4	400	23	56	18	3.9	0			
9			0.5	606	20	51	17	3.2	0			
10			0.5	143 E	22	47	16	2.9	0			
11			0.7	79 E	24	45	15	2.6	0			
12	N		0.9	985 E	19	42	13	2.6	0	N	N	N
13	O		1.3	513 E	16	42	12	2.3	0	O	O	O
14			1.3	166 E	172	39	11	2.3	0			
15			1.3	95 E	1320	36	11	2.6	0			
16	F	0	1.3	64 E	3500	33	10	2.3	0	F	F	F
17	L	0	1.5	50 E	649	32	9.6	2.6	0	L	L	L
18	O	0	1.5	37 E	403	31	9.0	2.3	0	O	O	O
19	W	0	1.5	29 E	233	30	8.5	2.0	0	W	W	W
20		0	1.7	24 E	254	27	8.0	1.7	0			
21		0	2.6	22	300	26	7.5	1.7	0			
22		0	4.3	19	166	27	7.0	1.5	0			
23		0	2.6	18	127 E	34	7.0	1.7	0			
24		0	1.5	20	114 E	29	7.0	2.3	0			
25		0	1.5	158	105 E	26	7.5	3.6	0			
26		0	4.3	98	95 E	32	12	3.6	0			
27		0	18	73	85 E	28	12	3.2	0			
28		0	10	102	80	24	9.6	3.2	0			
29		0	4.3	79		24	8.0	2.0	0			
30		0.1	2.6	67		35	7.5	1.1	0			
31			1.7	52		38		0.1				
Mean	0	0.0	2.2	135	284	42.8	14.1	3.0	0.0	0	0	0
Ac-Ft	0	0	137	8276	15780	2630	839	187	1	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 27850

TABLE 50

DAILY MEAN DISCHARGE
RED BANK CREEK NEAR RED BLUFF

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	NR	22 E						
2				0	NR	21 E						
3				0	NR	20 E	10 E	1.0 E				
4				0	NR	19 E						
5				432 E	NR	18 E						
6				66 E	NR	17 E	4.6 E					
7				20 E	NR	16 E		1.4 E				
8				386 E	NR	15 E						
9				510 E	NR	15 E						
10				134 E	NR	15 E		1.0 E				
11				NR	NR	15 E						
12	N	N	N	NR	NR	15 E		0 E	N	N	N	N
13	O	O	O	NR	NR	15 E		0 E	O	O	O	O
14				NR	NR	14 E		0 E				
15				NR	309 E	14 E	3.0 E	0 E				
16	F	F	F	NR	2680 E	14 E		0 E	F	F	F	F
17	L	L	L	NR	250 E	14 E		0 E	L	L	L	L
18	O	O	O	NR	191 E	14 E		0 E	O	O	O	O
19	W	W	W	NR	98 E			0 E	W	W	W	W
20				NR	80 E			0 E				
21				NR	154 E			0 E				
22				NR	66 E			0 E				
23				NR	48 E		1.5 E	0 E				
24				NR	40 E			0 E				
25				NR	34 E	10 E		0 E				
26				NR	30 E			0 E				
27				NR	27 E		1.0 E	0 E				
28				21 E	24 E			0 E				
29				NR	—			0 E				
30				NR	—			0 E				
31		—		NR	—			0 E	—			—
Mean	0	0	0			13.6	3.7	0.2	0	0	0	0
Ac-Ft	0	0	0			839	220	14	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 51

DAILY MEAN DISCHARGE
NORTH FORK MILL CREEK NEAR LOS MOLINOS

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								3.6	1.3	NR	0	0
2								3.9	0.7	NR	0	0
3								4.6	0.6	NR	0	0
4								4.5	0.6	NR	0	0
5								4.1	0.7	NR	0	0
6								4.1	0.7	NR	0	0
7								4.1	1.7	NR	0	0
8								4.3	2.7	NR	0	0
9								4.5	2.6	NR	0	0
10								4.6	2.1	0 E	0	0
11								4.8	2.1	0	0	0
12								5.0	2.1	0	0	0
13								4.5	2.0	0	0	0
14								3.2	1.8	0	0	0
15							4.6	3.6	1.3	0	0	0
16							4.5	4.5	0.6	0	0	0
17							4.3	3.7	2.1	0	0	0
18							4.1	4.5	2.0	0	0	11
19							3.9	2.7	1.8	0	0	8.0
20							3.7	4.3	1.6	0	0	3.2
21							3.9	2.4	1.6	0	0.1	3.9
22							4.3	4.3	1.7	0	0.1	4.8
23							4.5	3.6	1.4	0	0	4.5
24							3.7	4.1	1.3	0	0	3.9
25							3.6	2.9	1.3	0	0	2.9
26							3.0	3.6	1.1	0	0	2.3
27							2.7	2.6	1.1	0	0	2.1
28							2.3	1.4	0.8 E	0	0	2.1
29							2.3	0.4	NR	0	0	2.3
30							2.6	1.2	NR	0	0	2.1
31								2.9		0	0	
Mean								3.6			0.0	1.8
Ac-Ft								223			0	105

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 52

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT VINA BRIDGE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	9060		8500	5890	19800 E	13700	8050	9450	8300	10700	12600	7880
2	8680		8470	5870	15000 E	13400	7360	9430	8250	10700	12700	7830
3	8700	8700 E	8450	5810	13700	13200	7310	9220	8200	10700	12700	7810
4			8630	5780	12900	12200	7100	9060	8300	10700	12600	7760
5			8550	9400	12100	11500	7100	8910	8580	10700	12600	7760
6		8470	8000	17200	11600	10600	6760	8880	8750	10700	12600	7330
7		8450	8470	11300	10700	10300	6400	8780	9040	10600	12600	7310
8	8700 E	8450	8450	15100	10500	10000	6190	8750	9040	10200	12600	7260
9		8470	8370	33600	10500	9780	6040	8730	9010	10200	12600	7240
10		8650	8150	30000	10700	9510	6250	8680	9010	9800	12600	6960
11		8630	7950	20600	11500	9110	6540	8800	9010	9780	12500	6850
12		8580	7520	32100	11300	8200	6740	8750	9010	9780	11700	6850
13		8580	7480	40100	10700	8130	6760	8780	9090	9780	11700	6580
14		8730	7500	22900	10900	8050	6720	8800	9400	10200	11700	6510
15	8850 E	8830	7520	18500	19500	7810	6690	8830	9400	10300	11700	6470
16		8600	7620	16600	75900	7570	7570	8830	9400	10500	10900	6540
17		8500	7620	15200	67500	7500	8250	8780	9380	10600	10900	6560
18		8580	7590	14700	37500	7590	8700	8750	9400	11000	10800	7030
19		8550	7570	14200	33700	7550	9090	8680	9400	11100	10800	13000
20		8630	7520	14200 E	35400	7400	9110	8580	9400	11100	9990	10700
21		8630	7360	14200 E	54300	7400	9140	8520	9400	11100	9960	7910
22		8650	7360	13900 E	46100	7430	9530	8500	9380	11100	9910	7360
23		8550	6960	13700 E	41400	7810	9910	8630	9720	11100	9960	6830
24		8550	6850	14000 E	38500	7880	9990	8630	9720	11100	9860	6580
25	9000 E	8500	6450	16800 E	30400	7590	10100	8600	10100	11000	9800	6560
26		8500	6600	20400 E	23100	7640	10700	8550	10300	11000	9040	6580
27		8500	7220	16400 E	16500	7880	11000	8600	10300	11000	8910	6540
28		8500	6900	22800 E	14800	7520	10200	8500	10600	11000	8880	6490
29		8500	6300	32400 E		7240	9480	8470	10700	11800	8800	6380
30		8520	6060	30500 E		7520	9430	8350	10700	12700	8100	6320
31			5950	25800 E		9430		8400		12600	7950	
Mean	8871	8587	7546	18390	25230	8982	8140	8749	9343	10790	10970	7326
Ac-Ft	545400	510900	464000	1130000	1401000	552300	484400	538000	556000	663800	674500	435900

E — Estimated NR — No Record

Total Discharge in Acre-Feet 7956000

TABLE 53

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT HAMILTON CITY

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8100	7840	7560	5330	21200	13900	7760	7170	6440	8220	10200	6500
2	7760	7760	7560	5240	15300	12200	6520	7170	6440	8190	10200	6500
3	7700	7310	7560	5160	13900	11800	6260	7170	6470	8190	10500	6500
4	7730	7310	7760	5120	13900	11300	5880	6900	6470	8190	10500	6650
5	7730	7280	7620	6980	13400	10500	5750	6900	6470	8160	10500	6790
6	7760	7310	6980	17400	11500	10200	5020	6900	6500	8160	10500	6650
7	7760	7280	7470	11800	10500	10200	4450	6900	6500	7870	10500	6520
8	7790	7280	7470	12400	9980	9890	4340	6760	6500	7560	10500	6520
9	7730	7340	7450	34600	9830	9890	4120	6900	6520	7560	10500	6260
10	7790	7500	7220	30500	9830	9890	4120	6630	6520	7280	10600	6000
11	7760	7700	7060 E	21300	10600	9450	4450	6360	6520	7250	10200	5750
12	7760	7560	6650 E	27700	10300	8840	4450	6360	6820	7250	9610	5750
13	7810	7590	6650 E	43900	10100	8250	4450	6630	6820	7250	9610	5780
14	7840	7670	6650 E	22600	10100	7960	4450	6630	7090	7220	9610	5780
15	7840	7870	6630 E	18500	17500	7990	4230	6600	7110	7790	9610	5780
16	7930	7640	6630 E	16300	74800	7990	4900	6870	7110	8070	9610	5780
17	7960	7590	6630 E	14700	77400	7700	5580	6870	7110	8040	8990	5780
18	8220	7560	6630 E	14100	38800	7420	6000	6870	7140	8330	8690	7090
19	8420	7620	6630 E	14000	34900	7280	6650	6600	7140	8330	8420	11700
20	8420	7620	6600	14000	33000	7170	6440	6600	7140	8310	7840	12900
	8280											
21	8280	7640	6420	14000	54700	7170	6520	6600	7170	8310	7840	8040
22	8250	7590	6500	13600	44700	7170	6920	6630	7170	8310	8130	7200
23	8420	7590	6110	13600	40300	7590	7200	6630	7170	8600	8130	6920
24	8310	7590	6110	13800	37400	7590	7200	6630	7140	8600	8130	6500
25	8160	7560	5850	16200	31300	7200	7870	6650	7140	8630	7840	6500
26	8160	7590	5900	19900	23000	6920	8690	6650	7420	8630	6280	6500
27	8220	7560	6160	16100	17000	6650	8600	6650	7960	8630	6760	6230
28	8070	7560	6600	23200	15200	6650	8450	6680	8250	8630	6760	5700
29	8070	7560	5850	33000		6130	7450	6680	8540	8630	6760	5700
30	7990	7560	5550	31600		6390	7170	6420	8510	10200	6760	5450
31	7990		5410	27900		8930		6440		10200	6500	
Mean	7991	7548	6705	18210	25370	8652	6063	6724	7043	8213	8954	6724
Ac-Ft	491400	449100	412300	1120000	1409000	532000	360800	413500	419100	505000	550600	400100

E — Estimated NR — No Record

Total Discharge in Acre-Feet 7063000

TABLE 4

DAILY MEAN DISCHARGE
LITTLE CHICO CREEK NEAR CHICO

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.
1				NR	9.3	24	14	6.5	2.4	0.1		0
2				NR	8.8	21	12	6.5	2.2	0		0
3				NR	7.8	21	11	6.1	1.9	0		0
4				NR	7.4	19	9.[illegible]	5.7	1.7	0		0
5				NR	7.[illegible]	18	9.7	[illegible].3	1.7	0		0
6				NR	6.5	17	9.3	[illegible].4	1.7	0		0
7				NR	5.7	16	8.8	4.6	1.7	0		0
8				NR	5.7	15	8.3	4.6	1.7	0		0
9				NR	6.1	15	7.8	4.3	1.5	0		0
10				36	14	15	7.8	4.3	1.5	0		0
11			NR	23	24	14	7.8	3.9	1.5	0		0
12			NR	309	17	14	7.4	3.6	1.5	0	N	
13			NR	84	14	14	7.4	3.9	1.3	0		
14			NR	35	43	13	7.0	3.9	1.3			0
15			NR	17	92	12	7.0	3.9	1.3			
16			NR	21	654	12	6.5	3.6	1.3	0	F	0
17			NR	19	475	11	6.5	3.9	1.1	0	L	0
18			NR	16	237	11	6.5	3.6	1.1	0	O	5.8
19			NR	14	122	10	6.1	3.3	0.9	0	W	3.6
20			NR	12	104	10	6.1	3.3	0.8	0		1.7
21			NR	11	118	10	6.1	3.0	0.6	0		0.9
22			NR	11	80	10	6.1	3.3	0.4	0		0.6
23			NR	9.7	60	11	5.7	3.9	0.3	0		0.6
24			NR	12	47	11	5.7	3.6	0.4	0		0.5
25			NR	17	39	10	16	3.6	0.4	0		0.4
26			NR	13	33	12	15	3.6	0.8	0		0.4
27			NR	13	29	10	8.8	3.6	0.8	0		0.4
28			NR	15	25	9.7	7.0	3.3	0.6	0		0.6
29			NR	12 E		9.7	6.5	2.7	0.4	0		0.5
30			NR	11		23	6.5	2.4	0.3	0		0.5
31			NR	10		17		2.4		0		
Mean					81.8	14.0	8.3	4.[illegible]	1.2	0.0	0	0.6
Ac-Ft					4545	864	4[illegible]	48	[illegible]	0	0	33

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE [illegible]

DAILY MEAN DISCHARGE
LITTLE CHICO CREEK DIVERSION NEAR CHICO

In Second-feet

Date	1958			1959								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0							
2					0							
3					0							
4					0							
5					0							
6					0							
7					0							
8					0							
9				0	0							
10				0	0							
11				0	0							
12				0	0	N	N	N	N	N	N	N
13				0	0	0	0	0	0	0	0	0
14				0	0							
15				0	0							
16				0	64	F	F	F	F	F	F	F
17				0	12	L	L	L	L	L	L	L
18				0	0	O	O	O	O	O	O	O
19				0	0	W	W	W	W	W	W	W
20				0	0							
21				0	0							
22				0	0							
23				0	0							
24				0	0							
25				0	0							
26				0	0							
27				0	0							
28				0	0							
29				0								
30				0								
31				0								
Mean					2.7	0	0	0	0	0	0	0
Ac-Ft					151	0	0	0	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 56

DAILY MEAN DISCHARGE
BIG CHICO CREEK AT CHICO

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	E	E	0	21	19	110	116	38	16	4.2	0	0
2	0	E	0	21	17	104	80	41	14	3.9	1.6	0
3	0	0	0	20	16	99	87	37	13	3.3	1.0	0
4	0	0.4	0	19	15	87	85	35	13	3.1	0	0
5	0	7.3	0	90	13	72	78	32	15	6.6	0	0
6	0	8.7	0	150	12	62	74	31	13	3.6	0.2	0
7	0	8.7	0	107	12	53	68	29	13	1.4	0	0
8	0	9.2	0	219	12	46	60	26	18	1.7	0	1.5
9	0	4.5	0	495	13	40	55	25	14	1.6	0.9	0
10	0	0	0	195	21	37	53	25	18	1.1	1.2	0
11	0	0	0	149	72	57	50	25	18	1.4	0	0
12	0	0	0	478	53	119	47	23	18	3.4	0	0
13	0	0	0	297	46	117	44	22	18	1.7	0	0
14	0	0	0	157	83	113	44	23	14	0.8	0	0
15	0	0	0	126	162	104	41	21	12	1.0	0	0.4
16	0	0	0	149	1060	94	41	21	7.7	0.8	7.5	1.0
17	0.3	0	0	123	871	92	41	22	9.2	0.7	1.7	3.1
18	3.9	0	0	99	750	87	40	21	9.2	0.8	0	19
19	16	0	0	76	568	83	38	21	8.2	3.8	0	29
20	16	0	0	64	400	78	37	20	7.7	1.8	1.9	13
21	0.1	0	0	55	374	78	35	19	12	0	3.3	8.7
22	0	0	0	49	294	78	33	16	7.3	0	2.3	8.7
23	0	0	0	46	230	92	32	23	4.2	0.2	3.0	6.4
24	0	0	8.1	49	186	99	31	23	5.2	0.1	2.4	6.0
25	0	0	22	59	157	85	57	22	5.6	0	0	5.2
26	0	0	27	70	138	94	83	23	6.8	2.6	0.5	6.0
27	0	0	92	62	125	85	57	26	7.3	0.9	0.6	8.7
28	0	0	35	102	117	78	44	21	9.5	0	0.8	8.2
29	0	0	25	85		76	40	19	7.3	0	1.1	7.3
30	0	0	21	26		119	38	18	3.1	0	8.5	6.8
31	0		21	22		131		16		0	1.4	
Mean	1.2	1.3	8.1	119	208	86.1	54.3	24.6	11.2	1.6	1.3	4.6
Ac-Ft	72	77	498	7299	11580	5294	3231	1515	669	100	79	276

E — Estimated NR — No Record Total Discharge in Acre-Feet 30690

TABLE 57

DAILY MEAN DISCHARGE
LINDO CHANNEL NEAR CHICO

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	5.7	19	0	24	123						
2	0	5.7	20	0	21	123						
3	6.5	5.1	6.3	0	17	120						
4	5.8	0.4	3.9	0	17	112						
5	0	0	1.9	0	17	102						
6	0	0	18	83	16	95						
7	0	0	10	98	16	89						
8	0	0	9.5	198	16	85						
9	0	0	8.2	552	15	79						
10	0	0	8.2	211	20	74						
11	0	13	8.2	162	66	47						
12	0	17	8.2	502	50	0.6	N	N	N	N	N	N
13	0	17	7.5	314	36	0	O	O	O	O	O	O
14	0	20	12	171	65	0						
15	0	21	15	99	162	0						
16	0	17	15	1.7	1270	0	F	F	F	F	F	F
17	0	17	15	0	1180	0	L	L	L	L	L	L
18	0	17	16	0	929	0	O	O	O	O	O	O
19	0	19	17	0	613	0	W	W	W	W	W	W
20	0	21	18	0	365	0						
21	0	21	30	0	348	0						
22	0	21	25	0	280	0						
23	0	21	0	0	227	0						
24	0	21	0	0	190	0						
25	0	21	0	0	164	0						
26	3.4	21	0	0	146	0						
27	5.1	22	0	0	134	0						
28	6.3	20	0	0	127	0						
29	6.3	19	0	0		0						
30	6.3	19	0	15		0						
31	5.1		0	24		0						
Mean	1.4	13.4	9.4	78.4	233	33.8	0	0	0	0	0	0
Ac-Ft.	89	797	579	4821	12950	2082	0	0	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 21320

TABLE 58

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT ORD FERRY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8240	8230	8030	5730	24500	16800	8100	7030	6270	8350	10400	6540
2	8000	8210	8030	5710	18400	16000	7130	7050	6210	8280	10400	6460
3	7930	7830	8030	5580	15600	15700	6680	6900	6170	8300	10500	6480
4	7950	7770	8100	5540	14600	14700	6440	6860	6150	8320	10500	6500
5	7930	7720	8080	6120	13600	14000	6250	6720	6370	8350	10300	6660
6	7970	7680	7640	18300	13100	13000	5850	6640	6420	8320	10400	6480
7	7930 E	7620	6920	13800	12000	12300	5400	6560	6780	8300	10400	6310
8	8000 E	7570	7990	13300	11500	11800	4950	6500	6880	8030	10500	6290
9	8050	7570	8010	33500	11300	11400	4610	6480	6860	7750	10500	6330
10	8010	7750	7810	35400	11400	11100	4460	6460	6780	7510	10500	6290
11	8050	8010	7700	26200	12000	10800	4450	6440	6820	7340	10500	6120
12	8030	7860	7400	26200	12500	9920	4590	6500	6800	7340	10000	6100
13	8050	7830	7230	45700	11900	9450	4580	6480	6760	7340	9650	5980
14	8100	7920	7170	28600	11700	9280	4500	6620	7110	7530	9650	5820
15	8050	8210	7210	21500	18400	8900	4350	6660	7230	7720	9650	5910
16	8080	8030	7210	18700	60500	8640	4840	6660	7210	7970	9310	5910
17	8230	7960	7190	17100	100000 E	8390	5440	6660	7150	8210	8780	5910
18	8410	7940	7210	16100	56200	8320	5970	6740	7190	8480	8640	6440
19	8670	7990	7210	15600	41300	7940	6250	6580	7150	8690	8640	9610
20	8670	8010	7250	15100	37400	7590	6350	6540	7150	8710	8280	11700
21	8620	7990	7170	14800	54900	7510	6290	6520	7150	8690	7990	8760
22	8580	8050	7210	14500	54300	7530	6580	6460	7150	8690	8030	7280
23	8740	8080	6840	14300	51700	7490	7010	6460	7340	8670	8010	6760
24	8640	8010	6760	14300	41200	7900	7150	6560	7490	8670	7990	6390
25	8530	8010	6560	15600	35500	7320	7440	6560	7640	8640	7970	6210
26	8530	8080	6480	21200	28100	7190	7970	6520	7920	8640	7570	6170
27	8600	8050	6540	17900	21300	7400	8600	6560	8010	8670	7170	6080
28	8410	8010	7130	21900	18300	7170	8170	6480	8140	8600	7170	5930
29	8480	8010	7290	34900		6840	7380	6370	8460	9020	7230	5760
30	8350	8030	5930	33700		6820	7110	6370	8410	9850	6960	5620
31	8370		5780	31600		8600		6290		10300	6560	
Mean	8265	7934	7262	19630	29040	9929	6163	6588	7106	8364	9037	6627
Ac-Ft	508200	472100	446500	1207000	1613000	610500	366700	405100	422800	514300	555700	394300

E — Estimated NR — No Record

Total Discharge in Acre-Feet 7516000

TABLE 59

DAILY MEAN DISCHARGE
MOULTON WEIR SPILL TO BUTTE BASIN

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0							
2					0							
3					0							
4					0							
5					0							
6					0							
7					0							
8					0							
9					0							
10					0							
11					0							
12	N	N	N	N	0	N	N	N	N	N	N	N
13	O	O	O	O	0	O	O	O	O	O	O	O
14					0							
15					0							
16	F	F	F	F	0	F	F	F	F	F	F	F
17	L	L	L	L	4250	L	L	L	L	L	L	L
18	O	O	O	O	3500	O	O	O	O	O	O	O
19	W	W	W	W	0	W	W	W	W	W	W	W
20					0							
21					0							
22					0							
23					0							
24					0							
25					0							
26					0							
27					0							
28					0							
29												
30												
31												
Mean	0	0	0	0	277	0	0	0	0	0	0	0
Ac-Ft.	0	0	0	0	15370	0	0	0	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 15370

TABLE 60

DAILY MEAN DISCHARGE
SACRAMENTO RIVER OPPOSITE MOULTON WEIR

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8680					18100	8770	6680	6110	7730	9430	6470
2	8570					16700	7710	6660	6020	7740	9470	6440
3	8340					16300	7140	6640	5970	7740	9590	6460
4	8340					15600	6810	6520	5910	7780	9650	6470
5	8360					14700	6610	6460	6060	7780	9590	6570
6	8340					13900	6320	6340	6240	7820	9590	6540
7	8330					13100	5910	6340	6410	7780	9590	6370
8	8340					12600	5390	6220	6560	7710	9650	6320
9	8360					12200	4920	6220	6570	7410	9700	6310
10	8290					11800	4590	6260	6490	7250	9740	6340
11	8310					11500	4500	6260	6490	7040	9740	6110
12	8290	N	N	N	N	10900	4570	6290	6510	7000	9570	6090
13	8340	O	O	O	O	10200	4540	6290	6490	6950	9030	6060
14	8400	T	T	T	T	9980	4400	6320	6630	6970	9020	5890
15	8400					9670	4220	6420	6810	7200	9030	5910
16	8440	C	C	C	C	9400	4340	6410	6810	7320	8980	5940
17	8490	O	O	O	O	9070	5110	6420	6760	7580	8420	5920
18	8640	M	M	M	M	8870	5550	6410	6750	7740	8230	6220
19	8830	P	P	P	P	8680	5840	6420	6760	8030	8220	7130
20	8980	U	U	U	U	8250	6070	6310	6680	8120	8120	11400
		T	T	T	T							
21		E	E	E	E	8110	6010	6310	6690	8070	7710	9630
22		D	D	D	D	8030	6120	6260	6680	8030	7730	7780
23						7910	6440	6240	6730	8030	7740	7200
24						8250	6640	6320	6950	8050	7690	6760
25						7910	6810	6320	7020	8050	7670	6490
26	8600 E					7660	7370	6260	7270	8050	7510	6390
27						7670	7760	6260	7410	8110	6990	6290
28						7690	7780	6240	7420	8070	6950	6190
29						7440	7160	6170	7730	8120	6970	6020
30						7230	6780	6170	7740	8750	6950	5860
31						7980		6120		9300	6510	
Mean	8505					10560	6073	6341	6689	7785	8541	6652
Ac-Ft	523000					649400	361400	389900	398000	478700	525200	395800

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 61

DAILY MEAN DISCHARGE
COLUSA WEIR SPILL TO BUTTE BASIN

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	184							
2				0	0							
3				0	0							
4				0	0							
5				0	0							
6				0	0							
7				0	0							
8				0	0							
9				0	0							
10				1970	0							
11				642	0							
12	N	N	N	0	0	N	N	N	N	N	N	N
13	O	O	O	4440	0	O	O	O	O	O	O	O
14				5710	0							
15				7.9	0							
16	F	F	F	0	1320	F	F	F	F	F	F	F
17	L	L	L	0	31500	L	L	L	L	L	L	L
18	O	O	O	0	38300	O	O	O	O	O	O	O
19	W	W	W	0	16100	W	W	W	W	W	W	W
20				0	7660							
21				0	9710							
22				0	19700							
23				0	16300							
24				0	11600							
25				0	8110 E							
26				0	2420							
27				0	11							
28				0	0							
29				53								
30				1620								
31				1650								
Mean	0	0	0	519	5818	0	0	0	0	0	0	0
Ac-Ft	0	0	0	31920	323100	0	0	0	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 355000

TABLE 62

DAILY MEAN DISCHARGE
BUTTE CREEK NEAR DURHAM

In second feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				NR	344	508	425	190	65	4.4	0	9.5
2				NR	339	514	425	201	54	3.7	0.2	9.5
3				NR	334	526	410	186	42	4.4	1.9	13
4				NR	330	520	374	209	44	4.4	3.7	22
5				NR	330	503	364	205	42	5.1	3.0	43
6				NR	330	508	354	193	52	5.9	5.9	16
7				NR	330	508	335	154	56	5.9	5.1	16
8				NR	325	503	311	147	48	13	5.1	10
9				NR	E 334	486	302	137	48	8.5	6.7	10
10				838	E 349	463	293	144	85	6.7	3.7	10
11			NR	687	349	452	266	134	60	8.5	3.0	6.7
12			NR	1900	316	441	249	125	72	6.7	2.5	1.5
13			NR	1180	262	436	237	125	90	5.1	2.5	4.4
14			NR	623	335	431	225	104	87	5.9	2.5	13
15			NR	452	497	420	221	87	80	3.0	2.5	34
16			NR	394	3260	404	213	101	60	1.9	3.0	101
17			NR	369	2800	399	193	113	40	1.9	1.0	144
18			NR	359	2050	394	190	107	15	0.2	1.4	179
19			NR	359	1500	379	179	93	9.5	0	5.9	197
20			NR	349	1100	369	179	87	12	0	5.9	151
21			NR	349	1090	364	179	90	16	0	5.9	128
22			NR	349	845	369	179	85	16	0	6.7	116
23			NR	344	680	425	171	93	22	2.5	6.7	113
24			NR	344	610	436	161	93	12	0.7	6.7	107
25			NR	364	561	404	186	96	6.7	2.5	7.6	104
26			NR	364	526	431	293	80	13	1.1	5.9	101
27			NR	354	508	384	237	90	16	4.4	4.4	82
28			NR	384	497	369	205	80	19	5.1	10	58
29			NR	364		369	201	75	15	6.7	22	34
30			NR	364		436	193	67	6.7	5.1	18	34
31			NR	354		458		60		3.0	9.5	
Mean					755	439	258	121	40.1	4.1	5.5	61.6
Ac-Ft					41910	26990	15370	7440	2388	251	335	3665

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 63

DAILY MEAN DISCHARGE
BUTTE SLOUGH AT OUTFALL GATES

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	219	31	248	0	188 E	627	289	360	0	18	102
2	0	202	51	244	0	319 E	604	351	257	0	17	114
3	0	231	41	237	0	285 E	667	443	236	0	13	118
4	0	196	60	232	0	291	633	495	133	13	2.5	160
5	18	144	94	500	0	388	564 E	493	77	26	0.2	203
6	78	151	138	0	0	422	513 E	509	100	33	0.9	224
7	101	144	138	0	34	530	296 E	507	79	18	6.4	258
8	117	131	86	405	91	576	236 E	493	49	11	6.1	322
9	138	131	117	0	80	604	341 E	478	24	13	3.6	356
10	170	101	117	0	63	593	208 E	437	8.0	13	3.8	352
11	170	69	117	0	129 E	576	211 E	458	3.8	14	3.4	372
12	189	94	123	0	147 E	576	208 E	473	9.4	27	2.5	366
13	225	94	157	0	165	616	203 E	472	36	44	0.3	332
14	231	78	138	0	200	519	120 E	465	42	53	0.4	312
15	249	18	123	0	51	462	21 E	468	56	31	26	292
16	242	69	101	0	0	456	2.8E	484	53	28	45	273
17	225	101	94	314 E	0	439	0	479	48	35	56	231
18	196	94	225	484 E	0	422	0	472	16	37	60	283
19	164	86	73	410 E	0	416	0	477	0.9	34	62	300
20	138	69	83	382	0	439	0	504	15	33	61	0
21	164	41	93	376	0	410	0	539	22	34	72	439
22	170	18	109	314	0	416	0	491	33	34	73	661
23	164	0	115	291	0	422	0	447	23	33	80	610
24	189	0	125	296	0	365	0	418	1.6	27	124	542
25	183	51	126	194	0	467	0	437	0	13	122	456
26	170	31	131	0	0	507	0	482	0	20	105	376
27	183	0	231	0	0	462	49	497	0	32	69	302
28	183	18	227	0	0	456	169	508	0	54	48	274
29	183	18	240	0		450	212	515	0	24	45	251
30	219	18	252	0		479	259	457	0	14	45	131
31	202		255	0		410		417		13	59	
Mean	150	87.2	129	159	34.3	450	205	466	56.1	24.5	39.7	300
Ac-Ft	9245	5191	7956	9773	1904	27690	12190	28670	3338	1509	2440	17880

E — Estimated NR — No Record Total Discharge in Acre-Feet 127800

TABLE 64

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT MERIDIAN

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8330					19700	9020	6200 E	6260	7430	9370	6300
2	8250					17400	8520	6500 E	6090	7390	9570	6290
3	8070					16400	7840 E	6700 E	5950	7380	9640	6300
4	8020					15800	7450 E	6800 E	5830	7470	9710	6400
5	8040					15100	7170	6800 E	5780	7550	9680	6570
6	8040					14400	6880	6600 E	6050	7570	9590	6690
7	8060					13600	6440	6600 E	6120	7510	9640	6570
8	8080					13100	5880	6500 E	6320	7450	9700	6530
9	8110					12600	5270	6500 E	6320	7150	9810	6560
10	8070					12200	4840	6600 E	6240	6950	9820	6640
11	8070					11900	4800 E	6600 E	6170	6660	9830	6490
12	8060	N	N	N	N	11500	4800 E	6700 E	6180	6610	9790	6390
13	8090	O	O	O	O	10900	4800 E	6660	6230	6610	9200	6340
14	8150	T	T	T	T	10400	4600 E	6700	6310	6560	8950	6110
15	8160					10100	4300 E	6840	6580	6750	9010	6060
16	8180	C	C	C	C	9810	4100 E	6830	6570	6870	9120	6100
17	8260	O	O	O	O	9500	4700 E	6830	6550	7160	8640	6060
18	8370	M	M	M	M	9250	5200 E	6800	6460	7360	8270	6370
19	8550	P	P	P	P	9110	5600 E	6860	6460	7700	8140	7150
20	8710	U	U	U	U	8760	5800 E	6810	6360	7840	8120	10700
		T	T	T	T							
21	8720	E	E	E	E	8490	5800 E	6720	6410	7830	7700	11700
22	8670	D	D	D	D	8400	5800 E	6630	6370	7760	7600	9710
23	8660					8290	6100 E	6520	6360	7750	7660	8380
24	8720					8340	6400 E	6510	6530	7800	7690	7740
25	8690					8400	6500	6560	6590	7750	7670	7260
26	8640					8060	6900 E	6560	6810	7800	7600	6960
27	8620					7970	7300 E	6560	7020	7860	7050	6790
28	8640					8020	7400 E	6510	7140	7900	6800	6650
29	8560					7850	6800 E	6480	7340	7820	6800	6440
30	8530					7680 E	6200 E	6410	7450	8270	6850	6180
31	8470					7750 E		6400		9030	6440	
Mean	8342					10990	6170	6622	6428	7469	8563	7014
Ac-Ft.	512900					675900	363400	407200	382500	459300	526500	417400

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 65

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 70 DRAINAGE TO SACRAMENTO RIVER

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	0	0	0	16	22	4.9	62	67	24	62	77
2	11	0	0	3.2	0	26	0	65	67	26	53	60
3	0	9.5	0	4.7	2.8	24	1.8	65	57	26	42	75
4	13	0	0	4.0	10	20	5.2	55	52	41	48	87
5	0	0	0	0	3.0	11	1.6	39	55	88	51	84
6	4.0	0	0	4.7	8.5	20	0	32	48	90	59	80
7	7.2	13	9.5	4.9	0	12	0	41	34	82	47	75
8	9.1	0	0	5.7	25	17	0	68	29	57	61	72
9	0	0	0	4.6	11	14	0	49	31	52	79	73
10	0	0	0	8.2	0	15	0	49	44	54	80	73
11	0	0	0	6.4	14	10	9.4	54	37	58	77	68
12	8.0	0	10	5.8	0	8.0	3.9	54	42	63	73	58
13	0	14	0	9.8	5.5	23	0	55	42	79	36	70
14	0	0	0	5.0	0	8.9	0	55	44	82	60	60
15	12	0	0	9.5	0	4.0	7.2	55	46	79	60	65
16	1.2	0	0	3.8	0	17	18	61	40	84	60	67
17	0	5.2	0	4.7	48	4.0	22	66	39	75	72	65
18	0	0	0	6.0	89	4.5	22	67	36	87	68	72
19	0	6.4	0	0	55	18	21	87	23	79	85	52
20	21	0	0	8.1	35	0	33	97	28	74	76	19
21	3.2	0	0	0	49	0	38	61	27	68	96	12
22	0	0	0	0	40	0	27	59	27	62	68	3.1
23	16	6.4	0	13	41	19	8.4	60	21	53	65	19
24	8.7	0	0	0	38	11	7.5	72	25	50	63	35
25	0	0	0	10	33	12	21	68	28	53	63	34
26	0	0	0	12	19	13	38	68	57	55	62	50
27	0	6.4	0	0	31	0	26	53	66	45	45	53 E
28	0	0	0	2.9	23	0	38	53	49	40	63	47 E
29	0	12	21	2.8		0	79	67	44	40	63	41 E
30	0	0	6.3	8.8		0	59	67	32	50	63	46 E
31	7.2		3.1	0		8.1		67		45	59	
Mean	4.5	2.4	1.6	4.8	21.3	11.0	16.4	60.4	41.2	60.0	63.2	56.4
Ac-Ft	277	145	99	295	1184	677	976	3711	2454	3691	3886	3356

E — Estimated NR — No Record Total Discharge in Acre-Feet 20750

TABLE 66

DAILY MEAN DISCHARGE
TISDALE WEIR SPILL TO SUTTER BYPASS

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	4140							
2				0	841							
3				0	0							
4				0	0							
5				0	0							
6				0	0							
7				0	0							
8				0	0							
9				0	0							
10				2050	0							
11				4400	0							
12	N	N	N	945	0	N	N	N	N	N	N	N
13	O	O	O	2120	0	O	O	O	O	O	O	O
14				6750	0							
15				4460 E	0							
16	F	F	F	39 E	11	F	F	F	F	F	F	F
17	L	L	L	0	8910	L	L	L	L	L	L	L
18	O	O	O	0	13500	O	O	O	O	O	O	O
19	W	W	W	0	10900	W	W	W	W	W	W	W
20				0	9340							
21				0	9040							
22				0	10400							
23				0	10400							
24				0	9650							
25				0	8980							
26				0	7780							
27				0	4990							
28				0	680							
29				204								
30				4000								
31				4920								
Mean	0	0	0	964	3913	0	0	0	0	0	0	0
Ac-Ft.	0	0	0	59280	217300	0	0	0	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 276600

TABLE 67

DAILY MEAN DISCHARGE
SACRAMENTO RIVER ABOVE RECLAMATION DISTRICT 108 PUMPING PLANT

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8180					20000 E	9150	5650	NR	NR	NR	NR
2	8150					18300 E	9250	5560	NR	NR	NR	NR
3	8000					17000 E	8300	5630	NR	NR	NR	NR
4	7810 E					16300 E	7810	5640	NR	NR	NR	NR
5	7790 E					15600	7550	5590	NR	NR	NR	NR
6	7810 E					14900	7250	5580	NR	NR	NR	NR
7	7790 E					14000	6790	5550	NR	NR	NR	NR
8	7860 E					13500	6200 E	5650	NR	NR	NR	NR
9	7890 E					13000	5350 E	5480	NR	NR	NR	NR
10	7850 E					12500	4800 E	5620	NR	NR	NR	NR
11	7820 E					12200	4400 E	5450	NR	NR	NR	NR
12	7780 E	N	N	N	N	12000	4350 E	NR	NR	NR	NR	NR
13	7970 E	O	O	O	O	11300	4300 E	NR	NR	NR	NR	NR
14	8010 E	T	T	T	T	10400	3950 E	NR	NR	NR	NR	NR
15	8010 E					10400	3500 E	NR	NR	NR	NR	NR
16	7960 E	C	C	C	C	9990	3250 E	NR	NR	NR	NR	NR
17	8040	O	O	O	O	9690	3380 E	NR	NR	NR	NR	NR
18	8100	M	M	M	M	9320	3790	NR	NR	NR	NR	NR
19	8200	P	P	P	P	9170	4300	NR	NR	NR	NR	NR
20	8500	U	U	U	U	8860	4410	NR	NR	NR	NR	NR
		T	T	T	T							
21	8470	E	E	E	E	8580	4480	NR	NR	NR	NR	NR
22	8430	D	D	D	D	8520	4340	NR	NR	NR	NR	NR
23	8470					8350	4230	NR	NR	NR	NR	NR
24	8490					8290	4670	NR	NR	NR	NR	NR
25	8470					8560	4820	NR	NR	NR	NR	NR
26	8430					8190	5340	NR	NR	NR	NR	NR
27	8430					8040	5600	NR	NR	NR	NR	NR
28	8430					8130	6200	NR	NR	NR	NR	NR
29	8290					8150	6420	NR	NR	NR	NR	NR
30	8260					7780	5930	NR	NR	NR	NR	NR
31	8220					7800		NR	NR	NR	NR	NR
Mean	8126					11250	5470					
Ac-Ft.	499700					691900	325500					

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 68

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 108 DRAINAGE TO SACRAMENTO RIVER

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	28	0	0	97	86	0	354	310	271	366	363
2	36	0	0	0	0	112	0	265	260	267	325	370
3	0	0	0	0	0	0	0	473	271	222	331	427
4	33	0	0	0	0	75	0	309	274	335	315	422
5	0	0	0	109	0	0	0	353	229	330	357	375
6	34	0	0	96	0	0	0	345	248	253	314	544
7	0	0	0	0	0	0	0	350	428	272	3y1	453
8	39	0	0	72	151	150	0	350	214	267	301	348
9	0	0	0	0	0	0	0	325	246	257	403	347
10	39	0	0	0	0	0	167	654	256	291	313	343
11	0	0	0	113	90	136	0	310	274	272	362	316
12	0	0	0	0	70	0	175	323	274	466	297	317
13	40	0	0	0	0	0	0	356	277	248	355	317
14	0	0	0	0	0	0	177	372	474	288	306	264
15	0	0	0	80	92	137	94	368	217	282	363	161
16	48	0	0	0	97	0	0	314	214	284	424	208
17	0	0	0	0	189	0	0	743	279	280	353	102
18	0	0	0	81	215	0	107	351	276	221	368	312
19	0	0	0	0	268	0	189	367	278	432	365	287
20	60	0	0	0	198	0	146	376	259	261	357	175
21	0	0	0	83	131	0	146	370	459	252	360	68
22	0	0	0	0	153	203	0	387	265	264	365	117
23	0	0	31	0	30	0	199	384	234	263	460	140
24	0	0	142	0	31	0	244	771	241	316	355	92
25	0	0	0	128	5.1	0	226	358	219	254	360	67
26	0	0	0	0	100	0	517	354	278	502	370	44
27	70	0	113	0	99	0	291	355	254	262	364	39
28	0	0	0	0	0	0	315	349	354	262	372	41
29	0	0	0	0		199	332	266	201	306	369	29
30	0	0	0	0		0	339	494	270	308	498	33
31	0		0	0		0		352		304	390	
Mean	12.9	0.9	9.2	24.6	72.0	35.4	122	390	278	293	361	237
Ac-Ft.	791	56	567	1511	3999	2178	7267	24000	16530	18030	22210	14120

E — Estimated NR — No Record

Total Discharge in Acre-Feet 111300

TABLE 69

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 787 DRAINAGE TO SACRAMENTO RIVER

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15				RECORDS SUFFICIENT TO COMPUTE ONLY MONTHLY FLOWS								
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean	1.0	0.8	0.8	3.8	23.0	10.8	22.7	53.1	42.7	49.8	50.4	11.8
Ac-Ft.	60	45	49	234	1278	663	1348	3264	2542	3061	3099	705

E — Estimated NR — No Record

Total Discharge in Acre-Feet 16350

TABLE 70

DAILY MEAN DISCHARGE
STONE CORRAL CREEK NEAR SITES

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0.1		0.3	3.3	1.1	0.4				
2		0	0.1		0.3	3.3	1.1	0.3				
3		0	0.1	0.1 E	0.3	3.0	1.2	0.3				
4		0	0.1		0.3	2.7	1.1	0.2				
5		0	0.1	2.1	0.2	2.7	1.0	0.2				
6		0	0.1	4.7	0.2	3.0	0.8	0.1				
7		0	0.1	1.0 E	0.2	2.8	0.6	0.1				
8		0	0.1	4.4	0.2	2.7	0.5	0.1				
9		0	0.1	30	0.2	2.6	0.6	0				
10		0	0.1	3.9	0.3	2.4	0.5	0				
11		0	0.1	1.3	0.3	2.0	0.5	0				
12	N	0	0.1	1.1	0.1	1.9	0.6	0	N	N	N	N
13	O	0	0.1	1.4	0.1	2.0	0.5	0	O	O	O	O
14		0	0.1	0.9	0	1.8	0.5	0				
15		0	0.1	0.9	20	1.6	0.4	0				
16	F	0	0.1	0.8	469	1.5	0.5	0	F	F	F	F
17	L	0	0.1	0.8	278	1.6	0.5	0	L	L	L	L
18	O	0		0.7	39	1.5	0.5	0	O	O	O	O
19	W	0		0.7	15	1.5	0.5	0	W	W	W	W
20		0		0.6	10	1.5	0.5	0				
21		0.1		0.6	20	1.4	0.4	0				
22		0.1		0.5	13	1.5	0.3	0				
23		0.1		0.6	7.0	1.5	0.3	0				
24		0.1	0.1 E	0.5	5.6	1.5	0.3	0				
25		0.1		0.5	4.8	1.4	0.4	0				
26		0.1		0.5	4.2	1.4	0.5	0				
27		0.1		0.5	3.7	1.3	0.5	0				
28		0.1		0.4	3.3	1.3	0.4	0				
29		0.1		0.4		1.3	0.3	0				
30		0.1		0.3		1.5	0.4	0				
31				0.3		1.2		0				
Mean	0	0.0	0.1	2.0	32.0	2.0	0.6	0.1	0	0	0	0
Ac-Ft	0	2	6	121	1776	120	34	3	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 2062

TABLE 71

DAILY MEAN DISCHARGE
COLUSA BASIN DRAIN AT HIGHWAY 20

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	374	487	345	421	167	457	581	1050	703	576	820	1170
2	367	528	327	381	160	405	504	1100	609	574	854	1220
3	325	498	329	298	152	375	475	1160	592	562	869	1290
4	339	510	341	245	151	320	473	1200	590	589	828	1350
5	301	503	337	393	153	284	481	1180	588	625	797	1350
6	288	465	330	1280	150	260	403	1230	594	610	872	1340
7	315	426	330	1260	149	240	398	1340	577	594	912	1350
8	328	441	331	952	148	226	317	1280	599	606	934	1360
9	330	487	334	1350	148	225	369	1230	574	637	956	1360
10	301	505	334	1530	150	217	400	1210	531	672	987	1280
11	335	531	335	1480	163	205	336	1230	574	719	942	1200
12	358	449	337	1420	159	194	224	1160	611	730	946	1140
13	391	393	334	1220	148	195	240	1090	614	709	955	1110
14	439	422	332	956	149	183	129	1130	513	650	962	1040
15	392	427	350	816	154	168	71	1150	524	692	977	956
16	382	431	339	718	963	159	73	1090	539	768	980	840
17	405	433	331	595	2120	156	33	1060	562	833	1010	786
18	410	425	381	505	2690	160	0	1050	554	799	989	962
19	418	416	398	429	3300	151	86	1030	616	796	1030	1350
20	427	446	391	368	3590	141	119	1040	615	800	1160	1020
21	407	462	434	328	3420	144	274	1020	610	751	1300	921
22	342	436	510	276	3110	280	303	914	615	708	1310	748
23	349	413	439	255	2730	307	398	886	621	704	1240	551
24	346	429	409	229	2020	293	486	914	541	747	1180	487
25	332	425	447	222	1310	265	598	947	495	776	1100	430
26	351	411	441	228	941	350	768	925	523	775	1020	418
27	385	377	376	227	723	405	865	945	552	839	984	391
28	443	343	343	217	567	506	871	935	586	816	1010	351
29	396	311	317	195		592	910	865	603	772	1080	335
30	403	311	304	179		641	941	811	568	753	1100	336
31	432		355	176		679		741		796	1090	
Mean	368	438	363	618	1064	296	404	1062	580	709	1006	948
Ac-Ft	22630	26060	22300	37980	59080	18210	24050	65280	34500	43590	61870	56410

E — Estimated NR — No Record Total Discharge in Acre-Feet 472000

TABLE 72

DAILY MEAN DISCHARGE
COLUSA BASIN DRAIN AT KNIGHTS LANDING

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	209	432	325	385 E	0 E	0 E	722	740	776	292	592	1130
2	290	NR	325	440 E	0 E	0 E	626	1190	717	292	675	1210
3	294	NR	325	436 E	0 E	0 E	558	1200	532	296	724	1390
4	260	NR	312	378 E	0 E	0 E	590	1190	404	296	756	1560
5	260	NR	312	222 E	0 E	0 E	614	1210	376	381	725	1710
6	256	NR	297	631 E	528 E	0	706	1220	439	448	656	1740
7	214	NR	297	864 E	634 E	0	741	1300	409	370	731	1710
8	188	NR	328	766 E	634 E	0	386	1310	396	332	863	1740
9	262	NR	338	854 E	540 E	220	43	1250	446	341	895	1770
10	296	NR	351	0 E	706 E	388	135	1260	452	364	895	1780
11	265	NR	361	0 E	468 E	388	405	1260	406	407	895	1710
12	257	NR	381	0 E	0 E	422	403	1250	384	507	857	1640
13	658	NR	351	0 E	0 E	484	175	1120	441	553	780	1460
14	808	NR	354	0 E	0 E	440	59	1040	488	464	799	1400
15	600	NR	351	0 E	0 E	400	0.1	1180	467	464	879	1390
16	504	NR	361	0 E	0 E	350	0	1230	365	497	900	1280
17	456	NR	347	0 E	0 E	310	0	1220	332	599	917	1050
18	456	NR	347	0 E	0 E	276	0	1210	336	692	931	1010
19	440	NR	371	0 E	0 E	276	0	1190	388	699	881	1450
20	432	496	406 E	0 E	0 E	166	0	1090	463	623	958	1670
21	408	520	425 E	0 E	0 E	170	0	1150	488	600	1150	936
22	400	520	487 E	0 E	0 E	124	0	1090	441	561	1260	930
23	368	512	554 E	546 E	0 E	296	0	995	412	513	1300	876
24	344	496	520 E	564 E	0 E	334	0	990	412	583	1290	816
25	336	496	491 E	608 E	0 E	320	0	990	345	628	1250	742
26	328	516	499 E	362 E	0 E	254	68	995	312	667	1130	679
27	336	479	499 E	0 E	0 E	306	468	990	312	684	1000	645
28	360	414	444 E	0 E	0 E	332	682	995	341	714	916	589
29	400	374	368 E	0 E		378	725	995	469	715	987	507
30	384	331	341 E	0 E		434	725	975	381	621	1110	447
31	384		344 E	0 E		704		841		564	1130	
Mean	369		381	228	125	251	294	1118	431	509	930	1232
Ac-Ft	22720		23430	14000	6962	15420	17520	68760	25650	31270	57190	73320

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 73

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 787 DRAINAGE TO COLUSA BASIN DRAIN

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15	RECORDS SUFFICIENT TO COMPUTE ONLY MONTHLY FLOWS											
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean	0.6	0.4	0.5	1.3	4.5	1.9	11.6	22.9	12.2	11.4	26.9	5.6
Ac-Ft	39	25	28	81	252	114	689	1408	726	698	1653	336

E — Estimated NR — No Record

Total Discharge in Acre-Feet 6049

TABLE 74

DAILY MEAN DISCHARGE
FREMONT WEIR SPILL TO YOLO BYPASS

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0							
2					0							
3					0							
4					0							
5					0							
6					0							
7					0							
8					0							
9					0							
10					0							
11					0							
12	N	N	N	N	0	N	N	N	N	N	N	N
13	O	O	O	O	0	O	O	O	O	O	O	O
14					0							
15					0							
16	F	F	F	F	0	F	F	F	F	F	F	F
17	L	L	L	L	0	L	L	L	L	L	L	L
18	O	O	O	O	8830 E	O	O	O	O	O	O	O
19	W	W	W	W	58100	W	W	W	W	W	W	W
20					56400							
21					37900							
22					28700							
23					23100							
24					18200							
25					12400							
26					5500							
27					1230 E							
28					5.0 E							
29												
30												
31												
Mean	0	0	0	0	8942	0	0	0	0	0	0	0
Ac-Ft	0	0	0	0	496600	0	0	0	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 496600

TABLE 75

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1500 DRAINAGE TO SACRAMENTO SLOUGH

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	93	0	0	0	63	260	24	407	412 E	391	411	743
2	61	0	0	31	78	193	0	416	355 E	393	410	712 E
3	62	0	97	0	42	136	24	398	410 E	384	400	728 E
4	56	0	43	29	51	149	30	466	420 E	379	461	643
5	61	0	25	0	0	157	26	487	422 E	386	425	619
6	0	0	22	65	58	154	26	576	402 E	369	440	624
7	50	0	20	0	48	76	22	602	349	367	454	642
8	48	3.7	0	43	48	128	16	582	357	369	567	665
9	48	11	41	107	81	56	18	582	373	379	589	665
10	32	16	0	127	109	109	29	563	377	393	642	647
11	34	13	37	0	103	89	745	582	384	417	582	647
12	38	0	0	229	88	97	78	582	392	415	582	654
13	36	0	35	93	68	75	0	576	409	421	491	619
14	36	17	0	122	65	60	0	556	414	432	526	563
15	32	16	41	106	72	91	0	556	417	416	550	537
16	32	7.3	0	107	371	66	0	571	420	447	530	498
17	34	7.3	43	93	451	63	30	550	425	425	536	508
18	36	17	0	108	591	64	36	589	432	413	526	583
19	34	19	43	26	522	28	40	582	435	403	569	569
20	34	16	0	73	444	50	44	602	428	425	620	522
21	28	16	43	49	411	49	113	571	418	417	614	291
22	32	14	0	75	476	45	138	555	423	406	593	296
23	28	15	35	59	363	41	140	516	434	408	630	252
24	28	15	0	60	313	44	160	472	418	419	619	216
25	26	70	37	61	301	42	212	522	430	426	613	170
26	24	49	0	67	304	0	566	506	431	415	647	118
27	26	0	37	48	299	18	183	501	408	425	681	169
28	26	0	0	59	270	38	132	506	413	403	718	96
29	0	0	33	50		24	398	501	403	396	738	0
30	0	39	0	52		35	432	504	390	393	707	0
31	0		33	0		37		460		395	697	
Mean	34.7	12.0	21.5	62.5	218	79.8	122	530	407	404	567	467
Ac-Ft.	2132	717	1319	3846	12080	4907	7263	32610	24200	24850	34850	27760

E — Estimated NR — No Record

Total Discharge in Acre-Feet 176500

TABLE 76

DAILY MEAN DISCHARGE
SACRAMENTO SLOUGH AT SACRAMENTO RIVER

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	348	208	215	363	3390	F	447	600	903 E	366	541	863
2	311	242	231	308	4910	F	425	620	847 E	387	467	861 E
3	319	227	266	244	5420	5220	446	775	749 E	466	590	970 E
4	258	207	250	226	4580	5240	383	792	675 E	512	636	1010
5	249	232	264	245	2910	4600	350	838	632 E	428	660	1110
6	247	199	249	193	1590	3850	375	893	612 E	516	610	1210
7	266	198	246	217	1200	2640	364	966	621	568	607	1240
8	237	213	242	601	1040	2060	372	963	542	544	632	1240
9	180	160	279	742	869	1870	329	1000	554	531	677	1180
10	229	187	249	0	823	1400	292	932	555	546	679	1090
11	228	207	230	331	603	1360	336	912	568	546	670	1060
12	214	250	210	1800	790	1190	565	941	568	548	609	1060
13	161	252	206	F	748	1170	168	980	531	567	615	1050
14	226	230	199	F	749	980	156	964	510	566	608	953
15	169	232	195	F	745	850	144	991	533	593	604	902
16	226	225	180	F	[illegible]	707	145	1020	539	598	601	827
17	224	225	179	F		550	160	1040	551	580	682	734
18	166	237	177	6060		490	195	1070	600	510	696	730
19	226	217	191	6940	F	480	179	1090	600	485	690	NR
20	215	201	191	5830	[illegible]	310	222	1140	605	471	732	NR
21	235	253	261	4310	[illegible]	376	204	1170	634	481	824	NR
22	268	254	218	2840	[illegible]	346	239	1200	641	498	864	NR
23	246	238	228	2040	E	300	238	1060	638	517	896	NR
24	230	238	230	1650	[illegible]	270	216	906	544	534	954	NR
25	194	238	274	1340		375	217	978	444	599	1060	NR
26	257	204	288	995		358	266	1050	425	578	998	NR
27	224	237	281	692		358	273	1180	411	559	1050	514
28	225	235	232	988		469	557	1150	408	542	1060	352
29	240	218	275	616		413	611	1100	421	561	987	244
30	191	198	292	443		380	619	1100	390	597	911	201
31	245		281	1930		491		968		572	892	
Mean	234	222	236				316	980	575	528	745	
Ac-Ft	14390	13210	14500				18830	60280	34220	32460	45820	

E — Estimated NR — No Record
F - Flooded

Total Discharge in Acre-Feet

TABLE 77

DAILY MEAN DISCHARGE
BUTTE SLOUGH AT MAWSON BRIDGE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	79	116	68	106	1310	3670	143	226	221	171	240	134
2	77	111	69	103	1160	2610	147	262	266	180	236	130
3	66	110	67	96	969	1970	117	268	252	178	215	127
4	62	92	72	89	837	1640	91	266	230	215	199	137
5	65	79	78	76	745	1340	68	279	272	222	210	131
6	72	76	78	125	659	1140	51	272	282	213	233	140
7	76	75	64	465	564	958	36	266	260	201	230	144
8	81	75	68	543	479	827	16	244	262	219	217	143
9	86	73	73	630	430	732	24	225	240	230	223	134
10	89	72	71	992	403	642	68	234	246	215	232	125
11	89	78	62	1220	399	562	73	294	253	217	222	125
12	89	86	52	1460	449	508	68	265	257	230	200	117
13	93	84	46	1790	466	445	69	240	253	229	196	105
14	99	84	39	3780	428	378	59	237	255	228	217	91
15	102	86	36	5210	442	330	78	249	256	214	255	78
16	99	93	33	4390	720	296	74	277	250	229	233	69
17	104	89	31	3440	3110	268	66	268	259	226	223	66
18	111	81	54	2500	21300	250	68	253	247	233	217	70 E
19	117	76	106	1880	27900	135	72	272	282	236	215	69 E
20	123	76	115	1540	21600	113	75	260	277	236	213	233
21	128	77	141	1160	16600	94	62	252	276	233	223	337
22	126	76	178	1130	16400	87	46	259	276	229	230	245
23	125	74	184	1030	18100	81	44	256	255	225	232	172
24	129	69	193	962	16100	84	53	250	242	209	200	135
25	129	73	199	932	13400	103	76	262	211	217	158	100
26	123	72	197	1060	10200	92	102	266	152	236	141	77
27	122	72	184	1110	6350	80	186	265	141	246	124	60
28	127	73	149	1080	4860	82	184	274	139	226	137	53
29	122	72	152	1020		72	191	271	150	213	126	47
30	119	70	136	958		65	200	276	161	232	124	30
31	119		119	1130		70		240		234	135	
Mean	102	81.3	100	1355	6656	636	86.9	259	237	220	[illegible]	121
Ac-Ft	6244	4840	6177	83330	369700	39120	5171	15920	14130	13530	12416	7168

E — Estimated NR — No Record

Total Discharge in Acre-Feet 577800

TABLE 78

DAILY MEAN DISCHARGE
WADSWORTH CANAL AT BUTTE HOUSE ROAD

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	91	97	13	12	30	89	159	195	158	100	51	224
2	68	70	12	12	29	83	109	204	109	84	56	250
3	76	71	14	12	28	79	134	222	116	80	59	299
4	68	84	22	12	27	73	103	208	106	108	59	285
5	86	88	15	58	27	69	83	201	110	94	62	230
6	94	96	14	38	25	66	68	226	106	71	67	270
7	104	103	14	32	24	59	86	208	91	55	63	289
8	98	87	14	30	24	56	102	176	90	60	55	230
9	81	59	15	63	23	48	103	194	100	50	61	222
10	90	67	14	58	26	43	134	195	77	29	75	213
11	90	38	14	46	32	42	135	187	45	51	72	190
12	88	23	23	78	29	38	120	151	52 E	51	71	175
13	97	24	14	89	27	38	84	159	60 E	35	67	195
14	84	23	14	74	26	32	62	185	67 E	51	71	213
15	77	20	14	66	29	29	80	199	76 E	67	59	194
16	77	20	14	55	262	24	39	194	84 E	67	47	178
17	93	20	13	52	565	33	18	190	94	46	47	190
18	98	31	10	50	546	23	0.3	188	78 E	47	38	308
19	108	21	11	43	445	19	0.8	171	67	86	77	433
20	120	21	11	39	326	74	3.7	199	77	77	132	331
21	114	21	13	36	316	93	11	164	75	54	130	246
22	110	17	11	34	242	116	0	118	77	56	142	208
23	104	15	12	33	220	154	0	146	75	71	158	208
24	97	16	12	33	193	130	33	151	71	44	158	197
25	91	16	12	37	159	110	135	166	80	46	154	185
26	94	15	11	37	130	138	238	158	71	24	150	176
27	84	17	12	35	106	154	195	183	94	34	159	164
28	70	14	11	35	94	137	138	168	87	47	166	164
29	65	14	11	33		156	146	164	79	45	96	151
30	59	13	12	31		188	164	170	96	53	79	142
31	80		11	31		185		168		72	178	
Mean	88.9	40.7	13.3	41.7	143	83.2	89.5	181	85.6	59.8	92.2	225
Ac-Ft	5466	2422	819	2567	7954	5113	5323	11120	5094	3679	5671	13410

E — Estimated NR — No Record

Total Discharge in Acre-Feet 68640

TABLE 79

DAILY MEAN DISCHARGE
LITTLE LAST CHANCE CREEK NEAR CHILCOOT

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3	3.6	—	5.0 E	—	30	33	12	8.0	2.0	0.7	0.8
2	1.3	3.8	4.5 E	5.0 E		39	37	15	7.6	1.8	0.7	0.8
3	1.3	3.8	—	4.7		45	39	15	6.7	1.8	0.7	0.8
4	1.5	4.1	4.6	4.5		39	41	13	6.4	1.6	0.7	0.8
5	1.5	4.1	4.1	4.7		38	43	11	6.0	1.6	0.7	0.8
6	1.5	4.1	4.6	4.7		43	42	15	5.6	1.6	0.7	0.8
7	1.5	4.1	4.6	5.0	8.0 E	48	38	11	5.2	1.6	0.7	0.8
8	1.7	4.1	4.8	5.3		48	34	9.4	4.9	1.4	0.8	0.8
9	2.2	3.8	4.8	30		52	31	11	4.6	1.4	1.1	0.8
10	2.2	4.1	4.6	45		49	29	9.8	4.6	1.4	0.8	0.8
11	2.4	3.8	4.8	25		46	28	8.4	4.3	1.4	0.7	0.9
12	2.7	3.3	4.8	31		59	27	8.4	4.0	1.6	0.7	0.9
13	2.7	3.8	—	22		72	26	8.4	4.0	0.9	0.9	0.9
14	2.7	5.6	4.4 E	15	10 E	56	24	9.4	3.7	0.9	0.8	1.0
15	2.7	5.9	—	14	30 E	48	22	8.9	3.7	1.1	0.8	1.1
16	2.9	5.9	—	13	170	46	22	8.4	3.4	0.9	0.8	1.2
17	3.1	5.9	4.1	11	162	52	21	8.0	3.4	0.9	0.8	1.4
18	3.6	6.2	4.3	11	70	49	21	7.6	3.4	0.8	0.8	1.5
19	3.6	8.6	3.8	9.6 E	31	44	19	7.1	2.9	0.8	1.1	1.5
20	3.3	6.9	4.1	4.2 E	30	40	17	6.7	2.6	0.8	1.4	1.3
21	3.3	5.6	5.1	5.0 E	25	40	14	6.4	2.6	0.7	1.0	1.3
22	3.1	4.8	5.6	7.0 E	22	40	12	8.4	2.0	0.5	0.9	1.4
23	3.3	4.8	5.1	9.8	22	40	12	20	2.0	0.9	0.9	1.3
24	3.6	5.1	5.2 E	13	21	41	12	16	2.0	0.9	1.0	1.3
25	3.3	4.6	5.6	15	20	35	14	11	2.0	0.8	1.1	1.4
26	3.3	4.6	5.6	11	18	38	17	9.8	1.8	0.8	1.0	1.4
27	3.1	4.3	8.2	14	19	33	15	17	2.6	0.7	0.9	1.4
28	3.3	—	6.9	13	22	32	14	15	2.2	0.7	0.9	1.4
29	3.3	4.5 E	6.0 E	12	—	32	13	12	2.2	0.7	0.9	1.4
30	3.3	—	5.9	10 E	—	32	11	11	2.0	0.8	0.9	1.4
31	3.6	—	5.3	9.0 E	—	30	—	8.9	—	0.7	0.8	—
Mean	2.7	4.8	5.0	12.5	27.7	43.1	24.3	10.9	3.9	1.1	0.9	1.1
Ac-Ft.	163	283	305	771	1539	2650	1444	672	231	68	53	66

E — Estimated NR — No Record

Total Discharge in Acre-Feet 8245

TABLE 80

DAILY MEAN DISCHARGE
SMITHNECK CREEK NEAR LOYALTON

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.3	6.1	6.3	6.8	6.3	13	11	8.6	7.8	4.5	3.8	4.0
2	5.3	6.1	6.3	7.0 E	5.9	15	12	8.9	7.8	4.3	3.9	3.9
3	5.3	6.1	6.3	8.0 E	6.2	15	12	8.6	7.2	4.2	4.2	3.9
4	5.3	6.1	6.3	8.1 E	6.7	14	12	8.7	7.1	4.2	4.4	4.1
5	5.6	6.1	6.3	8.2 E	6.8	13	12	8.4	7.1	4.2	4.3	4.1
6	5.6	6.1	6.3	7.2 E	6.8	13	12	8.3	6.8	4.0	4.3	4.1
7	5.6	6.1	6.3	6.3	6.9	13	12	8.0	7.1	4.1 E	4.3	4.0
8	5.6	6.1	6.3	6.0	6.1	13	10	8.0	6.8	4.4 E	4.5	4.0
9	5.6	6.1	6.3	14	7.0	13	10	7.9	6.7	4.2 E	4.5	4.0
10	5.6	6.6	6.3	12	7.9	12	10	7.6	6.4	3.9 E	4.5	4.0
11	5.6	6.6	6.3	9.7 E	9.5 E	12	10	7.6	6.4	3.8 E	4.4	4.0
12	5.6	6.3	6.3	15 E	8.6 E	12	10	7.5	6.1	3.7 E	4.4	4.0
13	5.6	6.3	6.3	8.9 E	8.7 E	13	10	7.8	6.1	3.6 E	4.4	4.3
14	5.6	6.9	6.3	7.0 E	8.7 E	13	9.9	7.8	5.8	3.5 E	4.4	4.6
15	5.6	6.3 E	6.3	6.9 E	8.5	12	9.9	7.4	5.8	3.4	4.3	5.1
16	5.6	6.1 E	6.9	6.9 E	19	12	9.6	7.1	5.8	3.1	4.3	5.1
17	5.6	6.1 E	6.6 E	6.8	12	13	9.6	7.1	5.7	3.0	4.3	5.1
18	5.8	5.6 E	7.5	6.7	11	13	9.7	7.1	5.5	2.7	4.3	7.3
19	6.1	4.4 E	7.2	6.4	11	12	9.3	7.0	5.4	2.8	4.7	5.2
20	6.1	6.9	7.2	4.4	11	12	9.4	7.0	5.4	2.7	4.9	5.0
21	6.1	6.6	8.1	4.7	11	12	9.4	7.3	5.2	2.7	4.9	4.8
22	6.1	6.3	8.1	5.9	10	12	9.1	10	4.9	3.2	4.4	4.9
23	6.1	6.3	8.1	5.9	10	12	9.1	12	4.9	5.9	4.4	4.9
24	6.1	6.3	7.2	6.2	11	11	9.1	11	4.9	4.8	4.8	5.0
25	6.1	6.3	7.2	6.6	11	11	9.1	11	5.1	3.8	4.8	5.0
26	6.1	6.3	6.9	6.1	11	11	9.8	11	5.1	3.5	4.3	5.1
27	6.1	6.1	8.1	6.1	11	10	9.2	11	5.3	3.4	4.3	5.1
28	6.1	6.1	7.5	6.2	12	11	8.9	9.5	5.2	3.4	4.3	5.1
29	5.8	6.3	6.6	5.0		10	8.6	8.5	5.0	3.6	4.2	5.2
30	6.1	6.1	7.7	6.2		10	8.6	8.5	4.7	3.7	4.0	5.5
31	6.1		7.5	5.3		10		8.1		3.8	4.0	
Mean	5.8	6.2	6.9	7.3	9.3	12.0	10.0	8.5	6.0	3.7	4.4	4.7
Ac-Ft	355	368	422	449	519	750	598	524	355	230	269	278

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5117

TABLE 81

DAILY MEAN DISCHARGE
WEBBER CREEK NEAR SIERRAVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.
1	17	17	14	15	⊥	22	29	72	61	30	6.1	6.0
2	16	17	14	14	15 E	24	33	66	63	28	6.0	6.0
3	16	17	14	14 E	⊥	25	34	55	61	27	6.1	5.7
4	16	17	14	14 E	17	23	36	55	59	25	6.1	5.5
5	16	17	15	14 E	16	24	39	51	64	23	6.4	5.5
6	16	17	14	15	16	24	39	49	66	21	6.4	5.5
7	16	17	14	15	16	25	36	52	59	20	6.6	5.7
8	16	16	14	16	15	25	33	57	58	19	6.9	5.7
9	18	17	15	60	17 E	26	32	57	59	18	6.3	5.7
10	18	16	14	48	25	25	32	59	59	16	6.3	5.6
11	17	15	14	30	42	24	31	60	59	15	6.0	5.7
12	17	14	14	49	29 E	26	30	63	58	15	6.0	5.9
13	15	14	14	30	17 E	28	29	69	58	14	6.3	6.2
14	14	19	14	23	17 E	27	28	70	57	14	6.2	6.4
15	14	16	14	21	17	26	32	67	57	13	6.2	6.7
16	14	16	14	20	63	26	50	62	57	12	6.0	6.7
17	14	16	14	19	47	28	52	59	59	12	6.0	6.7
18	16	15	14	18	31	29	54	57	58	11	5.7	18
19	18	17	15	17	27	27	54	57	58	11	5.9	9.7
20	18	17	14	15 E	24	26	61	55	55	10	6.7	7.9
21	18	16	15	15 E	23	28	69	57	55	9.7	6.9	7.3
22	18	16	15	16	21	28	65	63	54	11	6.7	6.8
23	18	16	15	16	20	27	62	66	55	10	6.4	6.8 E
24	17	16	14	20	20	25	57	55	51	9.7	7.2	6.8
25	17	15	15	22	20	24	64	52	50	8.6	7.7	6.6
26	17	15	16	2	19	26	59	50	46	8.2	6.9	6.6
27	17	15	20	19	20	25	51	53	41	7.8	6.6	6.9
28	17	14	16	18	20	26	64	53	41	7.8	6.3	6.9
29	17	14	15	⊥		25	64	58	37	7.4	6.3	6.9
30	16	14	15	15 E		27	68	61	33	6.7	6.3	6.9
31	17		15	⊥		27		60		6.7	6.0	
Mean	16.5	15.9	14.6	21.3	23.0	25.7	46.2	58.7	54.9	14.4	6.4	6.8
Ac-Ft.	1014	948	900	1307	1275	1583	2751	3610	3269	888	392	407

E — Estimated NR — No Record

Total Discharge in Acre-Feet 18340

TABLE 82

DAILY MEAN DISCHARGE
MILLER CREEK NEAR SATTLEY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.2	7.2	5.8	5.5	6.2	6.5	8.3	11	9.5	5.1	3.5	3.3
2	7.2	7.2	5.8	5.5	5.9 E	6.5	9.8	11	9.2	5.1	3.5	2.8
3	7.2	7.2	6.1	13	6.1 E	6.6	10	9.8	9.2	4.8	3.5	2.8
4	7.2	7.2	6.1	25	5.9	6.3	12	9.8	8.9	4.8	3.5	2.8
5	7.2	7.2	5.8	5.1 E	5.9	6.3	12	9.5	8.9	4.6	3.5	2.7
6	7.2	6.9	5.8	5.5 E	5.9	6.6	12	9.5	8.8	4.6	3.5	2.9
7	7.2	6.9	5.8	5.5	5.9	6.6	11	10	8.5	4.4	3.5	3.3
8	7.2	6.9	5.8	5.5	5.9	6.6	10	10	8.5	4.4	3.7	3.3
9	6.9	6.9	5.8	20	8.6	6.6	10	11	8.2	4.4	3.5	3.3
10	6.9	8.6	5.8	19	12	6.6	11	12	8.2	4.5	3.5	2.7
11	6.9	7.5	5.8	13	38	6.6	11	12	7.9	4.5	3.5	2.2
12	6.9	7.5	5.8	19	25	6.8	11	13	7.6	4.3	3.4	2.1
13	6.9	7.2	5.8	12	17	7.4	11	14	7.6	4.3	3.2	2.1
14	6.6	9.6	5.8	10	6.3	7.1	11	13	7.3	4.3	3.2	2.1
15	6.6	7.2	5.8	8.8	5.6	6.8	11	12	7.0	4.1	3.2	2.2
16	6.6	8.3	5.8	8.5	17	6.8	10	11	7.0	4.1	3.2	2.2
17	6.6	14	5.8	8.2	12	7.1	10	11	6.7	4.0	3.2	2.2
18	8.9	8.0	5.8	7.9	8.3	7.4	9.8	11	6.7	4.0	3.0	11
19	8.3	9.6	5.6	7.6	7.4	7.1	9.5	10	6.4	4.0	3.2	5.5
20	7.8	7.5	5.6	7.0	7.2	7.1	9.5	9.7	6.4	3.8	3.6	4.3
21	7.5	6.9	5.8	7.3 E	6.7	7.4	10	10	6.2	3.8	3.6	4.0
22	7.5	6.6	5.8	7.0	6.2	7.1	10	13	5.9	3.9	3.4	3.8
23	7.5	6.6	5.8	6.7	6.2	7.1	10	14	5.9	3.9	3.2	3.8
24	7.5	6.6	5.6	7.3	6.3	6.8	11	12	5.9	3.9	4.9	3.5
25	7.2	6.6	5.8	7.9	6.0	6.8	12	11	5.9	3.9	4.9	3.5
26	7.2	6.6	5.8	7.0	6.1	7.4	12	11	5.9	3.9	4.4	3.5
27	7.5	6.6	5.8	7.0	6.1	7.1	10	11	5.9	3.8	3.8	3.4
28	7.2	6.1	5.8	6.7	6.4	7.1	11	10	5.9	3.8	3.8	3.4
29	7.2	6.1	5.6	6.4		6.8	11	9.8	5.6	3.8	3.6	3.4
30	7.2	5.8	5.8	6.4		7.1	12	9.4	5.3	3.6	3.6	3.4
31	7.2		5.6	7.2 E		7.1		9.5		3.4	3.3	
Mean	7.2	7.4	5.8	9.3	9.4	6.9	10.6	11.0	7.2	4.2	3.6	3.4
Ac-Ft	445	443	356	572	520	423	633	676	430	257	219	201

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5175

TABLE 83

DAILY MEAN DISCHARGE
MIDDLE FORK FEATHER RIVER NEAR PORTOLA

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	26	37	74	101	269	207	47	90	0.7		
2	1.1	26	35	63	62	292	207	66	68	0.7		
3	1.2	26	43	59	89	324	181	84	53	0.6		
4	2.8	27	43	54	74	350	173	68	47	0.5		
5	2.0	27	43	49	71	343	177	56	37	0.9		
6	1.7	28	46	42	83	343	154	51	31	4.0		
7	1.9	28	48	45	83	333	98	52	24	4.7		
8	2.4	28	48	52	76	316	70	54	20	2.6		
9	3.2	29	48	112	58	309	76	54	16	1.5		
10	3.6	30	47	267	43	300	92	53	12	1.0		
11	4.1	30	46	388	27	281	93	47	9.1	0.9		
12	3.6	29	46	717	27	275	89	40	8.4	0.7	N	N
13	3.4	30	45	521	25	291	83	35	7.5	0.5	O	O
14	3.8	33	44	383	22	272	77	30	6.4	0.4		
15	4.7	38	43	342	19	237	67	28	5.2	0.4		
16	6.5	37	41	298	50	232	55	26	3.7	0.4	F	F
17	9.0	35	40	219	149	260	49	25	3.0	0.3	L	L
18	12	33	40	163	209	258	44	23	2.7	0.3	O	O
19	16	33	41	128	298	227	37	21	2.7	0.3	W	W
20	25	36	46	102	583	214	34	20	2.4	0.2		
21	24	51	52	82	926	232	30	18	2.0	0.2		
22	22	59	55	74	798	279	27	25	1.5	0.2		
23	23	60	55	71	593	206	27	51	1.3	0.2		
24	24	58	57	86	436	191	27	55	1.3	0.2		
25	26	57	58	107	350	196	28	58	1.3	0.1		
26	27	55	59	130	304	247	77	60	0.9	0.1		
27	27	53	69	156	275	219	60	112	0.8	0.1		
28	28	49	78	197	261	202	38	158	0.9	0.1		
29	28	45	83	187		187	36	144	0.9	0.1		
30	26	43	85	151		187	40	136	0.8	0.1		
31	27		81	116		190		119		0		
Mean	12.6	38.0	51.7	175	218	260	81.8	58.6	15.4	0.7	0	0
Ac-Ft	776	2259	3178	10780	12080	15990	4865	3602	914	46	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 54490

TABLE 84

DAILY MEAN DISCHARGE
RED CLOVER CREEK NEAR GENESEE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	15	17	20	34	127	139	47	28	11	9.7	9.4
2	14	15	17	20 E	28	160	149	52	26	11	10	9.1
3	14	15	17	20 E	30	188	154	68	26	11	9.7	8.7
4	14	15	17	39 E	30	167	154	58	24	10	9.7	8.7
5	15	16	17	34	32	154	154	51	23	10	9.7	8.7
6	15	16	17	21	32	167	145	45	22	10	9.4	8.7
7	15	16	17	19	32	181	128	43	21	10	9.4	8.7
8	15	16	18	19	29	173	113	39	20	10	9.4	9.1
9	15	16	18	110	26	186	104	41	20	11	9.7	8.7
10	15	22	18	177	33	177	96	41	19	10	9.7	8.4
11	16	19	18	137	34	156	92	36	18	10	9.1	8.4
12	15	17	18	234	23	185	88	32	16	10	9.1	8.4
13	15	18	18	141	24 E	260	84	32	15	10	9.4	8.4
14	15	26	18	72	24 E	219	81	30	15	10	9.4	10
15	14	20	17	56	26	181	70	30	15	9.7	9.7	12
16	15	18	17	47	126	171	64	30	14	9.7	8.7	11
17	15	18 E	18	41	211	186	63	29	14	9.7	8.7	11
18	17	18 E	18	38	152	190	59	29	13	9.7	8.7	19
19	18	22	18	35	128	175	57	27	13	9.7	8.7	16
20	17	22	18	30	130	152	52	27	13	9.4	11	14
21	16	19	20	27	127	160	51	26	13	9.7	10	15
22	16	19	21	27	111	181	49	26	12	9.4	10	14
23	16	18	20	28	99	169	50	32	12	9.4	9.7	12
24	16	18	19	32	93	167	50	42	11	9.4	11	12
25	16	18	19	49	87	167	52	39	11	9.4	11	12
26	16	18	21	48	82	169	73	35	12	10	11	12
27	16	18	38	48	84	147	71	43	16	12	11	12
28	16	17	29	57	98	139	58	52	13	10	9.7	12
29	16	17	23	45		135	53	39	12	10	9.4	12
30	16	16	20	39		139	50	33	12	9.7	10	13
31	16		20	36		137		30		10	11	
Mean	15.5	17.9	19.4	56.3	70.2	170	86.8	38.2	16.6	10.0	9.8	11.1
Ac-Ft	950	1067	1192	3463	3898	10440	5163	2348	990	617	600	659

E — Estimated NR — No Record

Total Discharge in Acre-Feet 31390

TABLE 85

DAILY MEAN DISCHARGE
INDIAN CREEK NEAR TAYLORSVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47	58	62	78	125	374	454	258	123	46	22	22
2	47	58	62	69	109	472	513	262	117	46	21	22
3	47	56	62	54	99	569	550	266	109	44	21	22
4	47	56	63	63	109	519	588	250	104	41	21	21
5	46	56	63	83	109	483	615	226	99	38	22	21
6	46	56	63	82	109	501	601	214	94	36	22	21
7	46	56	65	76	106	544	537	207	89	38	22	22
8	46	54	67	80	99	513	466	192	85	36	23	22
9	46	56	67	292	82	537	421	203	82	36	21	23
10	46	87	67	525	124	525	400	203	80	36	21	23
11	46	80	67	495	134	466	400	192	78	36	21	22
12	46	72	67	812	87	483	405	189	74	36	21	19
13	46	65	67	698	80	642	389	199	67	35	21	21
14	47	94	63	384	94	635	374	182	65	34	21	27
15	46	94	63	275	92	531	344	189	63	32	21	32
16	46	78	63	222	417	489	301	172	63	34	21	31
17	47	67	63	192	741	519	279	162	60	32	21	31
18	49	78	67	168	635	544	262	159	58	32	21	51
19	63	87	65	149	544	519	254	146	56	32	21	56
20	65	99	65	131	477	472	242	143	54	31	22	42
21	62	89	74	114	427	472	242	140	52	30	25	38
22	63	80	80	123	374	531	246	140	51	30	23	38
23	62	76	78	114	311	531	254	162	49	30	25	35
24	63	74	74	125	284	495	258	172	49	28	26	34
25	63	72	74	162	271	483	292	168	49	28	26	32
26	63	67	78	175	271	483	354	155	51	26	25	32
27	62	65	134	162	275	460	334	182	54	26	25	31
28	60	63	112	189	301	427	292	182	54	26	23	31
29	58	62	89	162		427	275	162	51	26	21	31
30	58	60	82	146		427	266	146	47	25	22	31
31	58		80	125		443		131		25	22	
Mean	52.8	70.5	72.5	210	246	501	374	186	70.9	33.3	22.3	29.5
Ac-Ft	3247	4195	4455	12940	13660	30780	22230	11410	4219	2045	1369	1753

E — Estimated NR — No Record

Total Discharge in Acre-Feet 112300

TABLE 86

DAILY MEAN DISCHARGE
LIGHTS CREEK NEAR TAYLORSVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.0	7.2	8.8	9.7	18	60	99	47	17	5.3	1.6	1.6
2	6.0	7.2	8.8	6.8	14	74	114	46	16	4.7	1.5	1.6
3	6.0	7.6	8.8	4.7	14	83	121	43	16	4.7	1.5	1.5
4	6.0	7.6	8.4	7.2	15	73	126	40	16	4.3	1.3	1.5
5	6.0	8.4	8.4	9.7	14	68	130	37	16	4.3	1.1	1.6
6	6.0	8.4	8.4	10	12	69	119	35	15	4.3	1.1	1.6
7	6.0	7.6	8.4	11	12	71	100	33	14	4.3	1.0	1.6
8	6.0	7.6	8.4	12	9.7	69	85	33	14	4.0	1.0	1.5
9	6.0	8.4	8.8	65	6.0	69	78	35	13	3.8	1.0	1.5
10	6.0	20	8.4	68	11	64	74	33	13	3.5	1.0	1.5
11	6.0	17	8.4	76	13	60	76	31	12	3.5	0.8	1.5
12	6.0	9.7	8.4	166	22	66	77	30	11	3.2	1.0	1.5
13	6.0	9.3	8.0	88	20	83	74	31	11	2.9	1.0	1.5
14	6.0	16	7.2	52	19	81	72	32	10	2.7	1.0	2.2
15	6.0	12	8.0	37	20	71	67	31	10	2.7	1.0	4.7
16	6.0	8.8	8.0	30	100	68	60	29	9.7	2.5	1.1	3.8
17	6.0	8.0	8.0	26	111	73	56	26	8.8	2.5	1.0	3.2
18	8.8	11	8.0	23	76	76	52	25	8.4	2.5	1.0	11
19	9.7	13	8.0	20	62	73	49	23	8.0	2.5	1.1	10
20	9.7	13	7.6	16	53	68	47	23	7.6	2.2	1.6	6.0
21	8.4	12	10	16	44	72	47	22	7.2	2.0	2.2	4.3
22	8.0	11	9.7	16	39	84	47	23	6.8	2.0	2.0	3.8
23	8.0	11	9.3	14	36	78	47	26	6.4	2.2	1.8	3.2
24	8.0	11	8.8	17	34	68	48	27	6.0	2.2	2.0	3.2
25	8.0	10	10	23	32	64	54	22	6.0	2.0	2.7	2.9
26	7.6	9.3	11	23	34	74	62	23	6.8	1.8	2.2	2.9
27	7.6	9.3	28	24	37	69	54	26	7.6	1.6	1.8	2.9
28	7.2	8.8	15	35	45	69	48	22	6.8	1.6	1.8	2.7
29	7.2	8.8	11	26		73	47	20	6.4	1.6	1.8	2.7
30	7.2	8.4	11	23		84	47	19	5.7	1.6	1.8	2.9
31	7.2		11	18		84		18		1.6	1.6	
Mean	6.9	10.2	9.7	31.4	33.0	72.2	72.6	29.4	10.4	2.9	1.4	3.1
Ac-Ft	426	610	595	1930	1830	4439	4318	1807	619	180	88	183

E — Estimated NR — No Record

Total Discharge in Acre-Feet 17020

TABLE 87

DAILY MEAN DISCHARGE
WOLF CREEK AT GREENVILLE

In second feet

Date	1958			1959								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	[illegible].8	9.[illegible]	11	12	[illegible]	107	87	[illegible]	11	6.1	3.3	4.2
2	[illegible].8	10	12	11	35	125	97	26	9.8	5.7	3.3	3.9
3	8.8	10	11	8.3	32	133	95	25	10	5.3	3.3	3.6
4	8.8	9.8	11	9.3	22	122	90	23	9.3	5.3	3.3	3.6
5	8.8	9.8	11	14	19	110	91	22	9.3	5.3	3.3	3.6
6	8.8	9.8	11	19	17	106	87	21	9.8	4.9	3.3	3.9
7	8.8	9.8	11	22	17	104	71	19	9.3	4.9	3.3	3.9
8	9.8	9.8	11	35	17	100	56	19	10	4.6	3.3	3.6
9	8.3	11	11	101	17	94	50	18	11	4.2	3.0	3.6
10	8.3	21	11	60	27	87	46	16	11	4.2	3.0	3.6
11	8.8	14	11	72	38	80	45	15	11	4.6	3.0	3.6
12	8.8	12	10	228	33	77	44	20	11	4.6	3.0	3.6
13	9.8	12	10	101	26	81	41	14	10	4.6	3.0	3.6
14	8.3	14	10	57	25	79	38	14	10	4.9	3.0	3.9
15	8.8	14	10	47	26	72	34	14	11	4.9	2.7	5.7
16	8.8	12	11	43	578	69	30	14	9.8	4.6	2.4	4.9
17	8.8	12	11	37	382	67	29	13	9.8	4.6	2.1	5.3
18	14	12	11	30	260	67	29	12	9.8	4.6	2.1	20
19	13	14	11	26	205	69	29	13	8.8	4.2	2.1	12
20	11	13	11	23	149	67	27	12	8.8	4.2	2.7	9.3
21	11	13	18	[illegible]	117	67	27	12	8.3	4.2	3.3	7.8
22	11	12	15	[illegible]	94	72	26	12	7.4	4.2	3.3	7.4
23	11	12	13	40	83	84	25	15	7.4	3.9	3.0	6.9
24	11	12	12	[illegible]9	79	77	25	17	6.9	3.6	3.9	6.5
25	11	12	14	38	73	72	27	15	6.5	4.2	4.9	6.5
26	11	12	21	37	75	79	34	14	7.4	3.6	4.6	6.5
27	10	12	33	35	79	75	28	14	8.8	3.6	4.6	6.1
28	10	12	19	42	88	72	25	12	7.4	3.6	4.6	6.1
29	9.8	11	15	41		75	24	12	6.9	3.6	4.2	6.1
30	9.8	11	13	37		85	24	12	6.9	3.6	4.6	6.5
31	9.8		12	32		85		11		3.3	4.6	
Mean	9.7	12.0	13.0	42.1	93.6	85.8	46.0	16.2	9.1	4.4	3.4	5.9
Ac-Ft	598	712	797	2592	5201	5274	2739	996	544	273	206	349

E — Estimated NR — No Record

Total Discharge in Acre-Feet 20280

TABLE 88

DAILY MEAN DISCHARGE
SPANISH CREEK NEAR QUINCY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.
1	19	18	[illegible]	34	81	190	258	142	55	[illegible]	12	9.9
2	19	18	[illegible]	31	73	216	256	139	75	20	11	8.7
3	18	18	[illegible]	31 E	69	[illegible]	273	125	97	19	9.9	8.7
4	17	19	23	30 E	65	216	278	114	67	18	9.3	8.7
5	17	19	22	41	63	205	286	109	56	16	9.9	8.7
6	17	19	21	58	[illegible]	205	273	104	53	15	11	8.7
7	17	18	22	69	61	209	240	99	44	14	11	8.7
8	18	19	22	148	61	201	201	99	41	14	11	8.7
9	18	21	[illegible]	635	58	198	187	102	41	15	9.9	8.7
10	18	47	22	390	56	190	177	99	39	16	9.9	8.7
11	17	26	22	470	90	180	177	97	37	16	11	8.7
12	17	23	22	1450	71	177	173	94	35	16	11	8.7
13	18	23	21	452	67 E	198	170	99	33	16	11	8.7
14	18	53	21	230	60	198	167	97	31	14	11	9.9
15	17	34	21	163	61	180	157	90	31	13	9.3	13
16	17	28	21	142	1110	173	142	83	30	13	9.3	13
17	17	25	21	112	800	183	142	81	30	13	9.9	12
18	28	26	21	99	672	183	133	77	30	14	11	55
19	26	28	21	90	488	180	125	75	29	15	11	27
20	23	28	29	79	333	170	119	71	28	15	12	20
21	21	26	36	73	260	177	117	65	27	14	12	18
22	20	26	31	67	209	201	117	69	27	14	12	16
23	20	26	27	65	177	228	119	71	26	12	11	16
24	20	25	26	75	163	198	122	67	23	12	11	16
25	20	24	41	109	157	180	145	65	24	12	11	15
26	20	24	56	109	151	205	187	67	24	11	11	16
27	21	24	125	106	154	194	148	77	24	12	11	15
28	19	23	63	145	167	183	135	65	24	11	9.9	15
29	17	22	48	117		190	125	61	23	11	9.9	15
30	18	22	41	102		[illegible]	125	60	22	11	9.9	15
31	18		37	88		[illegible]		56		11	9.3	
Mean	19.0	[illegible]	31.4	187	[illegible]	196	175	87.7	37.5	14.3	10.6	14.0
Ac-Ft	1170	1492	1930	11510	[illegible]	[illegible]	1040	5393	2233	879	653	835

E — Estimated NR — No Record

Total Discharge in Acre-Feet 60160

TABLE 89

DAILY MEAN DISCHARGE
FEATHER RIVER NEAR GRIDLEY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1060	1770	2420	2800	3710	5450	6190	2470	524	297	84	136
2	1110	1770	2390	2750	3610	5750	6360	2610	452	543	98	145
3	1590	1730	2360	2700	3530	6440	6600	2470	391	581	96	176
4	1620	1720	2300	2660	3480	6710	6910	2300	297	627	94	143
5	1590	1770	2300	2790	3350	5600	7080	2140	320	634	92	107
6	961	1850	2320	3970	3350	6460	7230	2030	324	627	94	115
7	1290	1910	2320	3570	3350	6600	7170	1980	277	634	82	131
8	1300	2060	2330	3690	3350	6490	6490	1920	240	562	84	240
9	1310	2330	2480	8450	3350	6440	4650	1910	186	417	96	262
10	1310	2530	2350	11000	3650	6440	4300	1900	148	398	100	208
11	1310	2800	2330	8840	4260	6220	4370	1850	153	524	94	136
12	1310	2750	2330	15800	3830	6190	4220	1870	145	530	98	127
13	1400	2560	2270	18700	3670	6250	3950	1860	122	537	102	113
14	1530	3020	2330	10100	3530	6220	3610	1940	100	512	100	118
15	1530	2970	2420	7310	3530	6060	3220	1940	90	351	115	98
16	1430	2720	2420	5040	11300	5930	2850	1780	90	330	129	163
17	1330	2530	2440	4470	25400	5680	2610	1670	145	307	129	231
18	1370	2500	2380	4070	21500	5680	2360	1570	231	307	124	565
19	1400	2500	2450	3850	17300	5680	2320	1170	229	303	109	2130
20	1470	2510	1690	3650	12600	5300	2240	1110	223	300	94	1300
21	1430	2580	1390	3530	11300	5350	2160	1010	200	337	86	970
22	1440	2560	2030	3420	9770	5650	2130	952	178	337	94	918
23	1400	2560	2470	3350	8190	5880	2070	1050	165	259	94	926
24	1190	2550	2500	3330	7380	6190	2100	1150	133	217	107	918
25	1190	2550	2610	3650	6660	5430	2200	1110	102	303	127	901
26	1390	2390	2740	4370	5730	5650	3330	1010	115	306	111	827
27	1390	2360	3510	3970	5330	5780	3670	1120	122	287	90	811
28	1400	2450	3350	4580	5430	5680	2640	1200	118	143	68	892
29	1460	2290	2870	4390		5480	2450	1050	115	102	71	1040
30	1650	2410	2160	4070		5830	2390	734	133	90	107	1020
31	1520		2770	3890		6460		600		79	124	
Mean	1377	2369	2420	5444	7194	5967	3996	1596	202	380	99.8	529
Ac-Ft	84760	140900	148800	334700	399600	366900	237800	98140	12040	23370	6135	31470

E — Estimated NR — No Record

Total Discharge in Acre-Feet 188500

TABLE 90

DAILY MEAN DISCHARGE
FEATHER RIVER AT YUBA CITY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1640	2030	2630	2690	3760	5900	6800	3010	1030	335	275	380
2	1480	2140	2620	2670	3620	6040	6750	3200	928	532	293	453
3	1660	2140	2620	2650	3530	6480	6940	3090	852	676	328	490
4	1890	2090	2580	2630	3440	7040	7110	2920	795	746	316	517
5	1900	2100	2550	2730	3370	6350	7280	2700	671	795	297	453
6	1720	2170	2540	3190	3300	6440	7330	2550	719	795	312	414
7	1540	2300	2530	3660	3280	7080	7290	2470	713	708	331	405
8	1680	2330	2520	3370	3260	6910	6870	2410	671	735	308	418
9	1750	2570	2550	4970	3260	6870	5640	2380	630	615	278	522
10	1760	2630	2550	10300	3400	6840	4970	2420	541	551	286	610
11	1780	2840	2470	8170	5190	6690	4870	2410	490	551	282	580
12	1770	2990	2470	9210	4670	6560	4890	2370	427	671	275	522
13	1800	2820	2450	21400	4160	6540	4590	2470	388	703	282	536
14	1920	2850	2410	14100	3710	6650	4350	2550	401	703	282	527
15	1950	3150	2470	7860	3600	6510	3980	2490	401	610	271	536
16	1970	2970	2490	5700	7500	6330	3680	2360	364	503	286	536
17	1820	2860	2470	4980	27700	6140	3260	2230	339	494	324	600
18	1790	2720	2470	4540	33600	6170	3030	2130	405	485	331	888
19	1850	2780	2430	4250	29900	6100	2900	1840	449	508	320	2060
20	1880	2830	2380	4000	19000	6040	2830	1540	440	527	308	2030
21	1920	2790	1720	3820	14100	5930	2720	1460	449	485	308	1500
22	1870	2800	2610	3660	11600	6040	2630	1340	449	508	320	1300
23	1950	2770	2440	3520	9070	6410	2580	1370	384	513	351	1240
24	1660	2780	2500	3510	7550	6780	2590	1520	351	422	364	1270
25	1630	2770	2520	3680	6890	6190	2650	1560	335	401	368	1260
26	1640	2720	2660	4600	6230	5940	3260	1500	308	480	380	1220
27	1770	2630	2910	4410	5800	6470	4600	1450	331	485	355	1160
28	1800	2690	3380	4420	5860	6080	3550	1590	347	427	355	1170
29	1810	2600	2980	4650		6110	3130	1520	343	328	339	1220
30	2030	2600	2530	4250		6000	3000	1260	320	304	335	1300
31	1980		2580	3990		7140		1100		293	380	
Mean	1794	2615	2549	5406	8584	6412	4536	2104	509	545	317	871
Acr-Ft	110300	155600	156800	332400	476700	394300	269900	129300	30290	33500	19520	51800

E — Estimated NR — No Record

Total Discharge in Acre-Feet 2160000

TABLE 91

DAILY MEAN DISCHARGE
DEER CREEK NEAR NEVADA CITY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	4.2	2.8	1.4	4.2	10	103	5.0	6.3	11	17 E	26 E
2	12	4.2	3.5	1.2	4.2	9.4	62	5.0	6.3	11	17 E	26 E
3	12	4.2	3.5	1.2	5.0	8.9	8.3	5.0	10	12	17 E	28 E
4	12	2.8	3.5	1.2	5.0	8.9	6.3	4.6	12	11	19 E	29 E
5	12	2.8	3.1	8.0	4.6	8.9	5.8	4.2	9.4	11	19 E	29 E
6	12	2.5	3.1	18	4.6	12	5.0	4.2	9.4	11	19 E	30 E
7	12	2.5	2.8	3.8	4.2	96	4.6	4.2	9.4	11	19 E	31 E
8	12	2.5	2.8	4.6	4.2	132	5.0	4.6	8.9	11	19 E	31 E
9	13	2.8	3.5	60	5.0	138	5.0	4.6	11	11	19 E	32 E
10	14	5.8	3.5	30	15	140	5.0	4.6	14	11	20 E	32 E
11	14	3.5	2.8	7.8	10	136	4.6	5.0	14	11	20 E	32 E
12	14	3.5	2.8	27	9.4	138	4.6	5.0	14	11	20 E	33 E
13	14	3.8	2.5	11	6.8	138	4.2	4.2	14	12	20 E	34 E
14	13	5.4	2.5	5.8	6.3	136	4.2	4.6	14	12	21 E	34 E
15	14	2.8	2.8	4.2	13	134	4.2	4.2	14	11	21 E	34 E
16	13	2.2	2.5	4.2	72	130	4.2	4.2	13	11	21 E	34 E
17	12	2.2	2.5	4.2	39	130	4.6	4.2	13	11	21 E	35
18	35	2.5	2.5	4.6	78	130	4.6	3.8	13	11	21 E	53
19	32	2.8	2.5	4.6	66	128	4.6	5.4	13	11	21 E	8.3
20	10	2.2	2.2	4.2	40	126	4.6	7.8	13	12	21 E	2.8
21	3.5	2.2	2.8	4.2	30	124	4.6	7.3	12	12	22 E	1.9
22	2.8	2.2	2.5	4.2	24	128	5.0	8.3	12	12	22 E	1.7
23	3.5	2.5	2.2	3.8	20	142	5.0	8.9	12	12	22 E	1.9E
24	6.8	2.5	2.5	5.0	16	146	5.0	8.3	12	1[illegible]	25	1.9E
25	[illegible]	2.5	3.1	8.3	14	136	6.8	8.3	12	1[illegible]	24	2.2E
26	7.3	2.8	3.7	6.3	13	140	7.8	7.8	12	[illegible]	24	2.5E
27	7.6	2.8	7.3	6.3	12	134	5.8	7.3	12	1[illegible]	25	3.1E
28	5.8	2.8	3.5	6.3	11	134	5.8	7.3	12	14	24 E	3.5E
29	4.6	3.1	2.5	7.8		13[illegible]	5.4	6.8	12	1[illegible]	24 E	4.2E
30	4.6	3.8	1.9	8.3		166	4.6	6.8	12	17	25 E	4.6E
31	4.6		1.7	5.[illegible]		140		6.3		17	25 E	
Mean	11.4	3.[illegible]	[illegible]	8.8	19.[illegible]	11[illegible]	10.3	5.7	11.7	12.[illegible]	21.1	20.7
Acr-Ft	[illegible]99	191	181	[illegible]41	1064	6766	615	353	698	740	1297	1233

E — Estimated NR — No Record

Total Discharge in Acre-Feet 14370

TABLE 92

DAILY MEAN DISCHARGE
FEATHER RIVER BELOW SHANGHAI BENI

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept
1	1870	1900	E 3030	3380	6390	8910	10100	5800	1480	394	320	389
2	1760	2080	3020	3370	6140	9110	9840	6000	1360	512	325	460
3	1750	2070	3020	3380	5940	9710	9980	5500	1260	673	359	486
4	2020	2020	2980	3340	5800	10400	10200	5000	1220	734	344	523
5	2040	1990	2970	3530	5600	9460	10500	4500	1090	801	335	491
6	1950	2030	2960	4110	5500	9280	10800	4000	1070	807	339	471
7	1740	2200	2960	3630	5400	10100	10800	3680	1060	729	354	465
8	1770	2250	2960	4610	5400	9820	10300	3610	1020	756	330	481
9	1850	2490	2990	6480	5400	9710	8550	3600	945	679	305	581
10	1860	2600	2990	15000	5600	9490	7380	3710	841	608	310	668
11	1870	2810	2920	12700	11000	9230	7050	3750	779	587	31	651
12	1860	3010	2890	1.800	7300	9020	7190	3690	706	684	301	608
13	1880	2910	2870	30400	6500	9020	6790	4000	651	740	305	619
14	1970	2860	2790	24200	6000	9210	6420	4200	646	734	305	613
15	2010	3320	2890	15100	5600	9070	5940	4040	635	684	291	592
16	2020	3300	2890	10700	11000	8910	5450	3760	560	554	305	597
17	1910	3210	2830	8790	43000	8530	4900	3500	502	539	349	646
18	1860	3060	2820	7890	43400	8620	4500	3300	481	539	359	939
19	1920	3140	2770	7340	41500	8570	4200	2840	486	560	344	1900
20	1930	3200	2770	6930	29400	8330	4080	2370	465	587	335	2240
21	1960	3160	2130	6640	22300	8020	3980	2200	450	539	330	1560
22	1840	3200	2020	6390	18400	8110	3860	2030	471	539	335	1350
23	1820	3170	2780	6150	14700	8660	3780	2030	450	560	364	1370
24	1780	3170	2930	5960	12200	9440	3750	2330	440	481	374	1470
25	1740	3170	2910	5860	10900	8890	3820	2390	455	455	384	1460
26	1740	3140	3070	7170	9780	8350	4680	2270	460	507	394	1460
27	1740	3010	3460	7570	898[illegible]	9090	7080	2160	435	528	369	1410
28	1730	3060	4150	7120	88[illegible]	8660	6670	2320	404	465	364	1410
29	1720	3020	3670	7700		8640	6150	2210	394	374	359	1460
30	1830	2970	3290	7130		8310	5830	1850	414	340	354	1510
31	2000		3150	6690		9940		1570		335	399	
Mean	1863	2784	296[illegible]	8454	13140	9052	6819	3362	721	582	340	463
Ac-Ft	114500	165700	182100	519800	730000	556600	405800	206700	42900	35770	20930	27280

E — Estimated NR — No Record

Total Discharge in Acre-Feet 3038000

TABLE 93

DAILY MEAN DISCHARGE
BEAR RIVER NEAR COLFAX

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	54	7.6	18	NR	116	245	NR	[illegible]1	42	85	93	53
2	54	10	17	NR	96	270	NR	20	80	95	92	55
3	52	9.9	18	NR	78	252	NR	19	74	107	92	54
4	49	12	16	NR	104	245	NR	17	71	119	92	53
5	49	24	19	NR	71	213	NR	21	75	125	92	53
6	49	27	21	28	71	197	NR	20	78	123	85	53
7	52	12	23	9.5	76	194	NR	25	78	122	76	52
8	50	9.9	35	8.0	71	281	NR	25	78	120	77	52
9	52	19	46	610	70	484	NR	25	79	120	77	52
10	52	67	44	363	185	483	NR	36	72	113	77	52
11	54	42	44	122	209	493	NR	101	69	110	74	52
12	54	52	29	521	154	490	NR	107	74	113	69	52
13	50	50	20	353	128	484	NR	122	74	84	68	52
14	52	78	NR	165	124	460	NR	NR	75	68	68	52
15	54	40	NR	120	183	388	NR	NR	46	68	68	52
16	54	21	NR	106	1680	470	NR	NR	23	68	68	53
17	54	21	NR	79	960	450	NR	NR	20	68	67	52
18	66	43	NR	74	1380	469	NR	NR	31	68	67	53
19	52	32	2.4 E	71	1080	467	NR	NR	48	66	75	49
20	49	25	NR	70	675	462	NR	NR	42	67	76	46
21	29	19	NR	70	472	458	NR	NR	43	73	67	45
22	20	16	NR	65	401	465	NR	NR	43	102	64	45
23	34	16	NR	64	344	496	NR	NR	43	89	64	41
24	30	22	NR	99	303	481	NR	NR	54	85	59	37
25	26	22	NR	258	272	474	NR	NR	67	88	54	36
26	20	20	NR	189	264	514	44	NR	65	94	55	36
27	19	19	NR	176	253	488	16	11	64	91	54	35
28	19	18	NR	173	240	446	23	5.2	64	90	54	34
29	18	18	NR	145		353	27	5.8	64	92	53	35
30	16	18	NR	133		270	20	6.5	63	87	53	37
31	15		NR	126		73 E		6.9		85	52	
Mean	41.9	26.3			360	388			60.0	93.1	70.4	47.4
Ac-Ft	257[illegible]	1568			19970	23830			3560	57[illegible]	4328	2822

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 94

DAILY MEAN DISCHARGE
WOLF CREEK NEAR WOLF

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	18	26	15	65	88	77	21	7.[illegible]	4.8	1.1	[illegible]
2	13	19	27	13	54	82	66	22	9.5	4.5	1.5	1.7
3	13	21	25	12	48	76	58	18	8.7	3.1	1.7	1.7
4	13	23	23	12	47	67	52	16	7.[illegible]	2.9	1.[illegible]	1.8
5	14	22	23	54	44	63	49	14	7.9	2.9	1.8	1.8
6	14	21	23	226	43	60	47	13	7.2	3.8	1.7	[illegible]
7	16	19	22	76	41	57	43	12	6.9	2.5	2.7	2.[illegible]
8	16	17	24	54	41	53	38	10	6.9	3.1	1.5	2.[illegible]
9	15	14	24	681	46	56	34	7.6	6.6	2.7	2.0	3.1
10	14	38	22	489	632	53	32	8.3 E	6.9	2.5	2.7	2.5
11	15	24	21	164	793	49	29	8.7 E	5.9	2.3	2.0	3.3
12	14	23	17	462	527	48	17	9.1 E	5.1	2.0	1.1	2.0
13	14	22	14	215	292	47	16	9.5 E	5.1	2.7	2.0	1.7
14	12	37	15	108	227	45	14	11 E	5.3	8.4	2.7	4.[illegible]
15	14	46	15	78	253	42	13	12	7.9	3.3	2.0	6.3
16	14	36	14	62	1180	42	12	13	6.6	3.1	1.7	6.6
17	13	30	13	54	778	43	12	13	6.3	3.1	2.0	6.9
18	20	27	12	47	994	41	13	14	6.3	2.7	1.7	164
19	19	28	12	44	592	39	15	13	5.9	2.0	2.9	122
20	17	27	12	37	361	35	15	12	5.3	2.0	3.3	50
21	16	28	18	35	300	36	13	11	4.8	2.1	4.5	19
22	15	29	19	33	217	37	12	10	5.3	1.5	3.3	16
23	15	29	16	32	217	74	15	22	3.8	1.5	2.5	14
24	15	28	16	89	170	84	14	23	3.3	2.3	1.8	15
25	15	29	24	386	145	53	21	19	3.3	2.7	2.3	13
26	15	28	21	237	129	88	88	19	4.5	1.5	2.0	12
27	20	26	109	173	116	57	47	17	5.3	1.8	2.0	11
28	21	26	40	187	100	48	29	13	5.3	1.5	2.9	9.5
29	18	26	25	116		46	31	12	5.1	2.3	3.5	9.1
30	16	26	20	90		162	66	10	4.[illegible]	1.5	2.7	10
31	21		17	73		110		8.7		1.4	2.3	
Mean	15.5	26.2	22.9	140	302	60.7	32.9	13.5	5.0	2.7	2.2	17.2
Ac-Ft	950	1561	1406	8636	16770	3731	1960	837	359	168	138	1026

E — Estimated NR — No Record

Total Discharge in Acre-Feet 37540

TABLE 95

DAILY MEAN DISCHARGE
COON CREEK AT HIGHWAY 99E

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec	Jan	Feb.	Mar.	Apr.	May	June	July	Aug	Sept
1	19	24	21	14	48	71	44	[illegible]	[illegible]	[illegible]	[illegible]	3.8
2	19	18	21	14	43	66	36	[illegible]	4.6	[illegible]	0.2	2.9
3	18	20	22	13	39	65	32	[illegible]	[illegible]	[illegible]	[illegible]	2.[illegible]
4	16	25	22	12	36	58	27	16	[illegible]	[illegible]	[illegible]	1.4
5	17	25	23	21	34	54	25	14	1.[illegible]	0.1	0.5	2.6
6	21	24	22	160	33	53	22	11	2.3	1.2	0.5	1.2
7	23	23	21	61	32	51	20	9.2	2.5	0.1	1.5	2.6
8	29	21	21	33	31	46	18	5.7	5.3	1.3	0	2.6
9	21	22	20	325	32	45	14	5.7	2.3	0.8	0	5.3
10	24	32	18	286	382	43	12	8.2	1.8	2.1	0	4.9
11	28	36	18	134	737	39	9.7	10	2.1	0.6	0.3	4.5
12	28	37	18	346	670	37	6.1	10	3.2	0.4	1.1	5.3
13	31	33	17	202	192	39	6.1	13	3.5	0.2	0.8	3.5
14	33	28	15	92	120	35	4.9	14	2.3	0	0.1	5.3
15	32	24	16	67	95	32	7.8	9.7	2.9	0	1.1	6.5
16	32	24	15	55	563	31	4.9	9.2	3.5	0	0.2	7.8
17	34	23	14	49	478	29	7.8	11	1.2	0	0.2	8.7
18	47	24	14	44	754	27	15	11	0.3	0	0.0	111
19	52	24	15	41	389	28	15	8.7	0	0	0.5	1.5
20	50	25	15	38	238	28	16	6.5	0.1	0	2.1	50
21	49	24	15	33	404	26	20	5.7	0	0	[illegible]	[illegible]
22	48	24	17	32	210	24	19	4.9	0	0.1	3.[illegible]	5[illegible]
23	46	21	16	30	164	30	22	8.2	0	0	3.5	4[illegible]
24	49	23	18	44	128	28	21	14	0	0	2.6	4[illegible]
25	47	23	18	241 E	106	28	22	14	0	0	1.6	4[illegible]
26	44	22	19	125	93	35	81	11	0	0	1.6	40
27	42	21	54	76	84	31	58	9.2	0.8	0	1.8	35
28	45	20	30	117	76	27	39	7.3	0.7	0	3.2	36
29	29	20	21	73		28	28	4.2	0.3	0	6.5	32
30	25	20	17	60		60	23	4.2	0.1	0	5.7	37
31	28		15	52		60		1.6		0	6.1	
Mean	33.1	24.3	19.6	93.2	218	40.5	22.5	10.4	1.7	0.2	1.8	[illegible]
Ac-Ft	2035	1448	1206	5732	12120	2491	1341	641	101	14	101	1[illegible]

E — Estimated NR — No Record

Total Discharge in Acre-Feet [illegible]

TABLE 96

DAILY MEAN DISCHARGE
AUBURN RAVINE AT LINCOLN

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.
1	9.4	6.3	[illegible]	25	50	63	28	[illegible]	24	44	9	47
2	11	5.5	[illegible]	26	47	60	34	[illegible]	19	[illegible]	40	47
3	12	5.8	24	26	41	57	33	62	16	40	40	[illegible]
4	7.8	5.3	25	26	31	52	29	56	17	40	40	[illegible]
5	9.1	4.3	31	56	30	49	27	49	18	42	[illegible]	43
6	12	3.4	34	126	33	50	31	54	17	42	40	[illegible]
7	15	1.[illegible]	[illegible]	4	33	41	28	48	16	41	40	48
8	12	6.9	31	31	33	39	27	41	14	42	39	44
9	11	6.3	35	222	34	33	24	37	13	42	40	33
10	8.5	25	27	132	135	27	35	38	14	40	40	34
11	8.5	23	24	72	321	24	27	36	15	40	39	30
12	7.5	23	25	162 E	329	23	17	33	14	41	40	25
13	8.[illegible]	16	25	106 E	124	21	6.3	30	13	42	41	26
14	9.8	15	24	62	88	20	3.8	31	13	42	41	25
15	10	21	26	51	82	20	2.6	31	13	42	42	22
16	9.1	20	27	47	265	18	1.8	29	13	42	43	18
17	6.0	25	18	40	222	18	1.7	30	14	42	42	18
18	19	25	19	38	295	15	19	30	13	42	43	134
19	30	16	16 E	37	182	14	21	26	12	42	44	116
20	27	12	18 E	39	140	13	25	25	12	42	45	79
21	24	11	17 E	38	182	13	50	25	11	42	46	67
22	27	10	19 E	42	115	11	44	26	9.4	42	45	51
23	27	14	17 E	41	98	14	46	37	8.1	40	46	44
24	33	15	16	67	94	17	48	38	7.2	40	46	39
25	30	17	19	102	79	13	64	34	6.6	40	44	26
26	50	30	19	73	63	22	129	34	9.1	40	42	17
27	34	30	71	65	73	19	93	34	8.8	39	44	15
28	19	[illegible]	36	81	62	1[illegible]	79	31	8.8	39	46	15
29	12		33	64		16	73	27	8.1	40	48	14
30	12	[illegible]	27	55		45	59	26	12	40	48	13
31	12		25	50		29		26		39	48	
Mean	15.8	19.9	[illegible]	6[illegible]	118	[illegible]	30.[illegible]	37.1	13.6	40.4	42.6	41.4
Ac-Ft	974	94[illegible]		[illegible]	9543	17[illegible]	198	279	772	2485	2618	2465

E — Estimated NR — No Record Total Discharge in Acre-Feet 28710

TABLE 97

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1001 DRAINAGE TO NATOMAS CROSS CANAL

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	0	31	0					
2				0	0	0	33					
3				0	0	60	0					
4				0	0	0	0					
5				22	0	0	0					
6				0	0	36	0					
7				0	0	0	30					
8				26	33	0	0					
9				0	0	37	0					
10				0	45	0	0					
11				30	0	0	0					
12	N	N	N	26	0	30	30	N	N	N	N	N
13	O	O	O	0	37	0	0	O	O	O	O	O
14				34	0	0	0					
15				0	0	0	0					
16	P	P	P	22	71	33	0	P	P	P	P	P
17	U	U	U	0	89	0	0	U	U	U	U	U
18	M	M	M	0	185	0	0	M	M	M	M	M
19	P	P	P	0	167	0	0	P	P	P	P	P
20	I	I	1	0	112	30	0	I	I	I	I	I
	N	N	N					N	N	N	N	N
21	G	G	G	0	110	0	0	G	G	G	G	G
22				33	98	0	0					
23				0	55	0	0					
24				0	45	33	0					
25				0	19	0	0					
26				33	34	0	0					
27				0	39	0	0					
28				0	0	0	0					
29				0		33	0					
30				35		0	0					
31				0		0						
Mean	0	0	0	8.4	40.7	10.4	3.1	0	0	0	0	0
Ac-Ft	0	0	0	518	2259	641	184	0	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 3602

TABLE 98

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1000 DRAINAGE TO SACRAMENTO RIVER (PRITCHARD LAKE)

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15						NO PUMPING						
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean	0	0	0	0	0	0	0	0	0	0	0	0
Ac-Ft	0	0	0	0	0	0	0	0	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 99

DAILY MEAN DISCHARGE
SACRAMENTO WEIR SPILL TO YOLO BYPASS

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0							
2					0							
3					0							
4					0							
5					0							
6					0							
7					0							
8					0							
9					0							
10					0							
11					0							
12	N	N	N	N	0	N	N	N	N	N	N	N
13	O	O	O	O	0	E	O	O	O	O	O	O
14					0							
15					0							
16	F	F	F	F	0	F	F	F	F	F	F	F
17	L	L	L	L	0	L	L	L	L	L	L	L
18	O	O	O	O	1.0	O	O	O	O	O	O	O
19	W	W	W	W	184	W	W	W	W	W	W	W
20					263							
21					214							
22					148							
23					80							
24					33							
25					0							
26					0							
27					0							
28					0							
29												
30												
31												
Mean	0	0	0	0	33	0	0	0	0	0	0	0
Ac-Ft.	0	0	0	0	1831	0	0	0	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 1831

TABLE 100

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1000 DRAINAGE TO SACRAMENTO RIVER (SECOND BANNON SLOUGH)

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	0	65	0	0		0	0	0
2				0	0	69	35	0		0	0	0
3				0	0	66	0	0		0	0	0
4				0	0	64	28	0		0	32	0
5				53	0	65	0	0		0	0	56
6				63	0	0	0	0		0	0	54
7				37	57	68	42	0		0	60	61
8				1.6	0	0	0	0		0	59	73
9				63	139	0	0	0		0	0	80
10				59	34	0	0	0		0	0	59
11				46	112	0	0	0		0	0	59
12	N	N	N	29	61	0	0	0	N	0	0	132
13	O	O	O	60	64	132	0	0	O	0	0	166
14				63	46	105	0	0		0	0	164
15				60	42	0	0	42		0	0	164
16	F	F	F	0	134	0	0	0	F	0	0	163
17	L	L	L	64	156	0	0	0	L	0	0	161
18	O	O	O	0	281	0	0	0	O	0	0	176
19	W	W	W	65	191	0	0	45	W	0	0	260
20				0	149	0	0	0		0	0	165
21				0	251	0	0	47		0	0	166
22				37	157	0	0	0		0	0	165
23				0	156	69	0	28		0	0	0
24				52	55	69	0	30		0	33	0
25				0	72	0	0	0		39	0	0
26				69	102	0	0	0		0	0	0
27				0	98	0	0	0		47	60	0
28				59	85	0	0	0		0	0	0
29				0		0	0	0		0	0	0
30				0		35	0	30		0	0	0
31				0		0		0		0	0	
Mean	0	0	0	28.4	87.2	26.0	3.5	7.2	0	2.8	7.9	77.5
Ac-Ft	0	0	0	1747	4844	1601	208	440	0	171	484	4610

E — Estimated NR — No Record

Total Discharge in Acre-Feet 14100

TABLE 101

DAILY MEAN DISCHARGE
LINDA CREEK NEAR ROSEVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	45	37	38	56	99 E	46	52	15	4.9	12	17
2	27	44	38	38	55	90 E	45	53	13	3.8	12	13
3	27	41	41	35	53	83	43	56	12	3.2	9.5	13
4	27	41	42	32	55	76 E	40	54	12	4.9	9.5	15
5	27	42	40	57	57	74 E	36	49	12	8.1	10	16
6	29	41	38	109	63	71 E	34	45	11	9.5	8.8	16
7	35	44	39	54	60	68 E	30	40	11	8.8	7.5	18
8	38	42	38	44	60	65 E	25	39	8.8	8.1	8.8	15
9	37	44	38	236	63	62 E	23	38	9.5	4.9	8.1	16
10	34	52	37	172	183	59 E	22	36	9.5	3.8	8.1	15
11	32	50	38	73	419	56 E	22	32	10	3.2	6.8	13
12	34	48	38	263	485	53 E	22	26	11	4.3	8.1	12
13	35	45	36	173	190	50 E	23	23	15	5.6	7.5	11
14	35	48	35	56	131	48 E	23	26	14	6.8	7.5	15
15	38	49	35	38	120	46 E	23	26	14	7.5	8.1	20
16	37	51	37	31	478	43 E	21	26	15	7.5	8.8	24
17	37	43	42	29	416	40 E	18	25	15	6.2	10	28
18	42	46	38	32	582	38 E	21	26	12	6.8	11	92
19	48	47	38	32	357	36 E	23	23	11	8.1	12	114
20	46	46	38	30	246	34	22	20	9.5	8.1	14	81
21	46	45	43	33	487	38	21	17	8.8	9.5	17	72
22	47	44	46	38	269	39	25	18	6.8	9.5	17	66
23	45	44	44	41	186	45	22	21	6.8	9.5	16	60
24	47	43	39	70	151	51	21	26	5.6	11	17	56
25	50	43	40	155	131	48	89	27	4.9	13	12	51
26	49	43	45	85	125 E	55	243	24	5.6	11	10	50
27	48	43	68	63	116 E	49	86	23	7.5	11	13	48
28	44	42	49	71	107 E	41	72	23	8.1	11	15	47
29	43	38	45	56		46	67	19	8.1	11	17	44
30	42	37	44	52		64	58	15	8.8	13	19	45
31	44		41	53		60		13		11	19	
Mean	38.6	44.4	40.9	73.8	204	55.7	42.[illegible]	30.4	10.4	7.9	11.6	36.8
Ac-Ft	2372	2640	2513	4540	11310	3426	2511	1866	617	487	714	2188

E — Estimated NR — No Record

Total Discharge in Acre-Feet 35180

TABLE 102

DAILY MEAN FLOW
FOLSOM RESERVOIR

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	573	695	75[illegible]	485	1510	3580	4240	5130	2120	716	154	176
2	597	655	77[illegible]	493	1550	3840	5090	4560	2340	445	197	151
3	635	690	704	469	1520	4200	5230	3820	2110	539	196	122
4	550	683	797	323	1330	4080	5450	3350	2160	525	200	190
5	645	697	[illegible]	947	1400	3870	6100	3480	2170	494	186	185
6	451	693	[illegible]	1520	1360	3880	6280	3280	2170	398	163	184
7	460	576	[illegible]	1275	1350	3810	6160	3420	2140	387	232	168
8	499	667	[illegible]	11[illegible]	1380	3790	5060	3640	1810	427	206	184
9	498	71[illegible]	[illegible]	553[illegible]	1410	3340	4530	3930	1500	483	263	237
10	548	[illegible]	[illegible]	11[illegible]	2370	3030	4520	3980	1570	526	197	154
11	515	[illegible]	7[illegible]1	6080	4000	960	4740	4240	1500	452	195	182
12	530	[illegible]	[illegible]	6[illegible]0	3[illegible]	3020	5110	4640	1420	433	216	194
13	578	[illegible]	[illegible]	840[illegible]	[illegible]	[illegible]	5210	4760	1530	379	195	138
14	557	95[illegible]	[illegible]	3930	[illegible]	[illegible]	4740	4250	1450	387	174	142
15	474	[illegible]	[illegible]	271[illegible]	[illegible]	[illegible]	4320	3690	1370	323	122	139
16	567	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4160	3290	1200	330	196	175
17	557	816	5[illegible]	[illegible]	[illegible]	[illegible]	3980	2960	1110	392	179	164
18	[illegible]	705	[illegible]	[illegible]	[illegible]	5100	3790	2840	1060	291	140	939
19	568	780	[illegible]	1700	977	3200	3510	2470	1070	304	123	1110
20	559	[illegible]	[illegible]	[illegible]	[illegible]	3060	3560	2360	1000	257	152	1170
21	668	970	[illegible]	1400	5150	3020	3750	2300	1020	251	163	705
22	[illegible]	940	[illegible]	[illegible]	[illegible]	3070	3860	2350	959	304	246	520
23	[illegible]	[illegible]	[illegible]	[illegible]	3400	3150	3820	2710	977	272	156	514
24	[illegible]	7[illegible]	[illegible]	1[illegible]	3160	2980	3830	2810	798	304	269	461
25	555	[illegible]	[illegible]	[illegible]	[illegible]	2770	5040	3090	643	298	227	403
26	536	[illegible]	7[illegible]	3570	2990	2870	a 6220	3030	660	269	137	487
27	[illegible]	[illegible]	794	[illegible]	2970	3640	4800	2640	654	242	214	b 406
28	[illegible]	779	911	[illegible]	2980	3080	4450	2380	667	315	162	369
29	[illegible]	797	[illegible]	[illegible]		2790	4740	2150	538	178	151	479
30	544	797	[illegible]	1950		3430	5100	2300	613	160	185	431
31	[illegible]		[illegible]	[illegible]		4450		2090		177	179	
Mean	557	777	[illegible]	[illegible]	3855	3344	4715	3288	1344	363	186	363
Acr-Ft.	34270	46240	[illegible]	166[illegible]50	214120	205630	280050	202200	79990	22350	11450	21610

E — Estimated NR — No Record

Total Discharge in Acre-Feet 1113000

a - 23 hour day.
b - 25 hour day.

TABLE 103

DAILY CONTENT*
FOLSOM RESERVOIR

In thousands of acre-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	547.7	479.0	432.8	377.4	476.7	548.7	567.2	773.3	893.3	822.9	568.4	371.2
2	545.4	477.1	430.3	376.6	477.1	550.0	574.2	780.2	895.5	816.1	555.7	368.2
3	543.1	475.3	427.5	375.5	477.4	551.7	581.6	785.7	896.8	809.7	543.5	365.1
4	540.8	473.5	425.0	374.2	477.4	553.3	589.7	790.2	898.3	803.3	533.2	361.9
5	538.7	471.7	422.2	374.2	477.6	553.7	598.9	794.7	899.0	796.9	523.2	359.4
6	536.0	469.9	419.5	375.1	477.7	554.7	608.5	798.6	899.7	790.3	515.1	356.8
7	533.4	467.8	416.8	375.3	477.8	555.6	617.7	802.6	900.4	784.9	507.1	354.2
8	530.9	465.8	413.6	375.3	477.9	556.6	624.8	807.2	900.4	780.0	498.8	351.6
9	527.9	463.9	410.3	380.3	477.9	556.6	630.9	812.5	899.5	775.1	490.6	349.1
10	525.2	462.2	406.9	401.0	479.3	555.8	637.0	818.0	898.6	770.2	482.0	346.8
11	522.6	460.7	403.6	411.0	485.8	555.0	644.0	823.9	897.9	763.9	473.5	344.5
12	520.1	459.0	400.7	421.0	489.4	554.3	651.7	830.5	897.1	756.8	466.1	342.2
13	518.0	457.2	398.9	436.2	491.4	554.1	659.7	837.3	895.9	749.5	458.9	339.8
14	515.6	456.0	397.2	442.0	492.8	554.3	666.6	843.3	894.7	742.0	451.5	337.4
15	513.3	455.1	396.3	445.4	494.1	553.7	672.7	848.3	893.4	733.6	445.1	335.1
16	511.2	453.7	395.4	447.9	509.8	552.8	678.6	852.4	891.5	725.0	438.7	332.8
17	509.2	452.4	394.4	449.7	534.7	552.3	684.0	856.0	889.5	717.1	432.4	330.5
18	507.4	451.0	393.5	451.4	546.6	552.3	688.8	859.0	887.1	706.5	426.9	329.5
19	505.3	449.7	392.3	452.6	556.5	552.4	693.0	861.3	884.7	700.0	421.6	329.5
20	503.3	448.5	391.0	453.3	558.3	551.9	697.3	863.1	882.1	691.3	416.6	329.3
21	502.2	447.4	389.7	453.9	558.6	551.2	702.1	865.7	879.1	682.1	412.0	328.2
22	499.7	446.2	387.5	454.5	556.7	550.7	707.4	867.9	875.7	674.2	408.5	326.7
23	497.2	444.7	385.3	455.1	553.1	550.1	712.7	870.7	871.7	665.9	404.9	325.2
24	495.2	443.2	384.1	456.4	549.1	549.4	718.0	873.9	867.1	657.2	400.9	323.5
25	493.1	441.8	382.9	459.6	547.7	548.3	725.8	877.5	861.5	649.2	396.5	321.7
26	491.1	440.4	382.4	464.7	548.0	547.4	735.5	881.0	855.6	641.2	392.2	319.8
27	489.1	438.9	382.0	467.6	547.7	548.6	742.9	883.7	849.1	632.3	387.6	317.8
28	487.0	437.4	381.8	470.3	547.7	551.2	750.1	886.1	842.5	619.8	383.3	315.7
29	485.0	435.9	380.8	472.7	—	553.4	757.5	887.9	835.6	606.9	380.2	313.8
30	482.8	434.4	379.6	474.5	—	556.8	765.4	890.0	828.7	593.9	377.3	311.8
31	480.8	—	378.3	476.2	—	562.2	—	891.7	—	581.3	374.2	—
Monthly Change	-69.3	-46.4	-56.1	+97.9	+71.5	+14.5	+203.2	+126.3	-63.0	-247.4	-207.1	-62.4

Annual gain or loss in storage: 1956 Calendar Year -57,900; 1958-59 Water Year -238,300 Acre-Feet
Differences in storage from 1957-58 to 1958-59 Water Year: Maximums -116,400; Minimums -72,600 Acre-Feet

Period of record February 1955 to date. Records computed by U. S. Bureau of Reclamation.

TABLE 104

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT SACRAMENTO

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13300	12800	13200	11800	33900	[illegible]	17[illegible]	1[illegible]	[illegible]	[illegible]	13700	9460
2	12600	12900	13800	11400	34500	[illegible]	[illegible]	[illegible]	8550	9350	14100	9280
3	12400	12800	14000	11300	34000	41100	1400	[illegible]	8550	9390	14600	9570
4	12400	12800	14000	11200	31300	37000	21000	12600	8060	9610	14200	9670
5	12700	12500	13900	11600	27500	[illegible]	2677	[illegible]	7620	9740	13900	9930
6	12700	12200	13800	12300	24700	33200	20700	12000	7890	10100	13100	10200
7	12400	12200	13900	15500	21300	31400	[illegible]	11900	7840	9800	12800	10300
8	12300	12300	13600	21400	20400	[illegible]	19500	12000	7930	9520	12900	10200
9	12300	12200	13500	23200	19900	28800	17800	11600	7930	9340	13200	10300
10	12500	12300	13700	28000	19900	27900	15400	11500	7490	9040	13500	10400
11	12300	12600	13600	35600	23100	27200	14100	11700	7670	9190	13100	10400
12	12200	13100	13400	37600	26500	26500	14000	11400	7540	9610	13000	10500
13	12100	13400	13000	40400	26400	26300	13300	11300	7450	10000	12700	10400
14	12600	13000	12500	46600	23600	25400	12700	11700	7540	9830	12400	10100
15	12700	12900	12000	48500	21500	24300	11700	12000	7760	9970	11900	9980
16	12800	13800	11900	46100	25100	23700	9910	12200	7450	10300	12200	9930
17	12700	13800	11900	41500	38200	23200	9210	12300	7140	10300	12200	9800
18	12800	13600	11800	36100	54900	22700	8940	11900	7450	10700	11700	10400
19	12800	13500	11700	32000	65000	22500	9300	11700	7450	10800	11100	11100
20	13100	13700	11900	29600	67300	22000	9210	11300	7620	10900	10800	13200
21	13000	13600	11800	27500	66800	21500	9340	10900	7670	11200	11000	15300
22	13200	13600	11600	25700	65300	21000	9080	10600	7840	11100	10400	15500
23	12900	13600	11800	24200	64000	21200	8460	10400	7710	11100	10700	13800
24	12800	13400	12200	23600	63000	22000	8550	10400	7800	11100	10700	12500
25	12700	13300	11900	23800	61300	22500	9030	10800	8150	11300	10300	11900
26	12800	13400	12000	24700	59800	21600	10000	10600	8680	11200	10400	11200
27	12700	13300	12100	27200	58400	21500	11100	10500	8770	11200	10700	10700
28	12800	13200	12600	28100	56000	20800	13800	10400	9210	12600	10300	10400
29	12600	13400	13100	28300		20500	13100	10500	9250	13100	9560	10300
30	12600	13300	12700	30400		20200	12600	10400	9430	13200	9600	9680
31	13000		11700	32800		20500		9870		13400	9810	
Mean	12670	13080	12730	27350	40490	27120	13930	11410	8016	10550	11950	10880
Ac-Ft	779100	778500	782700	1682000	2248000	1667000	828800	701700	477000	648900	735000	647400

E — Estimated NR — No Record Total Discharge in Acre-Feet 11480000

TABLE 105

DAILY MEAN DISCHARGE
MIDDLE CREEK NEAR UPPER LAKE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							8 E	—	3.8	2.0		
2							48 E		3.8	1.8		
3							31 E		3.8	1.8		
4							—		3.6	1.6		
5									3.6	1.6		
6								6.8 E	3.8	1.6		
7									3.8	1.5		
8									3.8	1.3		
9							17 E		3.8	1.3		
10									3.8	1.5		
11								5.8	3.6	1.3		
12								5.5	3.3	1.3	N	N
13								5.2	3.1	1.3	O	O
14								5.0	3.1	1.3		
15							13	5.0	3.3	1.1		
16						NR	12	4.8	3.1	1.1	F	F
17						NR	12	4.5	2.9	0.9	L	L
18						NR	12	4.0	2.9	0.9	O	O
19						NR	12	4.0	2.9	0.9	W	W
20						NR	11	4.0	2.7	0.9		
21						NR	11	3.8	2.7	0.9		
22						NR	11	3.8	2.7	0.9		
23						NR	11	3.8	2.7	0.8 E		
24						NR	11	3.8	2.5	0.7 E		
25						NR	12	3.6	2.5	0.5 E		
26						NR	15	3.6	2.5	0.4 E		
27						NR	12	3.6	2.5	0.2 E		
28						NR	11 E	3.6	2.7	0.1 E		
29					—	NR	10 E	3.8	2.5	0 E		
30					—	NR	.3 E	3.6	2.2	0 E		
31		—			—	90	—	3.6	—	0 E		—
Mean							1[illegible].3	5.0	3.1	1.0	0	0
Ac-Ft							1030	310	186	62	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 106

DAILY MEAN DISCHARGE
CLOVER CREEK NEAR UPPER LAKE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							7.1	NR	NR	NR		
2							6.4	NR	NR	0.1 E		
3							6.0	NR	NR	0		
4							5.7	NR	NR	0		
5							5.0	NR	NR	0		
6							5.0	NR	NR	0		
7							4.7	NR	NR	0		
8							4.4	NR	1.0 E	0		
9							4.7	NR	NR	0		
10							4.7	NR	NR	0		
11							4.4	3.2 E	NR	0		
12							4.4	NR	NR	0	N	N
13							4.4	NR	NR	0	O	O
14							4.4	NR	NR	0		
15							4.1	NR	NR	0		
16						NR	4.1	NR	NR	0	F	F
17						NR	4.1	NR	NR	0	L	L
18						NR	4.1	NR	NR	0	O	O
19						NR	3.8	NR	NR	0	W	W
20						NR	3.8	NR	NR	0		
21						NR	4.1	NR	NR	0		
22						NR	3.8	NR	NR	0		
23						NR	3.8	NR	0.8 E	0		
24						NR	3.8	NR	NR	0		
25						NR	6.8	1.8 E	NR	0		
26						NR	4.4	NR	NR	0		
27						NR	4.1	NR	NR	0		
28						NR	3.8	NR	NR	0		
29						NR	NR	NR	NR	0		
30						NR	NR	NR	NR	0		
31						8.4		NR		0		
Mean											0	0
Ac-Ft											0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 107

DAILY MEAN DISCHARGE
BEAR CREEK NEAR RUMSEY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.0	2.1	2.8	3.8	10	43	15	6.3	3.1	1.3	0.5	0.8
2	2.0	2.4	2.8	3.8	9.6	40	14	6.3	2.9	1.1	0.5	0.8
3	2.0	2.4	2.8	3.8	9.2	37	14	6.0	2.9	1.1	0.5	0.9
4	2.1	2.4	2.8	4.1	9.5	33	14	5.6	2.9	1.1	0.6	0.9
5	2.1	2.4	3.0	87	9.4	31	14	5.3	2.8	1.0	0.5	0.9
6	2.1	2.4	3.0	85	9.0	30	13	5.6	2.6	1.0	0.6	0.9
7	2.3	2.3	3.0	27	8.5	29	11	5.0	2.4	0.9	0.6	0.8
8	2.3	2.4	3.0	119	9.2	26	11	4.7	2.2	0.9	0.5	0.8
9	2.3	2.4	3.0	409	10	25	11	4.7	2.0	1.1	0.4	0.8
10	2.4	2.6	3.0	68	112	23	11	4.9	2.2	1.1	0.4	0.8
11	2.6	2.4	3.2	40	100	22	11	4.6	2.2	1.1	0.2	0.8
12	2.6	2.3	3.2	135	36	22	10	4.4	2.0	1.1	0.2	0.7
13	3.2	2.4	3.2	59	27	22	10	3.9	1.9	1.0	0.2	0.9
14	2.6	2.4	3.2	31	52	20	10	3.9	1.7	1.0	0.4	0.9
15	2.1	2.6	3.2	23	342	19	9.3	4.2	1.9	1.1	0.4	1.0
16	2.1	2.6	3.2	19	2060	19	9.2	4.0	1.9	1.4	0.5	1.1
17	2.1	2.6	3.2	17 E	1430	19	9.2	4.0	1.9	1.5	0.5	1.2
18	2.1	2.6	3.2	15 E	435	18	9.2	4.1	1.7	1.1	0.5	4.2
19	2.1	2.8	3.3	13 E	211	18	9.1	4.1	1.7	0.9	0.7	5.8
20	2.1	2.8	3.5	13	154	17	7.7	3.9	1.5	0.9	0.8	3.0
21	1.8	2.8	5.4	12	165	17	7.6	3.7	1.5	0.8	1.2	2.0
22	2.0	2.6	5.4	11	110	18	7.3	3.7	1.5	0.8	1.2	1.8
23	2.1	2.6	4.0	11	88	19	6.6	4.0	1.4	0.8	1.0	1.5
24	2.1	2.6	3.8	12	75	19	6.6	4.2	1.9	0.6	0.8	1.4
25	2.1	2.6	4.0	26	66	18	6.5	4.0	1.7	0.6	0.8	1.4
26	2.3	2.6	5.2	23	58	18	7.8	3.8	1.7	0.5	0.9	1.4
27	2.3	2.6	6.8	16	52	17	6.8	3.8	1.9	0.5	0.7	1.3
28	2.3	2.8	5.7	15	46	16	6.4	3.9	1.9	0.5	0.8	1.2
29	2.3	2.8	4.4	13		16	6.7	3.7	1.7	0.5	0.9	1.1
30	2.0	2.8	4.2	12		16	6.4	3.5	1.4	0.5	0.9	1.1
31	2.1		4.2	11		16		3.1		0.5	0.9	
Mean	2.2	2.5	3.7	43.1	204	22.7	9.7	4.4	2.0	0.9	0.6	1.4
Ac-Ft.	136	151	228	2653	11310	1394	578	271	121	56	39	84

E — Estimated NR — No Record Total Discharge in Acre-Feet 17020

TABLE 108

DAILY MEAN DISCHARGE
SCOTT CREEK NEAR LAKEPORT

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							28 E	4.8	1.1			
2							22 E	4.5	1.6			
3							16 E	4.0	1.1			
4							16 E	4.0	0.8			
5							16 E	4.0	0.4			
6							15 E	4.0	0.2			
7							14 E	3.4	0.1			
8							14 E	3.0	0.1			
9							14 E	3.2	0			
10							13 E	3.0	0			
11							13 E	3.0	0			
12							13 E	2.7	0	N	N	N
13							12 E	2.7	0	0	0	0
14							12 E	2.5	0			
15							11 E	2.5	0			
16						NR	11 E	2.5	0	F	F	F
17						NR	10 E	2.3	0	L	L	L
18						NR	10 E	2.3	0	0	0	0
19						NR	10 E	2.3	0	W	W	W
20						NR	9.6 E	2.1	0			
21						NR	9.2 E	1.9	0			
22						NR	9.2 E	1.4	0			
23						NR	8.7 E	1.4	0			
24						NR	8.3 E	1.2	0			
25						NR	9.0 E	1.1	0			
26						NR	10 E	1.2	0			
27						NR	8.2 E	1.1	0			
28						NR	5.8	1.1	0			
29						NR	5.1	1.1	0			
30						NR	5.1	1.0	0			
31						36 E		1.0				
Mean							11.9	2.5	0.2	0	0	0
Ac-Ft							710	151	11	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 109

DAILY MEAN DISCHARGE
PLEASANTS CREEK NEAR WINTERS

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0.1	0.8	0.8	13	3.3	0.5				
2		0	0.1	0.8	0.8	11	3.3	0.6				
3		0	0.1	0.8	1.0	9.7	3.1	0.5				
4		0	0.1	1.0	1.0	8.3	2.7	0.5				
5		0	0.1	30	1.0	8.3	2.3	0.2				
6		0	0.1	16	1.1	8.0	2.0	0.2				
7		0	0.1	1.5	1.1	7.7	1.8	0.2				
8		0	0.1	17	1.2	6.8	1.8	0.2				
9		0	0.1	129	1.5	6.5	2.0	0.2				
10		0	0	5.5	43	6.2	1.8	0.1				
11		0	0	1.2	17	5.7	1.7	0.1				
12	N	0	0	22	6.6	5.4	1.4	0.1	N	N	N	N
13	0	0	0	3.4	3.9	5.4	1.2	0	0	0	0	0
14		0	0	1.5	3.4	5.4	1.4	0				
15		0.1	0	1.1	53	4.9	1.1	0.1				
16	F	0.1	0	1.2	819	4.7	1.1	0.2	F	F	F	F
17	L	0.1	0	1.0	312	4.7	1.2	0.2	L	L	L	L
18	0	0.1	0	1.0	238	4.4	1.1	0.3	0	0	0	0
19	W	0.1	0.1	0.8	87	4.4	0.9	0.2	W	W	W	W
20		0.1	0	0.7	54	4.2	0.7	0.1				
21		0.1	0.1	0.8	50	3.9	0.7	0				
22		0.1	0.1	0.8	35	4.2	0.7	0				
23		0.1	0.1	0.7	27	4.7	0.6	0				
24		0.2	0.2	1.0	22	3.9	0.6	0				
25		0.1	0.3	2.6	19	3.7	0.6	0.1				
26		0.1	0.4	1.9	18	3.7	1.2	0.1				
27		0.1	0.7	1.4	15	3.3	0.7	0.1				
28		0.1	0.7	1.1	14	3.9	0.6	0.1				
29		0.1	0.7	1.0		3.3	0.7	0.1				
30		0.1	0.7	1.0		3.7	0.6	0.1				
31			0.7	1.0		3.3		0				
Mean	0	0.1	0.2	8.1	65.9	5.7	1.4	0.2	0	0	0	0
Ac-Ft.	0	3	11	495	3662	350	85	10	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 4616

TABLE 110

DAILY MEAN DISCHARGE
PUTAH CREEK BELOW WINTERS

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	11	8.6	10	19	0	46			
2			0	9.3	8.6	10	18	0	39			
3			0	5.3	7.8	7.8	16	7.4	2.4			
4			0	2.4	7.2	4.7	12	10	2.8			
5			0	13	7.2	3.2	10	0.6	2.0			
6			0	65	6.5	5.9	8.6	2.7	0			
7			0	46	7.8	5.9	3.7	6.5	0			
8			0	22	6.5	5.3	5.9	7.2	0			
9			6.3	297	7.2	5.3	7.2	5.3	0			
10			7.8	91	11	4.2	7.2	5.9	0			
11			2.0	44	30	3.7	7.8	4.7	0			
12	N	N	0.1	29	29	4.7	7.8	12	0	N	N	N
13	O	O	0	33	17	4.2	7.2	4.2	0	O	O	O
14			0	18	12	3.7	11	3.7	0			
15			0	10	12	3.7	8.6	2.0	0			
16	F	F	0	8.6	2280	79	7.8	2.1	0	F	F	F
17	L	L	0	7.2	842	434	7.8	0	0	L	L	L
18	O	O	8.6	5.3	560	429	7.8	0	0	O	O	O
19	W	W	10	4.2	168	475	7.2	0	0	W	W	W
20			7.8	2.4	86	469	7.2	1.8	0			
21			9.3	4.2	81	301	6.5	7.2	0			
22			7.8	14	53	296	5.9	17	0			
23			7.2	17	38	296	4.7	21	0			
24			11	18	23	287	4.2	21	0			
25			11	18	20	283	3.7	22	0			
26			12	18	18	168	3.7	27	0			
27			14	18	14	86	2.8	19	0			
28			13	17	11	38	2.4	18	0			
29			12	16		26	2.0	48	0			
30			11	15		22	2.1	49	0			
31			13	11		19		46				
Mean	0	0	5.3	28.7	156	122	7.5	12.0	3.1	0	0	0
Ac-Ft	0	0	325	1765	8673	7518	488	736	183	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 19650

TABLE 111

DAILY MEAN DISCHARGE
PUTAH CREEK ABOVE DAVIS

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0.5	13	14	29	15	4.3	35			
2		0	0.6	11	13	27	15	3.6	33			
3		0	0.6	7.1	13	24	13	3.6	8.2			
4		0	0.7	4.3	13	20	9.4	8.2	3.9			
5		0	0.7	12	13	13	8.8	6.1	3.9			
6		0	0.7	68	12	17	7.7	3.6	3.6			
7		0	0.7	51	14	15	4.3	5.2	2.6			
8		0	0.7	23	14	13	5.2	7.7	2.6			
9		0	0.7	284	16	12	5.6	7.1	2.9			
10		0	1.5	94	21	11	5.6	7.1	2.9			
11		0	3.9	43	43	9.4	6.1	7.1	2.9			
12	N	0	1.7	24	47	8.8	5.6	9.4	2.6	N	N	N
13	O	0	0.9	30	28	7.7	5.6	8.2	2.6	O	O	O
14		0	0.7	16	23	6.6	7.1	6.1	2.6			
15		0	0.7	11	22	5.6	7.1	4.3	2.3			
16	F	0	0.7	8.2	2650	70	6.1	4.7	2.0	F	F	F
17	L	0	0.7	7.1	1150	431	6.6	3.9	2.0	L	L	L
18	O	0	0.7	6.1	905	504	6.6	3.6	2.0	O	O	O
19	W	0	6.1	5.6	286	519	6.6	1.7	1.7	W	W	W
20		0	5.6	4.3	149	519	6.6	2.0	1.1			
21		0	7.7	3.9	149	302	6.6	2.0	0.6			
22		0	6.6	12	110	306	6.6	10	0			
23		0	6.1	17	79	298	6.1	15	0			
24		0	9.4	18	54	298	6.1	16	0			
25		0.2	12	20	43	302	6.1	17	0			
26		0.1	12	20	43	195	6.1	20	0			
27		0.2	14	20	35	92	6.1	16	0			
28		0.2	13	20	31	37	5.6	14	0			
29		0.5	13	20		22	5.2	33	0			
30		0.5	11	20		18	5.2	46	0			
31			13	16		16		36				
Mean	0	0.1	4.7	29.3	214	134	7.1	10.7	4.0	0	0	0
Ac-Ft	0	3	291	1804	11880	8228	423	660	240	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 23530

TABLE 112

DAILY MEAN DISCHARGE
SOUTH FORK PUTAH CREEK NEAR DAVIS

In second-feet

Date	1958			1959								
	Oct	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.9		0	3.7	7.4	20	17	5.4	20	0	2.8	0
2	5.2		0	3.4	6.2	18	17	4.0	21	0	4.9	0.4
3	4.5		0	1.0	5.6	16	19	5.5	12	0	6.2	0.3
4	1.1		0	0	6.2	13	16	4.0	1.3	0	2.7	2.1
5	0.3		0	0	6.2	7.7	11	1.6	0	0	0	1.7
6	3.0		0	38	5.8	9.8	9.6	0.5	0	0	4.7	5.2
7	3.3		0	31	6.4	11	4.3	0.2	0	0	5.9	1.8
8	2.2		0	21	6.9	9.6	3.5	0	0	0	3.6	0.9
9	2.2		0	221	6.9	8.9	6.6	0	0	0	5.5	0
10	2.5		0	101	12	8.2	11	0	0	0	3.4	0
11	1.3		0	39	23	6.9	12	1.9	1.7	0	1.8	0
12	2.8	N	0	23	33	6.9	17	3.7	0.7	1.1	2.7	0.3
13	3.0	O	0	22	22	7.4	14	1.8	0	1.4	1.6	4.5
14	2.8		0	15	14	6.7	5.9	0	3.0	0	1.6	1.3
15	1.9		0	6.4	13	5.6	8.9	3.9	1.2	0	3.7	0.9
16	2.3	F	0	2.0	2530	56	7.0	7.0	0	0	3.1	0.3
17	3.3	L	0	0.5	1010	388	6.6	1.8	1.4	0	0.4	0
18	3.6	O	0	0	947	486	8.4	2.3	2.0	0	0	1.8
19	3.6	W	0	0	295	486	7.4	0.1	2.2	2.5	2.1	1.6
20	4.1		0	0	139	467	4.7	5.9	0.1	2.7	6.4	0.8
21	3.7		0	0	120	314	4.0	3.7	3.3	1.8	8.2	2.5
22	1.7		0	0	86	291	4.0	4.9	3.0	6.4	4.0	0.5
23	0		0	7.0	57	282	2.6	0.2	0.2	11	1.4	0
24	0		0	12	36	274	3.0	1.4	0	10	4.7	0
25	0		0	14	27	274	2.7	7.4	0	0.3	6.7	0
26	0		0	14	25	180	4.8	6.1	0	1.2	1.8	0
27	0		0	14	23	103	4.7	8.2	0.1	4.3	0.1	0
28	0		0	14	21	57	5.8	4.8	3.3	2.9	0.3	0
29	0		0.8	13		27	1.8	6.2	2.2	2.1	0.8	0
30	0		1.8	13		26	0.2	21	0	0.6	2.2	0
31	0		1.8	10		19		19		2.0	2.7	
Mean	2.1	0	0.1	20.6	196	125	8.0	4.3	2.6	1.6	3.1	0.9
Ac-Ft	127	0	9	1267	10890	7707	477	263	156	100	190	53

E — Estimated NR — No Record

Total Discharge in Acre-Feet 21240

TABLE 113

DAILY MEAN INFLOW
MILLERTON LAKE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1445	1098	1407	498	489	1359	1891	3124	2627	1216	1047	824
2	1460	1264	1431	779	853	2136	2743	3139	2627	1329	357	787
3	1378	1520	1307	571	567	2342	2785	2458	2579	1088	971	721
4	1422	1387	1333	655	784	2561	2478	2563	2614	1036	723	737
5	1333	1373	1277	1285	714	2318	2764	2195	2631	997	838	191
6	1501	1293	1301	1138	751	2456	2544	2460	2664	1027	1006	225
7	1380	1413	1214	982	753	2314	2823	2600	2529	1337	1019	203
8	1523	1211	1314	869	481	2274	2843	2545	2569	1320	656	809
9	1356	1221	1348	1162	860	2369	2585	2612	2591	1294	448	796
10	1537	1459	1117	1596	1105	2142	2408	2597	2586	1218	1002	988
11	1207	1259	1282	1460	2268	2072	2731	3048	2599	1102	858	808
12	1396	1387	1179	1401	1462	2388	2873	3217	2695	613	921	561
13	1400	1214	1116	1360	1269	2195	2715	3057	2652	1121	1057	367
14	1332	1401	1138	1153	1732	2072	2526	2914	2654	1073	842	896
15	1424	1298	1170	1225	2887	2009	2220	2515	2579	1137	445	849
16	1386	1183	1075	1096	4095	1896	2325	2669	2303	1170	162	790
17	1409	1357	1299	1078	4921	2128	2313	2513	2213	1084	831	718
18	1402	1265	917	857	3347	2141	2429	2562	2107	651	794	1240
19	1218	1345	1159	1067	3153	2177	2137	2586	2097	614	911	3311
20	1439	1328	1024	1014	2624	2044	2254	2577	1918	1105	919	2372
21	1355	1463	1044	739	2333	2181	2289	2608	1874	1122	617	1755
22	1391	1270	1094	664	2159	2008	2541	2522	2129	1151	549	1296
23	1310	1198	1171	777	2105	1707	2413	2355	2054	1166	152	1159
24	1388	1440	877	672	2105	2047	2306	2050	2042	1130	814	1236
25	1392	1358	536	677	1893	2107	2741	2026	1941	1093	772	1251
26	1133	1310	580	879	1958	1764	a 2627	2188	1830	732	909	936
27	1412	1214	839	827	1884	1816	2557	2372	1576	965	912	b 759
28	1396	1377	699	866	1900	1798	2350	2384	1374	1094	204	1300
29	1347	1221	906	839		1875	2937	2642	1256	994	484	1133
30	1389	1261	948	796		1777	2925	2635	1242	973	172	1050
31	1363		911	698		2116		2611		1097	805	
Mean	1381	1313	1097	957	1838	2084	2536	2592	2238	1066	716	1002
Ac-Ft	84940	78125	67464	58869	102054	128110	150671	159360	133194	65552	44027	59702

E — Estimated NR — No Record

a - 23 hour day.
b - 25 hour day.

Total Discharge in Acre-Feet 972700

TABLE 114

DAILY CONTENT*
MILLERTON LAKE

In thousands of acre-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	156.1	168.1	224.3	286.2	341.4	393.6	334.3	396.5	459.6	354.6	240.3	150.[illegible]
2	155.5	169.7	227.0	287.6	341.9	395.0	334.6	401.8	459.9	379.2	235.0	149.7
3	154.8	171.6	229.5	288.6	341.4	396.0	335.1	405.6	459.8	374.5	231.1	148.7
4	154.3	173.3	232.0	289.8	340.9	396.3	335.2	409.5	459.8	370.0	226.7	148.0
5	153.5	174.9	234.4	292.2	340.5	396.6	335.9	412.4	459.7	365.1	222.6	146.4
6	152.9	176.3	236.9	294.4	341.3	397.6	336.0	415.5	459.7	360.2	218.9	144.9
7	152.2	178.0	239.1	296.2	342.1	398.0	336.7	418.8	459.1	355.9	215.5	143.3
8	151.8	179.2	241.6	297.8	342.2	397.8	337.3	421.6	458.2	351.4	212.0	142.9
9	151.5	180.4	244.2	300.0	342.8	396.7	337.9	424.1	457.3	347.0	208.5	142.4
10	151.9	182.1	246.3	303.0	343.6	394.9	339.1	426.3	456.2	342.7	205.9	142.5
11	151.7	183.4	248.7	305.8	346.8	392.7	341.4	429.3	455.3	338.2	202.7	142.7
12	151.9	185.1	250.9	308.5	348.7	390.7	344.0	432.5	454.2	332.3	199.7	142.4
13	152.0	186.4	253.0	311.0	350.0	388.2	346.3	435.2	452.6	327.2	196.9	141.7
14	152.2	188.2	255.2	313.2	351.7	385.3	348.0	437.6	450.8	321.9	194.0	142.1
15	152.5	190.1	257.3	315.5	355.7	381.9	349.1	439.4	448.5	316.7	190.7	142.4
16	152.3	191.9	259.3	317.6	362.1	377.9	350.5	441.5	445.7	311.6	186.7	142.5
17	152.4	194.1	261.8	319.6	370.2	374.0	352.2	443.4	442.7	306.5	183.7	142.6
18	152.9	196.2	263.5	321.2	375.0	370.1	354.1	445.3	439.6	300.7	180.8	143.9
19	153.3	198.5	265.6	323.2	379.3	366.3	355.5	447.0	436.7	294.9	178.1	149.5
20	154.5	200.7	267.5	325.1	381.8	362.5	357.3	448.6	433.4	290.5	175.8	153.4
21	155.4	203.1	269.5	326.5	384.3	359.3	359.8	450.3	429.7	286.1	173.3	155.9
22	156.6	205.2	271.5	327.7	386.3	356.1	362.8	451.8	426.2	281.8	170.6	157.5
23	157.6	207.0	273.7	329.1	388.1	352.3	365.6	453.0	422.2	277.6	167.0	158.7
24	158.9	209.2	275.4	330.3	389.8	349.5	368.2	453.4	418.3	273.7	164.7	160.1
25	160.2	211.3	276.3	331.5	390.7	347.0	371.7	453.5	414.2	270.0	162.5	161.5
26	161.0	213.2	277.3	333.2	391.5	344.3	375.1	453.9	410.0	265.5	160.9	162.3
27	162.3	214.9	278.9	334.7	392.3	342.0	378.7	454.6	405.5	261.1	159.4	162.7
28	163.4	217.2	280.2	336.3	393.4	340.2	382.2	455.3	400.8	257.0	156.8	164.2
29	164.5	219.4	281.8	337.8	——	338.5	386.9	456.6	395.8	252.5	155.1	165.3
30	165.8	221.7	283.6	339.3	——	336.7	391.5	458.0	390.7	248.2	152.9	166.1
31	167.1	——	285.3	340.5	——	335.8	——	459.1	——	244.3	151.8	——
Monthly Change	+10.5	+54.6	+63.6	+55.2	+52.9	-57.6	+[illegible].7	+67.6	-68.4	-146.4	-92.5	+14.3

Annual gain or loss in storage: 1958 Calendar Year -22,000; 1958-59 Water Year +9,500 Acre-Feet
Differences in storage from 1957-58 to 1958-59 Water Year: Maximums -65,500; Minimums -14,900 Acre-Feet

Period of record October 1941 to date. Records computed by U. S. Bureau of Reclamation.

TABLE 115

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER AT WHITEHOUSE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	44	43	45	26	28	54	15	32	19	57	17	26
2	45	39	45	26	33	52	14	21	12	53	23	23
3	45	39	46	29	30	54	14	16	13	42	35	20
4	41	39	44	29	29	48	16	21	15	41	35	20
5	48	37	41	33	27	42	15	29	12	47	38	22
6	39	36	36	36	27	41	16	33	11	49	37	25
7	39	36	31	38	30	39	14	35	11	47	27	27
8	41	32	39	40	40	38	13	32	12	42	23	26
9	39	31	26	47	44	37	15	32	12	38	18	27
10	41	33	26	51	48	35	11	32	13	35	15	28
11	41	34	26	48	44	35	10	32	15	31	14	25
12	41	36	25	46	54	60	10	28	16	28	13	23
13	41	37	24	44	54	41	32	2	16	32	10	25
14	41	36	23	36	58	31	39	24	13	36	12	31
15	41	36	22	33	75	33	41	18	17	36	22	38
16	40	37	23	32	78	29	39	15	14	26	32	35
17	41	39	22	31	65	22	31	13	13	22	41	35
18	41	39	21	30	54	19	30	15	10	20	43	30
19	41	39	20	31	66	23	29	15	11	20	40	32
20	38	40	21	31	74	18	32	18	11	28	32	32
21	37	39	21	29	74	15	33	22	13	34	24	40
22	39	39	24	29	76	21	30	24	13	34	22	41
23	41	41	26	30	69	24	30	33	12	28	36	34
24	39	43	26	31	71	23	31	33	9	23	36	30
25	43	41	24	32	69	22	29	30	6	24	43	28
26	45	41	24	31	64	20	a 34	30	4	24	47	22
27	45	41	26	33	61	16	41	30	8	30	48	b 19
28	44	41	24	31	56	15	44	30	17	29	44	17
29	47	44	27	28		14	44	30	37	28	34	16
30	45	44	30	29		14	40	25	47	24	28	14
31	45		26	28		15		25		20	28	
Mean	42	38	29	34	54	31	26	26	14	33	30	27
Ac-Ft	2575	2285	1753	2079	2971	1884	1568	1593	857	2039	1819	1610

E — Estimated NR — No Record
a - 23 hour day
b - 25 hour day

Total Discharge in Acre-Feet 23030

TABLE 116

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER NEAR MENDOTA

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	201	27	28	19	10	106	463	233	324	487	433	284
2	197	24	26	13	10	106	433	239	289	477	436	270
3	159	24	23	12	10	109	409	256	336	447	433	266
4	96	23	23	10	10	140	381	263	336	386	430	268
5	119	23	37	12	26	168	331	302	336	381	399	275
6	131	23	85	13	51	176	302	322	338	391	396	282
7	113	23	88	13	53	166	277	314	341	425	396	284
8	60	23	88	14	55	164	298	298	341	452	412	291
9	37	22	88	18	39	164	358	293	341	472	420	293
10	35	22	86	20	18	185	417	289	353	474	425	295
11	28	23	96	22	17	212	391	300	368	474	415	295
12	22	24	121	24	16	239	376	365	366	477	399	295
13	39	24	147	26	16	261	343	394	368	480	396	295
14	74	24	144	20	16	279	331	391	368	477	402	307
15	76	26	96	10	48	307	356	377	386	474	402	334
16	76	27	55	9	83	305	343	314	402	469	409	329
17	72	28	38	9	86	295	322	295	417	455	409	322
18	68	28	28	7	82	259	312	310	436	452	403	314
19	68	28	21	5	76	230	307	322	422	452	386	282
20	71	27	16	9	67	225	302	331	402	452	363	237
21	72	29	12	5	44	277	300	324	407	452	353	229
22	72	31	10	6	16	279	310	328	415	460	324	266
23	65	30	8	19	15	279	319	341	417	477	319	343
24	55	54	9	26	31	319	322	368	425	474	338	343
25	54	104	8	27	71	373	288	396	452	469	376	343
26	53	106	8	31	83	277	102	396	452	466	368	341
27	53	108	7	37	104	185	161	394	466	455	366	341
28	53	109	6	39	106	144	233	389	472	436	363	341
29	53	104	10	36		108	229	381	477	430	366	341
30	53	37	17	11		131	229	348	483	444	366	252
31	39		20	9		458		356		438	331	
Mean	76	40	47	17	45		318	336	391	453	388	299
Ac-Ft	4690	2390	2870	1050	2500	13740	18930	20280	23280	27870	23850	17760

E — Estimated NR — No Record

Total Discharge in Acre-Feet 159200

TABLE 117

DAILY MEAN DISCHARGE
DRAIN AT HEAD OF FIREBAUGH WASTEWAY NEAR FIREBAUGH

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.8	0.1				0	4.4	5.0	5.4	10	10	5.4
2	6.9	0.1				0	11	5.9	4.1	9.6	8.1	10
3	6.9	0.1				0	11	7.6	2.5	9.7	8.5	10
4	8.0	0.1				0	6.5	9.8	2.2	12	7.6	10
5	10	0.1				0	7.0	6.6	3.3	14	5.9	4.9
6	6.0	0.1				0	8.0	4.2 E	3.6	14	5.6	3.6
7	4.6	0.1				0	11	3.4 E	7.2	13	6.2	2.2
8	2.9	0.1				0	3.3	2.8 E	7.7	7.2	4.9	0.8
9	1.0	0.1				0	3.6	2.7 E	6.6	6.3	7.0	4.3
10	0.2	0.1				0	0.8	3.3 E	2.2	4.8	6.6	2.9
11	0.1	0.1				0	0.7	3.3 E	3.3	4.0	7.3	1.7
12	0.1	1.6	N	N	N	0	0.6	3.4 E	6.3	4.0	6.9	1.6
13	0.1	1.5	0	0	0	0	2.3	3.4	5.2	3.7	5.9	3.5
14	0.1	0.2				0	4.5	3.5	6.7	3.3	6.4	1.7
15	0.1	0.1				0	4.6	4.2	6.7	3.5	7.9	0.8
16	0.1	0.1	F	F	F	0	5.0	4.3	8.8	5.4	8.0	1.5
17	0.1	0.1	L	L	L	0.9	4.8	4.1	8.0	6.6	5.3	1.5
18	0.1	5.5	O	O	O	9.8	4.9	4.4	7.6	6.7	7.6	1.0
19	0.1	7.2	W	W	W	8.0	6.0	5.9	9.5	5.4	10	3.3
20	0.1	3.1				4.4	12	7.3	6.1 E	5.3	11	3.4
21	0.1	0.3				3.0	9.0	6.7	5.8 E	5.5	9.3	1.9
22	0.1	0.1				4.1	6.3	5.2	5.3	7.5	7.6	1.5
23	0.1	0.1				3.4	7.6	5.6	5.8	9.6	7.3	1.0
24	0.1	0.1				6.2	5.4	6.7	5.2	11	9.5	0.4
25	0.1	0.1				[illegible]	.3	7.7	5.0	13	7.4	0.5
26	0.1	0.1				1.6	7.8	11	7.3	14	6.6	0.5
27	0.1	0				2.1	5.8	11	8.0	15	3.9	2.8
28	0.1	0				3.0	4.2	3.6	8.8	14	6.2	4.2
29	0.1	0				2.5	5.4	3.0	11	14	4.7	3.1
30	0.1	0				3.6	3.6	3.0	11	13	3.9	0.6
31	0.1					2.4		4.1		12	6.6	
Mean	1.7	0.7	0	0	0	1.8	5.7	5.2	6.2	8.9	7.1	3.0
Ac-Ft	106	42	0	0	0	113	342	323	369	550	436	180

E — Estimated NR — No Record

Total Discharge in Acre-Feet 2461

TABLE 118

DAILY MEAN DISCHARGE
HELM RANCH DRAIN AT FIREBAUGH WASTEWAY NEAR FIREBAUGH

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8 E	0.1	0.2			0	0.7 E	2.1	1.0	1.6	3.1 E	7.6
2	2.9	0.1	0.2			0	0.2	0.5	1.1	0.9	3.2 E	7.9
3	1.4	0.1	0.1			0	0.1	0.1	1.4	0.6	3.3 E	3.5
4	0.5	0.1	0.1			1.4	0.2	0.2	1.6	1.0	3.4 E	5.3
5	0.7	0.1	0			0	1.9	1.0	1.6	1.7	2.6 E	6.5
6	0.6	0.1	0			0	1.3	1.2	1.6	0.4	1.5	3.6
7	1.4	0.1	0			0.1	0.4	1.1	1.6	0.6	1.6	2.4
8	0.5	0.1	0			1.5	0.6	1.1	1.7	2.6	1.2	4.3
9	0.6	1.5	0			1.8	0.5	1.0	3.1	3.4	1.4	2.9
10	0.4	2.1	0			3.0	0.3	0.7	3.8	3.8	1.3	1.5
11	0.2	5.4	0			2.9	0.4	0.7	5.0	3.5	1.2	1.0
12	0.2	4.3	1.1	N	N	3.7	5.3	0.4	6.3	2.3	3.2	5.0
13	0.2	3.0	0.2	O	O	2.4	4.2	0.2	6.3	2.6	4.1	4.5
14	0.2	1.3	0.1			3.7	2.2	0.5	5.7	1.9	6.7	1.2
15	0.3	0.6	0			2.9	2.0	4.4	4.2	4.2	5.4	0.9
16	0.3	0.6	0	F	F	0.7	2.5	2.5	2.0	3.2	2.0	2.1
17	0.2	0.5	0	L	L	0.9	1.4	0.9	1.1	3.4	3.2	2.3
18	0.1	0.5	0	O	O	1.6	0.9	0.5	1.4	2.7	5.2	1.3
19	0.1	0.4	0	W	W	2.1	0.8	1.8	3.6	4.4	5.0	2.7
20	0.1	0.4	0			2.7	0.9	6.6	4.2	2.8	1.9	2.3
21	0.1	0.4	0			0.7	0.8	5.4	6.3	2.4	1.4	2.2
22	0.1	0.3	0			0.3	1.3	3.7	9.0	3.1	3.7	0.6
23	0.1	0.2	0			2.3	1.6	4.8	5.7	2.0	3.0	0.4
24	0.1	0.2	0			1.5 E	2.1	3.3	4.1	1.8	4.9	0.3
25	0.1	0.1	0			1.2 E	3.7	2.9	2.6	2.1	4.7	0.3
26	0.1	0.1	0			1.1 E	2.8	1.1	1.3	1.7	4.4	0.3
27	0.1	0.1	0			1.0 E	1.8	0.5	1.8	2.2	4.1	0.2
28	0.1	1.2	0			1.0 E	1.7	0.3	1.1	2.6 E	3.8	0.2
29	0.1	0.5	0			0.9 E	1.1	0.5	1.5	2.7 E	3.9	0.8
30	0.1	0.2	0			0.8 E	1.9	0.4	1.5	2.9 E	5.3	0.6
31	0.1		0			0.7 E		0.8		2.9 E	3.7	
Mean	0.4	0.8	0.1	0	0	1.4	1.5	1.7	3.1	2.4	3.3	2.5
Ac-Ft	25	49	4	0	0	85	90	102	185	147	205	148

E — Estimated NR — No Record

Total Discharge in Acre-Feet 1040

TABLE 119

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER NEAR DOS PALOS

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5			0	34	0	12	12	12	12	12	0
2	12			0	20	0	7	12	12	12	4	8
3	12			0	12	0	0	12	8	12	0	12
4	12			4	12	0	0	8	0	12	0	4
5	12			20	12	0	0	8	8	4	0	0
6	12			36	12	0	0	12	12	0	0	0
7	12			38	12	0	0	12	9	8	0	0
8	4			41	12	0	0	9	0	8	0	0
9	0			43	12	0	4	0	0	4	0	0
10	0			49	12	5	12	0	6	0	8	0
11	8			49	12	12	12	0	8	0	12	0
12	12	N	N	49	12	12	12	4	12	8	9	0
13	4	O	O	47	12	12	12	0	8	12	0	0
14	0			45	12	12	8	7	12	12	0	0
15	0			45	12	12	0	12	12	12	8	0
16	0	F	F	43	12	12	0	12	12	11	4	8
17	0	L	L	51	5	4	0	4	6	1	0	12
18	0	O	O	53	0	5	0	4	0	4	0	7
19	0	W	W	51	0	12	0	0	6	4	0	0
20	0			51	0	7	4	0	12	0	0	0
21	0			51	0	4	12	6	12	8	0	0
22	8			51	0	8	12	0	12	9	0	0
23	12			47	0	0	12	0	12	0	0	0
24	4			51	0	0	4	0	12	0	8	0
25	0			58	0	0	0	0	7	8	12	0
26	0			24	0	0	36	0	4	12	12	0
27	0			0	0	0	45	8	12	6	4	0
28	0			0	0	5	0	12	12	0	0	0
29	0			20		12	0	12	12	0	0	0
30	0			45		7	4	12	12	8	0	0
31	0			36		5		12		12	0	
Mean	4	0	0	35	8	5	7	6	9	6	3	2
Ac-Ft.	256	0	0	2178	450	290	413	377	520	395	184	101

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5164

TABLE 120

DAILY MEAN DISCHARGE
PANOCHE DRAIN NEAR DOS PALOS

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						8.6		21	19	15	14	
2						6.8		a	20	14	20	
3						7.0	6.2 E	a	15	14	15	
4						5.8		a	16	15	13	
5						7.2		a	16	20	15	
6						7.2	6.7 E	a	15	18	15	
7						7.6	6.7	6.5 E	13	11	14	
8						6.8	6.7	8.6 E	13	16	13	17 E
9						7.2	7.2	8.6	11	9.4	14	
10						8.8	6.8	6.7	11	15	14	
11						6.1	11	6.2	14	15	15	
12						6.8	14	6.1	20	10	17	
13						7.5	13	5.5	15	8.7	15	
14						9.5	13	6.2		8.6	10	
15						9.5	14	7.8		9.3	9.9	
16						9.7	14	9.1		8.3	12	15 E
17						8.3	15	7.4		13	13	13
18						7.3	14	11		17	11	18
19						5.9	19	13	13 E	14	11	24
20						6.5	20	15		14	13 E	17
21						7.2	19	16		19		17
22						5.9	19	17		17		13
23						7.2	20	20		11		5.7
24						7.0	18	24		13		5.8
25						7.6	20	26	10	15		5.0
26					8.3	8.1	24	24	8.7	12	17 E	5.0
27					9.0	5.9	24	21	9.4	7.4		5.5
28					8.0	6.2	21	22	7.3	8.3		4.8
29						7.8	21	22	6.7	8.8		3.4
30						6.8 E	22	18	8.3	13		3.8
31						5.6 E		21		17		
Mean						7.3	14.0		13.0	13.1	14.9	13.7
Ac-Ft						447	833		776	807	914	815

E — Estimated NR — No Record
a - Not computed due to backwater conditions.

Total Discharge in Acre-Feet

TABLE 121

DAILY MEAN DISCHARGE
BIG CREEK DIVERSION NEAR FISH CAMP

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					4.2E	20	30	30	13	4.2E		
2					4.2E	22	31	34	13	4.2E		1.2E
3						25	32	31	13	4.2		
4						27	33	29	12	3.7		0.5E
5				2.1E	3.4E	28	32	28	12	2.8		0.5E
6						27	33	25	11	0.5E		0.5E
7					NR	28	33	24	10	0.5E		0.5E
8					NR	30	31	24	7.8	0.5E	1.5E	0.5E
9				2.4E	NR	31	31	24	7.4	0.5E		0.5E
10				191	NR	30	31	25	7.8	0.5E		0.5E
11				48	NR	32	31	25	7.1	0.5E		0.5E
12				72	NR	33	31	25	6.5	0.5E		0.5E
13				32	NR	33	30	25	6.5	0.5E		0.8E
14				14	NR	31	30	24	6.5	0.5E		0.7E
15				11	NR	31	23	22	6.1	0.5E		0.5E
16				10	NR	31	18	20	6.1	0.5E		0.5E
17				10	NR	31	18	20	5.8	0.5E		0.5E
18			3.3E	10	NR	31	18	19	5.8	0.5E		9.6E
19			3.3E	9.3	NR	32	17	18	5.3	0.7E		22 E
20			3.3E	8.9E	NR	30	18	18	5.0			10 E
21			3.3	8.5E	NR	30	18	17	4.5			7.4E
22			4.7	8.1	NR	28	18	17	4.5E			2.6E
23			3.7	7.8	NR	25	18	17	4.2E			0
24			3.7	8.1	NR	25	17	17	4.5E			0
25			3.7		NR	22	19	16	4.2E	1. E	1.2E	0
26			3.7		NR	26	20	16	4.5E			0
27			6.5		NR	24	19	15	4.2E			0
28				6.2E	20 E	23	19	15	4.2E			0
29					—	23	19	14	4.5E			0.4E
30			4.3E		—	24	18	15	4.2E			2.6E
31		—			—	25	—	14				—
Mean				16.4		27.7	24.5	21.4	7.0	1.5	1.4	2.2
Ac-Ft.				1014		1702	1460	1315	419	91	83	130

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 122

DAILY MEAN DISCHARGE
EAST FORK CHOWCHILLA RIVER NEAR AHWAHNEE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	1.5	3.4	4.3	5.9	34	12	12	3.1	0.2		0
2	1.5	1.5	3.4	4.3	5.9	35	12	15	2.8	0.1		0
3	1.5	1.7	3.4	4.3	5.9	35	11	12	2.6	0.1		0
4	1.4	1.7	3.4	4.3	5.5	34	10	14	2.6	0.1		0
5	1.4	1.7	3.4	4.7	5.5	30	10	11	2.3	0.1		0
6	1.4	1.9	3.1	21	5.5	28	10	9.3	2.1	0.1		0
7	1.4	1.9	3.1	14	6.3	25	10	8.7	1.9	0.1		0
8	1.5	1.9	3.1	8.7	17	24	9.8	7.7	1.9	0.1		0
9	1.7	1.9	3.1	26	12	23	9.3	7.2	1.9	0		0
10	1.7	2.1	3.4	66	70	21	9.3	6.7	1.7	0		0
11	1.7	2.8	3.4	36	217	21	9.3	6.3	1.7	0		0
12	1.5	3.1	3.1	16	55	19	8.7	6.3	1.5	0	N	0
13	1.2	3.1	3.1	17	31	19	8.7	5.9	1.4	0	O	0
14	1.2	3.1	3.1	10	24	18	7.7	6.3	1.1	0		0
15	1.2	3.4	3.1	8.7	29	16	7.7	6.3	1.1	0		0
16	1.2	3.7	3.1	8.2	428	14	7.7	5.9	0.9	0	F	0
17	1.2	3.4	2.8	7.7	139	14	7.2	5.5	0.8	0	L	0
18	1.2	3.4	2.8	7.2	140	14	6.7	5.1	0.7	0	O	0.3
19	1.2	3.4	2.8	6.7	116	13	6.7	5.1	0.6	0	W	28
20	1.4	3.7	2.8	6.3	74	12	6.7	5.1	0.6	0		7.2
21	1.5	3.7	2.8	6.3	56	12	6.3	4.7	0.5	0		3.1
22	1.7	3.7	3.1	5.9	48	11	5.9	4.0	0.3	0		1.9
23	1.5	3.7	3.4	5.9	39	13	5.9	4.3	0.3	0		1.4
24	1.4	3.4	3.4	5.5	35	19	5.9	4.3	0.2	0		1.1
25	1.5	3.4	3.4	6.3	32	14	6.7	4.3	0.2	0		0.9
26	1.7	3.4	3.4	11	31	14	58	4.0	0.2	0		0.8
27	1.9	3.4	4.0	7.7	32	18	28	3.7	0.2	0		0.7
28	1.9	3.4	5.5	7.2	34	14	14	3.7	0.2	0		0.7
29	1.7	3.4	4.7	7.2		14	12	3.4	0.2	0		0.7
30	1.7	3.4	4.3	6.3		13	10	3.4	0.2	0		0.7
31	1.5		4.3	6.3		14		3.1		0		
Mean	1.5	2.9	3.4	11.5	60.7	19.5	11.1	6.6	1.2	0.0	0	1.6
Ac-Ft	92	170	209	708	3371	1200	661	405	71	2	0	95

E — Estimated NR — No Record

Total Discharge in Acre-Feet 6984

TABLE 123

DAILY MEAN DISCHARGE
MIDDLE FORK CHOWCHILLA RIVER NEAR NIPINNAWASEE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.1	0.5	0.6	0.8	5.4	2.8	2.6	0.2			0
2	0	0.1	0.5	0.6	0.8	5.2	2.5	2.9	0.1			0
3	0	0.1	0.5	0.5	0.7	4.9	2.6	2.9	0.1			0
4	0	0.2	0.6	0.5	0.7	4.7	2.5	3.5	0.1			0
5	0	0.2	0.5	0.8	0.7	4.5	2.3	2.8	0			0
6	0	0.2	0.6	4.9	0.7	4.1	2.3	2.2	0			0
7	0	0.2	0.6	3.7	1.0	3.9	2.3	1.8	0			0
8	0	0.2	0.5	1.4	4.1	3.7	2.3	1.3	0			0
9	0	0.2	0.5	3.5	3.3	3.5	2.1	1.2	0			0
10	0	0.2	0.6	10	28	3.3	1.9	1.2	0			0
11	0	0.2	0.6	6.5	115	3.1	1.9	1.2	0			0
12	0	0.2	0.6	3.1	23	2.9	1.7	1.0	0	N	N	0
13	0	0.2	0.7	2.8	13	2.9	1.3	1.0	0	O	O	0
14	0	0.2	0.6	2.1	11	2.9	1.4	0.9	0			0
15	0	0.5	0.6	1.6	13	2.8	1.5	0.9	0			0
16	0	0.4	0.5	1.3	247	2.6	1.5	0.7	0	F	F	0
17	0	0.5	0.5	1.1	47	2.5	1.3	0.6	0	L	L	0
18	0	0.5	0.5	1.0	40	2.6	1.3	0.6	0	O	O	0
19	0	0.5	0.5	1.0	36	2.5	1.3	0.6	0	W	W	8.2
20	0.1	0.6	0.5	1.0	21	2.3	1.3	0.6	0			1.1
21	0.1	0.6	0.5	0.9	16	2.3	1.2	0.4	0			0.2
22	0.1	0.6	0.6	0.8	15	2.2	1.1	0.4	0			0.1
23	0.1	0.6	0.6	0.8	12	2.6	1.1	0.5	0			0
24	0.1	0.6	0.7	0.8	9.9	3.9	1.2	0.6	0			0
25	0.1	0.6	0.6	1.1	8.4	3.1	2.1	0.5	0			0
26	0.1	0.6	0.7	1.5	7.1	3.1	16	0.6	0			0
27	0.1	0.5	1.0	1.2	6.5	3.9	8.2	0.5	0			0
28	0.1	0.5	1.0	1.0	6.0	3.1	4.1	0.3	0			0
29	0.1	0.5	0.8	1.0		2.9	3.1	0.2	0			0
30	0.1	0.6	0.6	0.9		2.9	2.5	0.2	0			0
31	0.1		0.6	0.9		2.9		0.2				
Mean	0.0	0.4	0.6	1.9	24.6	3.3	2.6	1.1	0.0	0	0	0.3
Ac-Ft	2	22	37	117	1364	205	156	69	1	0	0	19

E — Estimated NR — No Record

Total Discharge in Acre-Feet 1992

TABLE 124

DAILY MEAN DISCHARGE
WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.1	0.8	0.8	1.1	6.6	3.8	4.9	0.6			0
2	0	0.1	0.8	0.8	1.0	5.9	3.6	5.1	0.5			0
3	0	0.1	0.4	0.8	0.8	5.7	3.5	4.1	0.4			0
4	0	0.1	0.5	0.8	1.0	5.7	3.3	4.6	0.4			0
5	0	0.1	0.5	1.3	1.0	4.9	3.2	3.6	0.3			0
6	0	0.1	0.5	7.4	0.9	4.8	3.2	3.2	0.3			0
7	0	0.1	0.6	2.8	1.1	4.8	3.2	2.9	0.2			0
8	0	0.1	0.5	1.6	6.9	4.4	3.1	2.6	0.2			0
9	0	0.1	0.6	5.1	3.4	4.3	3.1	2.3	0.2			0
10	0	0.2	0.6	34	124	3.9	2.9	2.1	0.2			0
11	0	0.5	0.8	9.9	161	3.9	2.8	2.0	0.2			0
12	0	0.6	0.5	3.5	41	3.8	2.8	1.8	0.1	N	N	0
13	0	0.6	0.6	2.9	22	3.9	2.8	1.6	0.1	O	O	0
14	0	0.6	0.6	2.1	13	3.8	2.7	1.7	0.1			0
15	0	0.8	0.6	1.8	13	3.8	2.6	1.7	0.1			0
16	0	0.8	0.6	1.8	424	3.5	2.7	1.5	0.1	F	F	0
17	0	0.7	0.6	1.7	78	3.5	2.6	1.4	0.1	L	L	0
18	0	0.8	0.7	1.4	67	3.2	2.6	1.3	0.1	O	O	0
19	0	0.8	0.6	1.4	56	3.1	2.3	1.2	0.1	W	W	32
20	0	0.8	0.6	1.4	36	3.1	2.5	1.1	0.1			1.6
21	0	0.8	0.6	1.3	26	3.2	2.5	1.0	0.1			0.3
22	0	0.8	0.7	1.0	22	3.1	2.3	0.9	0.1			0.1
23	0	0.8	0.7	1.3	15	3.8	2.3	0.9	0.1			0.1
24	0	0.8	0.7	1.3	12	5.1	2.3	1.0	0.1			0
25	0	0.8	0.7	1.7	10	2.9	5.7	1.0	0.1			0
26	0	0.8	0.7	2.7	9.1	4.3	47	1.0	0.1			0
27	0.1	0.8	1.3	1.6	8.3	5.1	13	0.8	0.1			0
28	0.1	0.7	1.2	1.5	7.3	4.1	6.4	0.8	0			0
29	0.1	0.8	1.0	1.3		3.8	4.9	0.7	0			0
30	0.1	0.8	0.8	1.2		3.9	4.1	0.7	0			0
31	0.1		0.8	1.1		3.9		0.6				
Mean	0.0	0.5	0.7	3.2	41.5	4.2	5.0	1.9	0.2	0	0	1.1
Ac-Ft.	1	32	42	197	2305	257	297	119	10	0	0	68

E — Estimated NR — No Record Total Discharge in Acre-Feet 3328

TABLE 125

DAILY MEAN DISCHARGE
STRIPED ROCK CREEK NEAR RAYMOND

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.2	0.4	0.3	2.8	1.0	1.0	0.1			0
2	0.1	0.2	0.2	0.4	0.3	2.8	1.0	0.8	0.1			0
3	0.1	0.2	0.2	0.4	0.3	2.6	0.8	0.6	0.1			0
4	0.1	0.2	0.3	0.4	0.3	2.3	0.7	0.6	0.1			0
5	0.1	0.2	0.3	0.6	0.3	2.1	0.7	0.5	0			0
6	0.1	0.2	0.4	1.7	0.3	2.1	0.7	0.4	0			0
7	0.1	0.2	0.4	0.6	0.5	1.9	0.6	0.3	0			0
8	0.1	0.2	0.4	0.4	2.1	1.7	0.6	0.2	0			0
9	0.1	0.2	0.4	1.7	1.0	1.5	0.6	0.2	0			0
10	0.1	0.2	0.4	2.6	21	1.5	0.4	0.2	0			0
11	0.1	0.2	0.4	1.0	45	1.4	0.4	0.2	0			0
12	0.1	0.2	0.3	0.6	18	1.4	0.4	0.2	0	N	N	0
13	0.1	0.2	0.4	0.6	9.0	1.4	0.4	0.2	0	O	O	0
14	0.1	0.3	0.3	0.5	4.9	1.4	0.3	0.2	0			0
15	0.1	0.4	0.3	0.4	5.4	1.2	0.3	0.2	0			0
16	0.1	0.3	0.3	0.4	48	1.1	0.3	0.1	0	F	F	0
17	0.1	0.3	0.3	0.4	14	1.1	0.3	0.1	0	L	L	0
18	0.1	0.3	0.3	0.4	14	1.0	0.2	0.1	0	O	O	0
19	0.1	0.3	0.4	0.4	12	1.0	0.2	0.1	0	W	W	3.2
20	0.1	0.3	0.4	0.4	9.0	1.0	0.2	0.1	0			0.1
21	0.1	0.3	0.4	0.4	7.3	1.0	0.2	0.1	0			0
22	0.1	0.3	0.4	0.4	6.8	1.0	0.2	0.1	0			0
23	0.1	0.2	0.4	0.4	5.4	1.1	0.2	0.1	0			0
24	0.1	0.2	0.4	0.3	5.0	1.2	0.1	0.1	0			0
25	0.1	0.2	0.4	0.4	4.0	1.0	1.1	0.1	0			0
26	0.1	0.2	0.4	0.4	4.0	1.2	12	0.1	0			0
27	0.1	0.2	0.6	0.4	3.7	1.2	3.1	0.1	0			0
28	0.1	0.2	0.4	0.4	3.4	1.1	1.4	0.1	0			0
29	0.1	0.2	0.4	0.4		1.1	1.1	0.1	0			0
30	0.1	0.2	0.4	0.3		1.1	0.7	0.1	0			0.1
31	0.1		0.4	0.3		1.1		0.1				
Mean	0.1	0.2	0.4	0.6	8.8	1.5	1.0	0.2	0.0	0	0	0.1
Ac-Ft.	6	14	22	36	489	90	60	15	1	0	0	7

E — Estimated NR — No Record Total Discharge in Acre-Feet 740

TABLE 126

DAILY MEAN DISCHARGE
MARIPOSA CREEK NEAR CATHAY

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	1.4	2.2	2.6	12	5.9	4.4	0.4			0
2		0	1.4	2.2	2.6	11	5.7	4.8	0.3			0
3		0	1.4	2.1	2.6	11	5.5	3.9	0.3			0
4		0	1.3	2.1	2.5	10	5.2	3.6	0.2			0
5		0	1.4	4.8	2.5	9.2	5.0	3.4	0.2			0
6		0.1	1.5	22	2.5	8.7	4.8	3.1	0.1			0
7		0.1	1.4	11	2.8	8.4	4.8	2.8	0.1			0
8		0.1	1.5	5.0	8.9	7.8	4.6	2.4	0.1			0
9		0.1	1.5	13	5.9	7.6	4.4	2.1	0.1			0
10		0.3	1.5	99	91	7.3	4.3	2.0	0			0
11		0.4	1.4	30	274	7.1	3.6	1.9	0			0
12	N	0.6	1.5	12	92	6.6	3.2	1.7	0	N	N	0
13	O	0.6	1.6	10	62	6.6	3.1	1.6	0	O	O	0
14		0.7	1.5	7.1	32	6.3	2.8	1.5	0			0
15		0.9	1.5	5.5	26	6.1	2.8	1.5	0			0
16	F	1.0	1.4	4.6	690	5.9	2.8	1.3	0	F	F	0
17	L	1.1	1.6	4.3	135	5.7	2.6	1.2	0	L	L	0
18	O	1.1	1.8	3.9	92	5.5	2.5	1.1	0	O	O	0
19	W	1.2	1.8	3.6	80	5.5	2.5	1.0	0	W	W	65
20		1.3	1.7	3.4	49	5.5	2.5	0.9	0			14
21		1.4	1.9	3.1	37	5.2	2.4	0.9	0			3.6
22		1.3	1.8	2.8	33	5.2	2.4	0.8	0			1.7
23		1.3	1.8	2.8	26	6.6	2.1	0.7	0			1.0
24		1.3	1.8	2.5	22	7.8	2.1	0.7	0			0.7
25		1.3	1.9	3.2	19	7.1	5.4	0.9	0			0.5
26		1.3	1.9	4.6	16	7.1	27	0.9	0			0.4
27		1.4	3.1	4.1	15	7.1	13	0.8	0			0.6
28		1.3	2.9	3.6	13	6.3	6.6	0.7	0			0.4
29		1.4	2.5	3.2		5.9	5.0	0.6	0			0.3
30		1.4	2.5	2.8		6.1	4.1	0.6	0			0.2
31			2.4	2.6		6.3		0.5				
Mean	0	0.8	1.8	9.1	65.6	7.2	5.0	1.8	0.1	0	0	2.9
Ac-Ft	0	46	108	562	3643	445	295	108	4	0	0	175

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5386

TABLE 127

DAILY MEAN DISCHARGE
MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	5	16	9	7				
2				0	5	15	8	6				
3				0	5	14	8	5				
4				0	5	14	8	5				
5				0	5	13	8	5				
6				0	5	13	8	5				
7				4	5	12	7	4				
8				18	5	12	6	4				
9				16	6	11	6	3				
10				23	10	11	6	3				
11				70	167	10	5	3				
12	N	N	N	24	184	10	5	2	N	N	N	N
13	O	O	O	15	94	10	5	2	O	O	O	O
14				12	45	10	4	2				
15				10	25	10	4	2				
16	F	F	F	9	169	10	4	2	F	F	F	F
17	L	L	L	8	442	9	3	2	L	L	L	L
18	O	O	O	7	226	9	3	1	O	O	O	O
19	W	W	W	7	117	9	3	1	W	W	W	W
20				6	72	9	3	1				
21				6	44	8	3	1				
22				6	36	8	2	0.9				
23				5	31	8	2	0.9				
24				5	24	8	2	0.8				
25				5	22	9	3	0.7				
26				5	20	10	8	0.6				
27				5	19	10	20	0.6				
28				6	18	10	15	0.4				
29				6		9	11	0.2				
30				6		9	8	0				
31				5		9		0				
Mean	0	0	0	9	65	10	6.2	2.3	0	0	0	0
Ac-Ft	0	0	0	573	3592	645	371	141	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5322

TABLE 128

DAILY MEAN DISCHARGE
OWENS CREEK BELOW OWENS RESERVOIR

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1	2	1	1	2	3	2	2				
2	1	2	1	1	2	3	2	2				
3	1	2	1	1	2	3	2	2				
4	1	2	1	1	2	3	2	1				
5	1	2	1	2	2	3	2	1				
6	1	1	1	9	2	3	2	1				
7	1	1	1	7	2	3	2	1				
8	1	1	1	4	3	3	2	1				
9	1	1	1	5	3	3	2	0.9				
10	1	1	1	17	3	3	2	0.8				
11	1	1	1	10	16	2	2	0.7				
12	1	1	1	5	50	2	1	0.7	N	N	N	N
13	1	1	1	4	17	2	1	0.6	O	O	O	O
14	1	1	1	4	6	2	1	0.5				
15	1	1	1	3	5	2	1	0.5				
16	1	1	1	3	36	2	1	0.4	F	F	F	F
17	2	1	1	3	23	2	1	0.3	L	L	L	L
18	2	1	1	3	18	2	0.9	0.2	O	O	O	O
19	2	1	1	3	18	2	0.9	0.1	W	W	W	W
20	2	1	1	3	9	2	0.8	0				
21	2	1	1	3	6	2	0.8	0				
22	2	1	1	2	6	2	0.8	0				
23	2	1	1	2	5	2	0.7	0				
24	2	1	1	2	5	2	0.7	0				
25	2	1	1	3	5	2	0.6	0				
26	2	1	1	3	4	3	3	0				
27	2	1	2	3	4	2	3	0				
28	2	1	2	3	4	3	2	0				
29	2	1	2	2		3	2	0				
30	2	1	1	2		3	2	0				
31	2		1	2		3		0				
Mean	1.5	1.2	1.1	3.7	9.3	2.5	1.5	0.5	0	0	0	0
Ac-Ft	91	69	67	230	516	153	92	33	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 1251

TABLE 129

DAILY MEAN DISCHARGE
BURNS CREEK AT HORNITOS

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0.1	1.4	2.1	0.7	0.6				
2				0.1	1.2	1.9	0.7	0.5				
3				0	1.2	1.7	0.6	0.6				
4				0	1.2	1.7	0.7	0.5				
5				0.4	1.2	1.5	0.5	0.4				
6				4.4	1.2	1.4	0.5	0.3				
7				2.1	1.4	1.4	0.5	0.3				
8				1.7	1.7	1.1	0.4	0.2				
9				3.0	1.5	0.9	0.3	0.2				
10				36	2.7	1.1	0.3	0.2				
11				6.1	46	0.9	0.3	0.1				
12				3.2	32	0.9	0.3	0.1	N	N	N	N
13				3.0	11	0.9	0.3	0.1	O	O	O	O
14				2.3	5.7	0.9	0.3	0.1				
15			0 E	1.9	5.4	0.9	0.2	0.1				
16			0	1.7	123	0.9	0.2	0	F	F	F	F
17			0	1.7	22	0.9	0.2	0	L	L	L	L
18			0	1.5	13	0.8	0.2	0	O	O	O	O
19			0	1.5	18	0.7	0.2	0	W	W	W	W
20			0	1.4	9.1	0.6	0.1	0				
21			0	1.4	6.9	0.7	0.1	0				
22			0	1.4	7.7	0.7	0.1	0				
23			0	1.2	5.4	0.8	0.1	0				
24			0	1.2	4.1	1.1	0.1	0				
25			0	1.9	3.5	0.8	0.3	0				
26			0.1	2.5	3.0	0.8	3.4	0				
27			0.1	1.7	3.0	0.8	1.4	0				
28			0.1	1.5	2.5	0.7	0.8	0				
29			0.1	1.5		0.7	0.7	0				
30			0.1	1.5		0.8	0.6	0				
31			0.1	1.4		0.8		0				
Mean				2.9	12.0	1.0	0.5	0.1	0	0	0	0
Ac-Ft				177	666	63	30	9	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 130

DAILY MEAN DISCHARGE
BEAR CREEK NEAR CATHAY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	1.8	5.2	1.3	1.1				0
2				0	1.6	4.5	1.2	1.1				0
3				0	1.6	4.1	1.2	1.0				0
4				0	1.5	3.9	1.1	0.9				0
5				0	1.5	3.5	1.0	0.7				0
6				0	1.5	3.3	0.9	0.7				0
7				0	1.6	3.0	0.9	0.6				0
8				0	2.2	3.0	0.7	0.5				0
9				0.8	2.5	2.5	0.7	0.4				0
10				63	17	2.3	0.7	0.4				0
11				16	194	2.2	0.6	0.2				0
12	N	N	N	6.5	159	2.2	0.6	0.1	N	N	N	0
13	O	O	O	5.5	57	2.1	0.4	0.	O	O	O	0
14				3.7	27	1.9	0.4	0				0
15				2.8	22	1.8	0.4	0				0
16	F	F	F	2.3	514	1.7	0.4	0	F	F	F	0
17	L	L	L	1.9	86	1.6	0.3	0	L	L	L	0
18	O	O	O	1.7	56	1.5	0.3	0	O	O	O	0
19	W	W	W	1.5	46	1.3	0.2	0	W	W	W	62
20				1.3	25	1.3	0.2	0				7.1
21				1.2	18	1.3	0.2	0				2.6
22				1.2	19	1.3	0.1	0				1.5
23				1.1	14	1.3	0.1	0				0.9
24				1.0	12	1.5	0.1	0				0.4
25				1.5	9.4	1.5	0.1	0				0.1
26				5.2	8.0	1.7	1.7	0				0
27				3.9	6.8	1.6	2.3	0				0
28				3.1	6.0	1.6	1.6	0				0
29				2.5		1.5	1.2	0				0
30				2.1		1.5	1.1	0				0
31				1.9		1.6		0				
Mean	0	0	0	4.2	46.8	2.2	0.7	0.2	0	0	0	2.5
Ac-Ft	0	0	0	261	2602	137	44	15	0	0	0	148

E — Estimated NR — No Record

Total Discharge in Acre-Feet 3207

TABLE 131

DAILY MEAN DISCHARGE
BEAR CREEK BELOW BEAR RESERVOIR

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	2	3	6	13	4	5				0
2		0	2	3	6	12	4	5				0
3		0	2	3	6	12	4	5				0
4		0	2	3	5	11	4	4				0
3		0	2	4	5	11	4	4				0
6		0	2	7	5	10	4	4				0
7		0	2	13	5	10	4	3				0
8		0	2	9	5	9	3	3				0
9		0	2	8	6	8	3.	2				0
10		0	2	26	6	7	3	2				0
11		0	2	85	187	6	3	2				0
12	N	0	2	23	299	6	3	2	N	N	N	0
13	O	0	2	15	171	5	2	1	O	O	O	0
14		0	2	13	60	5	2	1				0
15		1	2	11	36	5	2	1				0
16	F	1	2	9	435	4	2	1	F	F	F	0
17	L	1	2	8	392	4	2	0.8	L	L	L	0
18	O	1	2	8	99	4	2	0.8	O	O	O	0
19	W	1	2	7	92	4	2	0.5	W	W	W	0
20		1	2	6	56	4	2	0.5				0
21		1	2	6	37	4	2	0.4				5
22		1	2	6	31	4	2	0.4				8
23		1	2	6	30	4	2	0.3				7
24		1	3	6	24	4	2	0.3				6
25		2	3	6	20	4	2	0.2				5
26		2	3	7	17	4	4	0.2				5
27		2	4	7	15	4	9	0.2				4
28		2	4	9	14	4	8	0.1				4
29		2	4	9		4	6	0.1				4
30		2	4	8		4	6	0.1				4
31			4	7		4		0				
Mean	0	.7	2.4	11	74	6.3	3.4	1.6	0	0	0	1.7
Ac-Ft	0	44	149	676	4106	385	202	99.0	0	0	0	103

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5764

TABLE 132

DAILY MEAN DISCHARGE
BURNS CREEK BELOW BURNS RESERVOIR

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	0	4	0.6					
2				0	0	3	0.7					
3				0	0	3	0.7					
4				0	0	2	0.6					
5				0	0	2	0.5					
6				0	0	2	0.2					
7				0	0	2	0					
8				0	0	2	0					
9				0	0	2	0					
10				17	0	1	0					
11				2	4.4	1	0					
12	N	N	N	0.6	4.5	1	0	N	N	N	N	N
13	O	O	O	0.2	3.1	1	0	O	O	O	O	O
14				0.1	5	0.9	0					
15				0	4	0.8	0					
16	F	F	F	0	56	0.8	0	F	F	F	F	F
17	L	L	L	0	106	0.7	0	L	L	L	L	L
18	O	O	O	0	31	0.6	0	O	O	O	O	O
19	W	W	W	0	34	0.5	0	W	W	W	W	W
20				0	21	0.4	0					
21				0	10	0.4	0					
22				0	10	0.4	0					
23				0	8	0.5	0					
24				0	6	0.5	0					
25				0	5	0.4	0					
26				0	5	0.5	0					
27				0	4	0.4	0					
28				0	4	0.3	0					
29				0		0.3	0					
30				0		0.3	0					
31				0		0.6						
Mean	0	0	0	0.6	11	1.1	0.1	0	0	0	0	0
Acr-Ft	0	0	0	39	637	70	6.5	0	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 753

TABLE 133

DAILY MEAN DISCHARGE
NEWMAN WASTEWAY NEAR NEWMAN

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.9	3.4	2.0	3.2	1.6	3.5	4.3	5.0	6.3	3.8	10	30
2	4.4	3.9	1.9	3.3	1.6	3.8	5.7	5.7	6.2	4.1	8.9	11
3	4.1	3.9	2.0	3.0	1.6	2.7	5.0	5.6	6.6	4.3	8.5	8.3
4	3.6	3.4	1.9	3.4	1.6	3.3	4.9	4.6	6.9	4.9	8.7	8.3
5	3.6	3.2	2.0	4.3	1.6	3.0	6.0	4.2	6.1	4.6	9.3	8.4
6	3.6	3.2	2.0	5.8	1.6	3.0	4.6	3.9	5.6	5.2	20	7.1
7	4.6	3.4	1.9	6.2	1.6	3.1	3.6	4.2	5.2	4.8	9.6	6.0
8	5.2	3.0	1.9	4.8	2.3	2.8	4.5	4.5	5.2	4.7	7.1	6.0
9	4.6	2.8	1.9	4.5	2.1	2.6	5.5	3.8	5.1	4.4	7.3	8.9
10	5.2	2.4	1.9	5.2	2.8	2.1	5.2	5.8	5.4	5.7	7.4	18
11	5.2	2.6	1.9	5.6	2.8	2.6	4.8	4.7	6.9	5.1	7.6	8.1
12	4.6	2.6	1.7	5.3	2.6	2.4	4.4	6.5	8.9	4.5	30	6.2
13	4.4	2.6	2.0	4.1	2.3	2.2	4.4	6.9	8.9	4.6	30	7.0
14	4.1	2.6	1.9	3.8	2.1	2.0	6.9	6.5	9.3	5.1	11	9.1
15	4.1	2.2	1.7	3.5	2.8	2.0	7.3	4.0	6.3	6.6	11	14
16	4.6	2.2	1.7	3.6	5.7	2.5	8.5	3.7	5.5	8.4	8.1	28
17	4.6	2.4	1.9	3.6	13	2.3	11	3.6	7.0	8.5	6.5	15
18	4.1	2.4	1.9	3.7	6.1	2.3	8.0	3.6	8.1	6.6	7.0	12
19	3.6	2.2	1.9	2.8	3.7	2.3	7.2	3.0	7.2	6.3	6.6	13
20	3.9	2.2	1.9	1.9	2.9	3.4	7.2	3.2	6.4	6.4	10	9.3
21	3.6	2.4	2.0	2.1	5.8	4.6	6.7	4.4	6.3	5.4	12	6.8
22	3.4	2.8	2.2	2.1	13	5.2	7.1	5.0	5.2	5.5	9.2	26
23	3.9	2.6	2.2	2.1	6.3	5.2	7.9	4.3	6.2	5.6	7.1	10
24	3.9	2.4	2.2	1.6	3.9	3.6	6.6	4.2	5.8	6.1	6.7	6.0
25	3.6	2.2	2.4	1.9	3.3	3.3	6.2	4.2	5.4	5.5	7.6	4.9
26	3.6	2.2	2.8	1.6	3.1	4.2	6.2	4.5	5.7	5.6	7.6	4.9
27	3.4	2.0	2.8	2.1	2.8	4.8	5.8	4.4	7.6	6.1	7.6	4.5
28	3.2	2.2	2.4	1.6	3.1	4.4	5.1	4.4	6.0	6.2	9.0	4.2
29	3.2	2.0	3.0	1.9		4.1	5.0	6.4	4.2	6.7	10	4.1
30	3.2	2.0	3.0	1.6		3.8	4.0	5.3	3.5	6.8	12	3.8
31	3.6		2.8	1.4		3.7		4.6		8.2	18	
Mean	4.0	2.6	2.1	3.3	3.7	3.3	6.0	4.7	6.3	5.7	10.7	10.3
Acr-Ft	247	157	130	202	206	200	356	287	375	350	657	613

E — Estimated NR — No Record Total Discharge in Acre-Feet 3780

TABLE 134

DAILY MEAN DISCHARGE
NORTH FORK MERCED RIVER NEAR COULTERVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				1.0	2.0	11	3.3	3.7	0.9	0.3	0.2	0.2
2				1.0	1.7	9.4	3.3	3.3	0.9	0.3	0.1	0
3				0.9	1.7	8.8	3.3	3.3	0.9	0.3	0.2	0.2
4				0.9	1.7	8.2	3.0	2.6	0.7	0.3	0.2	0.2
5				2.3	1.5	7.6	3.0	2.3	0.7	0.3	0.3	0.2
6				9.4	1.7	6.5	3.0	2.6	0.7	0.3	0.3	0.2
7				2.6	2.6	6.0	3.0	2.3	0.7	0.3	0.4	0.2
8				1.5	3.7	5.0	2.6	2.0	0.7	0.2	0.3	0.2
9				18	3.3	5.0	2.6	2.0	0.7	0.3	0.3	0.2
10				37	10	5.0	2.6	1.7	0.7	0.3	0.3	0.1
11				12	31	4.5	2.6	1.7	0.5	0.3	0.3	0.1
12				8.2	19	4.1	2.6	1.7	0.4	0.3	0.3	0.1
13				7.0	12	4.1	2.6	1.7	0.4	0.3	0.2	0.1
14				5.0	11	4.1	2.3	1.7	0.3	0.3	0.2	0.1
15				4.1	16	3.7	2.3	1.5	0.3	0.3	0.2	0.1
16				3.3	467	3.7	2.3	1.5	0.4	0.3	0.2	0.1
17			0.5 E	2.6	104	3.3	2.3	1.3	0.4	0.3	0.2	0.1
18			0.5	2.6	83	3.3	2.3	1.3	0.4	0.3	0.2	7.1
19			0.5	2.3	62	3.7	2.3	1.3	0.4	0.2	0.2	13
20			0.5	2.0	40	3.3	2.0	1.3	0.4	0.2	0.3	2.6
21			0.5	2.0	28	3.3	2.0	1.3	0.3	0.3	0.3	1.3
22			0.7	1.7	23	3.3	2.0	1.3	0.3	0.3	0.3	1.0
23			0.9	1.7	18	6.0	2.0	1.0	0.3	0.4	0.3	0.9
24			0.9	1.7	15	5.5	2.0	1.3	0.3	0.4	0.1	0.5
25			1.0	3.3	15	4.1	2.6	1.3	0.3	0.4	0	0.5
26			1.0	3.0	13	4.5	12	1.0	0.3	0.4	0.1	0.4
27			3.0	2.3	12	4.1	5.5	1.0	0.3	0.2	0.1	0.4
28			1.3	2.3	11	3.3	3.7	1.0	0.3	0.3	0.2	0.4
29			1.0	2.0		3.3	3.0	1.0	0.3	0.3	0.3	0.4
30			1.0	2.0		3.7	2.6	0.9	0.3	0.3	0.3	0.4
31			1.0	2.0		3.7		0.9		0.2	0.2	
Mean				4.8	36.1	5.0	3.0	1.7	0.5	0.3	0.2	1.0
Ac-Ft				293	2003	308	180	105	29	18	14	62

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 135

DAILY MEAN DISCHARGE
MAXWELL CREEK AT COULTERVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0.6	0.8	1.9	0.8	0.7	0.1			0
2				0.6	0.7	1.8	0.8	0.7	0.1			0
3				0.6	0.8	1.6	0.7	0.7	0.1			0
4				0.7	0.9	1.6	0.5	0.7	0.1			0
5				3.2	0.9	1.4	0.5	0.6	0.1			0
6				7.4	0.9	1.3	0.5	0.5	0.1			0
7				2.4	1.1	1.3	0.5	0.5	0.1			0
8				1.8	1.6	1.0	0.5	0.3	0.1			0
9				7.4	1.5	1.0	0.4	0.3	0.1			0
10			NR	46	3.2	0.9	0.4	0.3	0.1			0
11			NR	5.5	30	0.9	0.4	0.3	0.1			0
12			NR	3.6	25	0.8	0.3	0.2	0.1	N	N	0
13			NR	2.8	11	0.7	0.3	0.2	0.1	O	O	0
14			NR	2.2	7.1	0.7	0.3	0.3	0.1			0
15			NR	1.6	20	0.7	0.4	0.3	0.1			0
16			NR	1.6	181	0.7	0.4	0.2	0.1	F	F	0
17			NR	1.3	30	0.7	0.4	0.2	0.1	L	L	0
18			NR	1.0	20	0.7	0.4	0.2	0.1	O	O	2.0
19			NR	1.0	12	0.7	0.4	0.2	0.1	W	W	26
20			NR	0.9	7.4	0.7	0.3	0.2	0			2.2
21			NR	0.8	5.5	0.6	0.3	0.2	0			0.7
22			NR	0.7	4.9	0.7	0.3	0.2	0			0.5
23			0.3 E	0.5	3.9	1.4	0.2	0.2	0			0.3
24			0.3	0.5	3.2	1.4	0.2	0.2	0			0.2
25			0.3	1.0	3.0	1.0	0.2	0.2	0			0.2
26			0.4	1.0	2.6	1.0	3.7	0.2	0			0.2
27			1.0	0.7	2.2	0.9	1.5	0.2	0			0.3
28			0.8	0.7	2.1	0.9	0.9	0.1	0			0.3
29			0.6	0.7		0.8	0.8	0.1	0			0.3
30			0.6	0.7		0.9	0.6	0.1	0			0.3
31			0.6	0.7		0.9		0.1				
Mean				3.2	13.7	1.0	0.6	0.3	0.1	0	0	1.1
Ac-Ft				199	760	63	36	19	4	0	0	66

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 136

DAILY MEAN DISCHARGE
MERCED RIVER BELOW SNELLING

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			25	32	21	31	79	34	58	62	59	28
2			59	27	22	31	68	19	62	59	60	25
3			161	27	21	31	53	19	67	69	59	35
4			147	27	21	30	50	19	66	57	59	43
5			20	36	22	30	48	12	61	51	62	41
6			13	39	23	30	47	10	50	60	62	39
7			16	29	23	29	47	11	47	53	63	38
8			18	28	23	29	45	25	44	52	68	47
9			19	34	23	30	39	61	51	59	71	33
10			31	64	34	31	32	57	60	66	63	9.9
11			50	44	60	87	27	59	62	63	73	6.0
12			48	38	54	63	25	54	59	64	67	3.7
13			61	29	41	74	25	46	69	67	73	2.1
14			64	25	37	68	19	56	70	67	76	1.7
15			55	24	38	55	19	75	58	64	77	1.6
16			52	22	68	54	16	62	60	66	73	1.6
17			50	22	61	54	16	61	61	64	75	2.2
18			48	23	44	52	13	63	61	64	64	4.3
19			50	23	48	53	11	64	53	68	67	8.8
20			50	22	49	52	19	66	64	71	68	6.9
21			50	25	44	49	47	64	45	71	75	4.5
22			50	27	46	50	63	63	56	69	66	3.5
23			50	28	44	140	59	63	64	66	49	3.3
24			51	27	42	147	59	67	56	66	44	3.3
25		18 E	55	31	40	109	53	74	60	62	11	3.1
26		22	55	30	38	89	54	71	70	71	6.0	2.9
27		23	60	29	34	92	50	63	62	67	56	2.6
28		25	56	29	31	92	48	67	57	64	38	2.6
29		25	56	29		96	48	74	55	62	23	2.2
30		26	58	29		86	47	66	58	63	29	2.1
31			57	25		82		60		60	27	
Mean			52.7	29.8	37.6	62.8	40.9	51.8	58.9	63.5	56.9	13.6
Ac-Ft			3243	1833	2087	3860	2432	3184	3503	3902	3497	809

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 137

DAILY MEAN DISCHARGE
MERCED RIVER AT CRESSEY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	116	72	89	144	115	120	146	96	70	40	52	57
2	116	72	89	132	110	118	144	97	68	45	58	52
3	123	70	104	118	107	113	123	90	60	51	67	50
4	120	69	215	112	107	107	110	82	62	66	61	48
5	113	68	228	121	106	106	103	78	68	67	51	48
6	112	68	137	146	100	104	99	78	66	55	60	48
7	104	68	110	153	100	104	96	73	57	47	55	56
8	110	68	100	131	100	103	89	68	49	49	63	44
9	113	68	97	131	100	109	87	63	43	43	63	42
10	116	68	94	158	104	107	82	63	41	34	58	47
11	118	67	94	272	118	106	75	69	40	33	55	49
12	123	68	113	215	204	134	67	73	40	41	50	49
13	128	69	123	173	205	142	63	67	39	36	49	47
14	144	68	129	155	158	139	66	68	40	41	47	45
15	137	72	137	141	141	139	67	70	56	41	55	47
16	146	69	134	131	151	120	69	82	58	41	66	50
17	131	70	131	126	397	121	61	96	47	39	62	51
18	109	70	131	123	234	126	54	97	41	43	51	60
19	100	72	129	121	201	124	53	89	40	51	53	82
20	90	73	131	120	171	124	51	89	41	47	58	87
21	85	75	134	116	173	124	48	86	52	41	68	75
22	82	77	136	116	163	123	48	87	49	44	75	70
23	81	78	136	116	156	126	58	85	41	47	82	67
24	79	81	134	118	149	191	74	91	41	52	73	64
25	79	81	136	121	142	217	78	94	42	50	64	63
26	78	82	137	121	134	186	89	79	41	48	62	62
27	77	81	148	121	129	162	99	82	52	48	55	61
28	77	85	151	118	126	160	100	79	60	52	56	58
29	75	93	146	116		162	93	73	52	55	56	57
30	75	89	144	115		163	91	83	47	56	61	58
31	74		144	115		158		81		52	60	
Mean	104	73.7	131	136	150	133	82.7	80.9	50.1	46.9	59.5	56.5
Ac-Ft	6409	4386	8055	8362	8333	8208	4925	4975	2981	2886	3662	3360

E — Estimated NR — No Record Total Discharge in Acre-Feet 66540

TABLE 138

DAILY MEAN DISCHARGE
ORESTIMBA CREEK NEAR CROWS LANDING

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	0			0	12	1.9	1.3 E	3.2	9.7	16	0.9
2	0.4	0			25	6.6	2.4	3.3 E	2.4	5.6	29	1.8
3	3.0	0			42	2.7	2.4	1.8 E	3.5	4.4	8.5	1.9
4	1.8	0			1.9	0.5	2.1	2.9 E	3.6	5.1	4.7	2.4
5	1.6	0			1.0	0	3.9	7.3 E	3.0	3.9	4.1	1.7
6	0.5	0			1.5	0	3.5	4.0 E	2.5	3.7	4.3	0.3
7	0.5	0			15	0	4.9	3.4 E	2.3	5.5	6.6	3.1
8	0.7	0			7.3	0	6.7	4.2 E	2.4	5.3	7.6	6.4
9	1.8	0			6.7	0	7.6	3.4 E	2.2	2.8	4.1	0.2
10	2.2	0			10	0	6.4	2.5 E	2.0	6.3	5.8	0.3
11	2.6	0			88	0	3.8	2.3 E	2.0	8.0	6.4	0.3
12	2.1	1.7	N	N	1060 E	0	5.0	3.5 E	2.9	4.8	5.1	1.2
13	0.5	0.1	O	O	1120 E	0	2.9	1.8 E	3.1	6.4	6.0	0
14	0.3	0			868 E	0	2.5	2.1 E	3.5	5.1	5.5	0
15	1.8	0			697 E	0	2.7	1.4 E	4.3	5.9	11	0.3
16	1.6	0	F	F	1500 E	0.5	3.7	1.4	4.8	5.9	3.5	0
17	0.1	0	L	L	387	35	4.3	2.2	5.0	6.5	2.7	0.6
18	0.6	0	O	O	466	15	2.6	1.5	2.7	8.3	4.8	26
19	0.8	0	W	W	224	4.8	3.0	0.8	2.5	9.3	5.0	122
20	0	0			108	1.0	4.4	1.0	4.5	6.3	4.6	90
21	0	0			686	1.7	4.2	1.1	5.4	3.9	4.3	23
22	1.1	0			417	2.8	4.4	1.3	5.4	4.6	4.3	6.8
23	5.5	0			182	2.6	4.7	3.0	3.4	4.7	3.8	7.8
24	20	0			107	1.4	3.8	3.4	3.6	9.1	17	5.5
25	0.9	0			71	0.9	4.0	3.2	3.8	5.7	7.1	0.1
26	0.2	0			43	1.2	5.7	6.6	7.3	5.0	5.5	0
27	0	0			29	1.5	16	5.3	7.6	5.2	3.9	0
28	0	0			19	0.2	7.5	2.3	24	8.0	11	0
29	0	0				0.9	2.9	5.5	14	10	6.8	0
30	0	0				1.4	3.3	2.5	13	9.7	2.9	0
31	0					1.1		2.3		10	1.5	
Mean	1.7	0.1	0	0	292	3.0	4.4	2.9	5.0	6.3	6.9	10.1
Ac-Ft.	102	4	0	0	16230	186	264	176	297	386	423	600

E — Estimated NR — No Record Total Discharge in Acre-Feet 18670

TABLE 139

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER AT GRAYSON

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	850	680	655	560	735	1120	725	750	500 E	280	95	255
2	785	675	660	570	720	1050	625	770	505 E	255	115	265
3	825	650	640	560	740	990	600	745	440 E	240	150	275
4	870	650	600	545	705	940	525	685	380 E	290	170	280
5	880	655	580	555	660	880	520	635	350 E	345	175	275
6	920	660	595	615	645	835	540	565	320 E	335	185	275
7	900	665	610	605	620	780	505	510	320 E	295	205	315
8	865	635	585	590	625	760	490	510	355 E	255	190	315
9	935	650	580	620	625	715	490	485	365 E	230	200	296
10	860	655	555	685	635	670	440	485	365	215	240	271
11	790	650	540	695	695	650	445	515	365	185	225	240
12	790	650	525	715	795	665	435	455	335	205	195	235
13	790	655	520	805	820	630	460	430	335	200	175	240
14	810	665	515	875	835	610	435	455	370	175	210	265
15	815	660	510	1015	980	585	430	465 E	370	160	200	280
16	860	660	470	1110	1495	570	405	440 E	295	165	220	270
17	935	675	460	1105	2120	625	405	465 E	295	175	255	300
18	900	690	455	1050	1575	585	410	535 E	280	165	245	360
19	880	705	455	1000	1790	510	360	535 E	265	150	200	550
20	850	710	450	955	1810	500	365	475 E	270	165	180	600
21	815	700	450	920	1970	455	350	490 E	295	175	175	610
22	840	675	465	890	2445	465	320	505 E	320	160	230	620
23	860	655	475	860	1975	520	295	500 E	320	140	325	635
24	830	635	485	850	1775	585	310	495 E	230	170	300	635
25	790	650	490	835	1585	625	325	500 E	230	195	295	590
26	795	670	495	820	1390	670	535	465 E	230	180	285	515
27	785	675	505	810	1290	680	790	440 E	230	195	285	470
28	765	660	515	800	1195	680	960	460 E	280	190	250	485
29	735	650	505	780		715	1015	440 E	335	155	295	450
30	715	655	555	790		810	860	440 E	335	125	320	440
31	710		560	770		820		460 E		110	290	
Mean	831	664	531	786	1188	700	512	519	329	203	222	387
Ac-Ft.	51074	39511	32648	48307	65950	43031	30486	31944	19607	12456	13646	23032

E — Estimated NR — No Record Total Discharge in Acre-Feet 411700

TABLE 140

DAILY MEAN DISCHARGE
DEL PUERTO CREEK NEAR GRAYSON

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							5.2	11	7.6 E	13	14	12
2							5.4	11	7.6 E	15	16	13
3							7.9	8.1	7.6 E	8.6	17	16
4							8.0	5.9	7.5 E	7.8	16 E	13
5							9.4	5.4	7.5 E	13	15 E	9.2
6							6.4	10	7.5 E	19	14 E	9.5
7							11	8.1	7.5 E	16	14	6.3
8							10	8.6	7.4 E	12	14	4.6
9							11	7.3	7.4 E	13	15	14
10							9.2	9.2	7.4 E	17	12	13
11							12	4.6	7.3 E	17	15	13
12							15	4.1	6.8 E	16	14	12
13							14	3.5	7.6	18	11	13
14							14	5.0	9.5	19 E	12	13
15							12	8.4	9.2	17 E	15	12
16							13	6.6	17	17 E	15	7.3
17							11	7.8	20	17 E	13	8.9
18							9.5	4.0	23	14	13	11 E
19							12 E	3.0	16	13	15	17 E
20							13 E	6.7	17	13	12	0.9 E
21							12 E	7.2	14	13	11	0.3 E
22							12 E	8.2	9.6	13	9.6	0.2 E
23							11 E	11	12	19	9.5	0.3 E
24						4.6 E	11 E	14	10	22	7.6	0.2 E
25						6.8	10 E	12	13	20	15	0.2 E
26						7.8	10 E	5.4	16	20	13	0.1
27						7.8	9.8 E	4.4	15	25	11	0.4
28						7.3	9.5 E	4.7	16	26	15	0.5
29						7.6	9.2 E	8.0	16	16	15	0.9
30						5.4	8.6 E	9.6	18	16	15	2.5
31						4.8		9.6		17	11	
Mean							10.4	7.5	11.6	16.2	13.4	7.5
Ac-Ft							619	461	690	996	823	445

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 141

DAILY MEAN DISCHARGE
WESTLEY WASTEWAY NEAR GRAYSON

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.0	0	0	2.3	0.3	0.4	9.7	9.0	8.8	15	23	8.5
2	4.4	0	0	2.3	0.2	0.4	10	10	9.3	17	27	13
3	4.0	0	0	3.7	0.1	0.2	9.8	9.4	9.8	20	25	11
4	3.0	0	0	4.5	0	0	8.4	6.6	9.3	23	18	7.1
5	1.5	0	0	3.0	0	0	9.4	6.1	11	22	20	2.3
6	0.8	0	0	2.0	0	0.5	9.9	5.6	9.8	21	13	3.3
7	0.8	0	0	1.1	0.1	0.2	13	6.0	9.8	24	16	3.7
8	1.9	0	0	0	0	0.2	15	5.5	9.8	22	22	4.8
9	1.9	0	0	0	0	0.2	18	7.2	9.3	23	20	6.9
10	0.5	0	0	0	0.8	1.1	18	9.0	6.9	25	19	9.3
11	0	0	0	0	0.3	3.3	16	8.0	6.5	23	19	7.8
12	0.8	0	0	0	0.2	4.4	17	5.8	6.9	19	19	6.5
13	1.9	0	0	0	0.2	5.2	17	4.9	8.3	20	20	6.1
14	1.9	0	0	0	0.2	6.5	18	4.9	8.8	25	18	4.4
15	3.3	0	0	0	1.6	4.4	18	4.8	10	19	15	6.1
16	3.7	0	3.0	0	6.3	4.4	18	5.6	9.3	18	13	4.0
17	2.6	0	2.2	0	0.3	7.4	16	4.4	9.8	21	11	17
18	2.2	0	1.5	0	0.2	7.8	17	2.6	9.8	22	9.0	6.9
19	1.9 E	0.2	2.2	0	0.2	11	17	5.6	9.8	22	10	0.5
20	1.1 E	0	1.9	0	1.6	8.4	16	8.3	9.8	19	13	0
21	0.5 E	0	2.6	0	12	7.9	15	10	11	20	16	0.1
22	0.3 E	0	1.9	0	0.6	10	16	9.8	13	15	13	0
23	0 E	0 E	0	0	0.4	12	15 E	6.1	17	16	17	0.5
24	0 E	0 E	0	0	0.2	9.5	14 E	4.4	11	18	15	0.1
25	0 E	0 E	0	0	0	5.0	12 E	2.9	12	25	14	0
26	0 E	0	0	0	0	4.2	9.8 E	3.3	11	21	17	0
27	0 E	0	0	0	0	3.9	8.3 E	4.8	11	20	20	0.2
28	0 E	0	0	0	0.4	4.3	6.9 E	5.2	16	18	17	0.9
29	0	0	0	0		3.9	5.5 E	5.2	14	19	14	2.0
30	0	0	1.5	1.0		4.3	5.5 E	6.5	29	21	25	2.0
31	0		1.9	0.3		6.9		8.8		26	21	
Mean	1.4	0.0	0.6	0.7	0.9	4.4	13.3	6.3	10.9	20.6	17.4	4.5
Ac-Ft	85	0	37	40	52	274	792	389	650	1267	1069	268

E — Estimated NR — No Record Total Discharge in Acre-Feet 4923

TABLE 142

DAILY MEAN DISCHARGE
TUOLUMNE RIVER AT LA GRANGE BRIDGE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	541	2320	2630	421	466	428	14	6.1	2.1	2.8	4.5	2.1
2	546	2240	2520	544	857	803	13	5.5	2.5	2.8	3.6	2.1
3	546	2280	1870	552	745	847	14	4.5	2.5	5.0	3.6	2.5
4	546	2330	1960	394	766	510	13	6.6	3.6	3.6	4.5	2.5
5	541	2340	1970	883	745	500	13	6.1	3.6	2.8	4.1	1.8
6	462	2320	1500	557	741	705	15	5.5	3.2	2.5	5.0	1.5
7	541	2370	1440	816	685	470	14	5.0	2.8	2.8	21	1.5
8	536	2320	1450	881	474	461	14	5.5	2.8	2.8	4.5	8.0
9	546	2310	1450	755	1120	635	13	67	2.8	3.6	48	8.5
10	546	2270	1450	572	1050	589	14	5.5	2.5	3.6	4.5	3.2
11	541	2390	1470	335	1040	686	13	5.5	2.5	3.6	2.5	2.1
12	481	2400	1470	724	551	618	12	13	2.5	3.2	5.5	1.8
13	463	2400	1290	815	500	574	11	8.5	2.8	3.2	2.5	1.5
14	482	2400	977	902	500	260	12	6.1	2.1	3.6	2.5	0.6
15	536	2420	1140	1040	492	18	12	5.5	2.1	3.6	2.1	0.2
16	493	2430	977	970	754	16	12	5.0	2.5	3.6	2.1	0.1
17	483	2440	944	869	1000	19	12	5.0	2.5	4.1	5.0	0.2
18	471	2460	939	533	1440	20	12	5.0	2.8	6.6	2.5	2.8
19	411	2500	967	1020	2480	17	12	5.5	2.8	4.5	2.5	6.1
20	1040	2530	842	902	2440	15	12	5.5	2.8	3.6	2.1	4.1
21	2290	2530	865	895	2460	18	12	5.5	2.8	3.6	1.8	1.8
22	2370	2480	918	907	2460	14	12	5.5	2.5	3.6	2.1	1.3
23	2370	2450	882	782	2440	14	12	5.5	2.8	4.1	2.1	1.3
24	2350	2500	868	667	2300	14	13	5.5	2.8	4.1	2.5	1.5
25	2350	2580	873	418	1200	23	13	5.5	2.8	4.1	3.6	2.5
26	2300	2580	866	836	1220	14	11	4.5	2.8	3.6	2.8	4.1
27	2290	2540	880	687	1140	18	6.6	2.8	3.2	3.6	2.8	3.2
28	2290	2530	883	578	724	14	5.5	2.5	2.8	4.1	2.8	2.5
29	2290	2620	990	733		14	4.5	2.5	2.8	4.5	2.5	4.5
30	2330	2620	986	725		13	4.5	2.5	2.8	4.5	2.1	14
31	2320		1030	557		15		2.1		5.0	1.8	
Mean	1171	2430	1268	718	1171	270	11.7	7.3	2.7	3.8	5.1	3.0
Ac-Ft	72010	144600	77950	44170	65040	16590	696	449	162	231	316	178

E — Estimated NR — No Record

Total Discharge in Acre-Feet 422400

TABLE 143

DAILY MEAN DISCHARGE
TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	623	2320	2550	688	615	852	56	45	39	33	33	28
2	617	2280	2450	429	716	729	56	45	34	34	32	28
3	605	2270	2060	653	865	1020	56	47	34	34	29	29
4	605	2340	1930	332	884	869	52	47	34	36	30	28
5	605	2360	1930	708	859	659	52	47	34	34	30	28
6	533	2350	1520	739	888	801	49	47	33	36	30	30
7	605	2370	1440	681	819	714	47	47	32	34	29	29
8	593	2350	1440	864	740	617	54	44	30	33	37	32
9	605	2330	1430	799	1000	672	54	85	30	32	36	33
10	611	2300	1430	757	1190	715	52	70	30	32	58	34
11	605	2410	1420	414	1210	798	52	52	30	33	42	37
12	543	2420	1440	562	928	768	51	44	32	33	33	36
13	528	2410	1350	815	690	713	49	45	33	34	32	36
14	541	2400	967	864	665	592	49	51	33	32	36	34
15	587	2430	1090	956	672	122	49	47	32	32	32	32
16	547	2430	948	970	865	83	44	47	33	30	30	33
17	544	2450	898	847	1080	72	44	45	33	29	29	34
18	519	2500	898	699	1530	76	47	41	33	28	28	52
19	471	2500	922	857	2640	70	47	41	30	32	29	62
20	787	2510	835	921	2630	68	49	44	32	30	32	56
21	2100	2520	828	926	2640	66	51	44	32	30	34	47
22	2330	2480	838	947	2630	64	49	42	34	32	34	45
23	2330	2450	871	878	2610	64	49	41	34	30	33	42
24	2330	2480	842	796	2550	64	47	44	33	29	36	42
25	2330	2550	841	643	1420	62	49	44	36	28	30	41
26	2290	2540	837	671	1440	70	64	41	34	30	28	41
27	2290	2500	846	807	1380	60	60	41	34	30	28	39
28	2320	2490	840	769	1010	64	51	39	32	29	30	39
29	2240	2560	949	686		60	49	39	33	28	32	39
30	2330	2560	951	809		62	47	37	34	29	32	37
31	2330		995	793		58		37		30	28	
Mean	1190	2429	1245	751	1327	378	50.8	46.1	32.9	31.5	32.6	37.4
Ac-Ft	73180	144500	76540	46180	73720	23220	3025	2836	1958	1936	2007	2227

E — Estimated NR — No Record

Total Discharge in Acre-Feet 451300

TABLE 144

DAILY MEAN DISCHARGE
TUOLUMNE RIVER AT HICKMAN BRIDGE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	724	2120 E	2610	995	698	1010	127	115	103	94	94	87
2	724	2080 E	2520	385	636	678	127	115	99	94	94	87
3	724	2080 E	2210	796	966	1090	127	113	96	94	94	85
4	729	2130 E	2070	437	939	1020	125	113	99	98	92	87
5	739	2150 E	2070	577	900	693	123	113	98	98	92	85
6	645	2450	1700	1020	933	797	123	113	96	96	92	85
7	729	2470	1580	674	898	755	123	113	96	98	90	84
8	724	2450	1530	904	864	640	123	111	96	96	92	84
9	739	2440	1560	968	824	649	127	125	94	94	96	84
10	739	2410	1570	901	1240	765	121	144	96	94	103	85
11	734	2510	1580	538	1270	792	121	119	96	94	105	89
12	664	2510	1580	479	1130	808	121	113	98	94	96	89
13	649	2520	1550	960	749	749	117	113	94	94	92	90
14	669	2510	1130	923	709	693	117	117	94	94	92	89
15	739	2520	1230	1020	724	226	117	115	94	94	94	89
16	693	2530	1120	1050	835	160	113	113	96	92	92	89
17	689 E	2550	1060	1020	1030	144	109	113	98	90	90	92
18	664 E	2580	1050	865	1520	142	113	111	98	92	90	121
19	616 E	2580	1070	811	2600	140	115	109	98	94	90	133
20	829 E	2590	1030	1020	2640	137	117	109	96	94	90	133
21	1960 E	2600	926	1010	2670	133	117	111	96	94	89	127
22	2150 E	2560	947	991	2630	135	115	109	98	94	89	119
23	2140 E	2540	1000	1010	2600	146	115	107	98	94	87	107
24	2140 E	2560	957	866	2630	144	115	107	96	94	90	107
25	2140 E	2630	946	760	1580	131	119	109	96	94	89	109
26	2110 E	2620	942	628	1520	135	131	107	98	92	87	107
27	2100 E	2590	960	932	1480	131	127	107	98	94	87	109
28	2130 E	2560	951	829	1160	129	123	109	98	94	89	107
29	2060 E	2620	1000	714		129	119	107	96	92	89	109
30	2130 E	2600	1060	876		133	117	105	92	90	90	109
31	2130 E		1100	870		127		105		92	87	
Mean	1205	2469	1374	833	1371	437	120	113	96.7	93.9	91.7	99.2
Ac-Ft	74090	146900	84520	51230	76120	26900	7149	6922	5754	5776	5639	5905

E — Estimated NR — No Record

Total Discharge in Acre-Feet 496900

TABLE 145

DAILY MEAN DISCHARGE
DRY CREEK NEAR MODESTO

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	119	41	25	25	33	56	40	65	75	39	41	44
2	108	39	25	24	32	48	39	81	65	38	41	38
3	126	39	26	25	32	43	39	78	62	39	42	30
4	127	39	26	24	32	38	36	75	65	41	46	26
5	122	40	26	25	30	36	45	70	63	42	39	30
6	124	38	27	31	29	32	53	78	65	42	44	34
7	126	35	26	59	30	30	54	69	57	39	40	41
8	128	34	25	69	29	29	53	63	52	38	36	34
9	122	33	24	72	27	27	70	67	55	39	39	34
10	119	32	25	80	32	27	70	65	61	39	37	38
11	123	29	25	796	121	27	84	73	55	37	38	42
12	124	31	27	224	399	27	87	73	55	42	39	42
13	123	32	27	125	270	31	85	67	49	40	34	38
14	165	31	26	128	152	34	73	74	49	36	38	36
15	178	31	24	100	98	30	57	72	48	32	39	45
16	136	29	25	75	315	34	43	65	50	38	40	40
17	81	27	23	63	1210	52	54	69	49	38	45	41
18	65	27	25	55	576	48	62	80	49	38	39	63
19	66	27	25	50	659	49	60	71	50	38	41	251
20	62	23	25	47	317	63	74	67	55	36	48	270
21	75	28	24	45	217	65	67	70	44	34	49	110
22	86	28	25	42	309	77	64	66	36	35	46	59
23	92	27	25	42	212	75	67	69	35	44	45	46
24	103	26	24	41	128	85	63	69	36	33	47	38
25	111	26	24	42	97	72	63	80	41	29	57	33
26	117	26	24	39	79	73	99	82	38	33	48	29
27	93	26	26	36	69	84	102	73	42	33	47	27
28	67	25	25	34	61	75	67	72	45	34	48	26
29	55	25	26	33		63	57	69	42	37	46	24
30	52	26	25	33		51	62	71	41	33	46	23
31	44		25	34		46		69		41	51	
Mean	104	30.7	25.2	81.2	200	49.3	63.0	71.4	51.0	37.3	43.1	54.4
Ac-Ft	6425	1825	1547	4994	11100	3029	3747	4388	3033	2295	2650	3237

E — Estimated NR — No Record

Total Discharge in Acre-Feet 48270

TABLE 146

DAILY MEAN DISCHARGE
TUOLUMNE RIVER AT TUOLUMNE CITY

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1015	2605	2815	1315	960	1370	370	345	320	280	245	261
2	1040	2600	2790	990	835	1085	365	345	315	280	245	255
3	1030	2555	2720	785	975	1130	365	355	310	280	245	250
4	1040	2605	2340	915	1065	1305	360	345	305	285	250	245
5	1070	2640	2260	695	1070	1085	355	330	310	285	255	240
6	1040	2665	2205	1020	1065	965	365	340	310	280	255	240
7	1010	2665	1850	1060	1070	1085	360	340	305	270	255	235
8	1015	2675	1765	1040	1035	970	360	335	260	270	250	235
9	1040	2655	1750	1200	910	1345	360	330	290	265	255	235
10	1015	2640	1735	1195	1210	975	375	335	295	260	255	210
11	1015	2645	1725	1465	1420	1000	380	375	300	260	250	245
12	1035	2690	1725	1200	1680	1070	380	350	295	270	255	245
13	955	2715	1720	1000	1380	1035	385	330	300	265	255	250
14	980	2725	1590	1185	1130	995	370	330	290	265	265	240
15	1035	2730	1310	1235	995	850	355	340	295	265	260	245
16	1110	2745	1375	1290	1040	540	345	330	290	260	260	250
17	960	2740	1245	1280	1995	515	330	320	280	265	260	250
18	860	2775	1200	1200	2095	450	340	340	290	270	250	305
19	805	2796	1180	975	2555	420	345	330	295	275	240	465
20	1210	2820	1190	1140	2905	425	355	335	285	270	245	520
21	1110	2830	1110	1175	2930	425	355	330	290	260	245	435
22	2280	2815	1080	1170	2960	425	355	325	290	260	245	345
23	2520	2775	1095	1185	2950	440	340	320	275	265	245	315
24	2595	2760	1100	1125	2805	455	340	330	275	255	265	300
25	2615	2795	1060	1040	2490	430	340	330	270	260	265	285
26	2645	2835	1060	860	1780	400	360	330	275	260	265	285
27	2615	2815	1065	940	1720	415	390	330	280	260	245	275
28	2600	2775	1056	1020	1655	405	385	330	290	260	255	270
29	2615	2780	1045	945		430	355	320	300	260	250	270
30	2570	2815	1125	960		390	350	315	285	250	255	270
31	2605		1140	1020		390		320		245	260	
Mean	1518	2723	1562	1085	1667	749	360	334	292	266	253	282
Ac-Ft.	93322	162012	96052	66694	92588	46056	21402	20549	17395	16374	15560	16802

E — Estimated NR — No Record

Total Discharge in Acre-Feet 664800

TABLE 147

DAILY MEAN DISCHARGE
BURKHARDT DRAIN NEAR GRAYSON

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							27	23 E	14	62	46	15
2							26	20 E	17	48	42	21
3							32	21 E	28	54	35	17
4							38	16 E	32	62	35	13
5							47	14 E	22	57	41	16
6							39	12 E	28	49	39	15
7							31	13 E	34	47	41	14
8							32	20 E	30	43	43	18
9							27	20 E	30	44	39	15
10							28	23 E	35	50	33	9.4
11							28	20 E	48	51	30	8.4
12							27	18 E	49	53	32	7.6
13							30	26 E	38	55	33	11
14							32	23 E	37	59	32	13
15							31	14 E	41	58	29	17
16							32	22 E	42	52	33	12
17							37	16 E	39	54	30	9.3
18							37	24 E	32	48	26	32
19							40	25 E	31	51	34	12
20							38	31 E	22	38	36	6.7 E
21							35	28 E	30	32	32	5.2 E
22							41	26	31	31	31	3.9 E
23							39	22	33	32	30	2.9 E
24						10 E	40	23	36	34	25	1.8 E
25						16	40	18	35	40	21	1.6
26						22	37	17	46	44	20	1.4
27						18	31	25	44	36	16	2.6
28						16	33	29	49	37	15	2.9
29						20	26 E	32	53	45	15	8.4
30						21	23 E	26	55	44	16	13
31						25		29		48	9.6	
Mean							33.5	21.8	35.4	47.0	30.3	10.9
Ac-Ft							1991	1341	2104	2892	1864	647

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 148

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER AT HETCH HETCHY AQUEDUCT CROSSING

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2140	3400 E	3650	1875	1750	2490 E	990	940	715	440	200 E	460
2	2000	3400 E	3650	1750	1630	2080 E	885	950	720	390	225 E	440
3	1990	3310 E	3620	1380	1620	2310 E	845	980	635	375	265 E	470
4	2150	3110 E	3310	1515	1800	2450 E	770	910	555	420	300	495
5	2110	3420	3090	1380	1740	2375 E	720	825	520	470	285	490
6	2120	3460	3060	1515	1710	2105 E	730	760	485	490	285	470
7	2160	3490	2700	1805	1685	2035 E	700	685	490	420	290	500
8	2110 E	3480	2520	1610	1670	1970 E	670	680	530	375	300	515
9	2200 E	3470	2480	1770	1610	1835 E	665	685	515	365	340	495
10	2100 E	3440	2460	1915	1670	1765 E	680	645	515	365	355	490
11	1960 E	3410	2390	2070	2030	1695 E	660	770	550	310	330	460
12	1960 E	3480	2370	2110	2310	1695 E	660	725	545	325	310	425
13	1890 E	3500	2350	1780	2100	1595	665	645	500	315	285	450
14	1890 E	3520	2270	2050	2055	1565	655	625	530	290	320	455
15	1860 E	3520	1950	2185	2015	1545	610	655	585	270	330	470
16	2100 E	3520	1890	2310	2260	1215	605	625	490	260	340	500
17	2130 E	3540	1740	2320	3205 E	1075	595	660	420	260	400	510
18	1960 E	3570	1630	2250	2545 E	995	615	640	420	295	400	655
19	1890 E	3650	1590	2050	2760 E	870	605	640	415	310	385	1010
20	1740 E	3680	1590	2005	3360 E	845	615	670	410	310	345	1140
21	1820 E	3690	1580	2100	3440 E	845	590	685	420	290	352	1140
22	2130 E	3680	1530	2065	4230 E	825	550	700	435	280	370	1030
23	3400 E	3600	1540	1975	4210 E	845	530	700	435	255	460	99[illegible]
24	3500 E	3560	1570	2010	3995 E	955	560	690	385	280	540	965
25	3500 E	3580	1570	2015	3540 E	1005	555	700	350	295	410	920
26	3500 E	3650	1550	1840	2485 E	1000	540	655	365	295	515	850
27	3500 E	3680	1550	1715	3055 E	1015	975	625	365	300	505	780
28	3400 E	3620	1580	1930	2940 E	1020	1115	660	410	280	430	760
29	3400 E	3600	1580	1810		1065	1155	635	480	250	475	715
30	3310 E	3650	1630	1725		1110	1055	640	435	230	520	700
31	3400 E		1670	1810		1105		665		225	515	
Mean	2430	3523	2183	1892	2479	1461	719	712	488	324	370	658
Ac-Ft	149395	209613	134202	116311	137693	89851	42774	43775	29008	19904	22774	39174

E — Estimated NR — No Record

Total Discharge in Acre-Feet 103400

TABLE 149

DAILY MEAN DISCHARGE
STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33	233	934	148	85	1600	29	28	31	24	30	25
2	70	233	1110	142	83	1590	29	28	31	25	31	24
3	90	257	1080 E	145	35	1580	28	29	29	27	31	25
4	88	441	1070 E	155	28	1570	27	29	29	28	27	25
5	90	549	1070 E	162	26	1360	34	31	28	29	27	24
6	92	512	1060 E	187	26	1120	38	30	31	27	28	23
7	92	427	1050 E	158	28	1110	42	31	32	26	29	23 E
8	85	404	1040 E	325	36	1120	43	31	33	26	29	23 E
9	83	207	1030	636	45	908	45	32	33	26	28	24 E
10	83	199	1020	585	60	448	46	32	30	29	28	24 E
11	77	199	1020	352	263	324	49	33	32	29	27	26 E
12	77	220	1020	603	483	216	49	30	36	29	25	26 E
13	79	237	1050	712	1080	186	42	27	35	30	27	24 E
14	75	260	1020	654	498	54	42	27	35	28	29	24 E
15	71	270	981	254	97	36	33	30	34 E	26	30	22 E
16	77	280	269	190	321	36	34	30	33 E	27	30	21 E
17	81	330	220	154	136	38	34	29	31	28	31	21
18	81	458	220	35	148	42	34	29	30	27	29	30
19	77	458	223	30	105	38	34	28	30	28	26	53
20	92	462	268	47	88	37	36	28	29	30	30	37
21	139	462	258	108	92	39	37	27	29	27	32	28
22	145	465	324	83	100	43	38	26	28	25	33	22
23	145	465	561	403	79	43	35	30	26	27	33	19
24	148	465	495	584	166	45	33	31	27	29	27	18
25	148	520	318	607	1170	38	33	31	28	30	26	18
26	155	631	324	822	1530	38	38	30	28	29	26	19
27	100	647	346	709	1390	54	33	31	28	29	25	19
28	207	651	336	154	1610	41	28	31	30	27	26	19
29	220	659	336	88		33	28	29	29	25	28	19
30	220	659	340	85		33	28	30	26	29	28	19
31	233		303	85		32		30		29	27	
Mean	111	409	668	303	350	447	36.0	29.6	30.4	27.6	28.5	24.1
Ac-Ft.	6849	24320	41050	18650	19450	27480	2140	1821	1807	1696	1751	1436

E — Estimated NR — No Record

Total Discharge in Acre-Feet 148400

TABLE 150

DAILY MEAN DISCHARGE
STANISLAUS RIVER AT RIVERBANK

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	116	262	770	249	192 E	1660	99	99	88	75	73	95
2	119	262	1060	196	192 E	1650	98	97	88	75	75	93
3	150	258	1080	190	132 E	1650	95	103	88	73	77	91
4	158	403	1080	194	109 E	1640	95	99	90	73	74	93
5	169	561	1060	200	81	1550	98	95	84	70	64	91
6	178	571	1080	227	79	1190	105	105	75	72	64	70
7	184	512	1090	227	80	1170	111	101	91	72	66	62
8	186	469	1100	196	84	1180	118	102	89	72	75	60
9	184	258	1100	589	88	1130	111	99	86	71	80	61
10	186	206	1080	774	101	649	121	102	83	70	83	59
11	176	190	1100	450	259	426	115	101	83	77	81	62
12	160	196	1080	429	206	332	119	94	85	80	74	63
13	157	208	1120	696	1070	289	116	93	80	85	65	60
14	150	227	1120	701	811	193	115	98	85	79	66	68
15	136	242	1140	286 E	260	127	111	103	86	72	65	77
16	146	249	571	240 E	309	116	106	101	84	68	68	86
17	164	244	327	216 E	356	122	108	99	79	71	73	90
18	157	423	327	124 E	198	122	102	98	79	72	71	132
19	145	473	289	109 E	192	122	97	103	77	70	70	216
20	140	479	362	138 E	150	111	97	99	83	70	68	188
21	178	486	348	192 E	155	113	105	95	79	71	74	133
22	208	489	348	184 E	184	121	109	94	74	72	79	101
23	214	495	605	399 E	140	124	105	94	73	68	78	97
24	214	502	661	568 E	121	136	102	102	69	69	83	90
25	214	505	447	586 E	777	130	101	102	74	73	75	83
26	227	657	387	774 E	1540	127	109	103	75	79	71	85
27	167	672	426	669 E	1490	130	115	101	77	75	66	79
28	194	688	417	231 E	1540	125	99	101	80	70	68	80
29	246	704	414	192 E		119	99	98	86	63	77	80
30	255	700	414	190 E		113	99	94	81	63	84	79
31	260		420	192 E		108		90		68	91	
Mean	179	420	736	342	389	541	106	98.9	81.7	72.2	73.5	90.8
Ac-Ft	10990	24970	45270	21040	21610	33270	6308	6079	4862	4439	4518	5403

E — Estimated NR — No Record Total Discharge in Acre-Feet 188800

TABLE 151

DAILY MEAN DISCHARGE
STANISLAUS RIVER NEAR MOUTH

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	327	386	757	479	305	1410		157	76	54	43	48
2	328	388	848	386	287	1470		152	66	50	70	47
3	277	328	1050	330	278	1470		131	71	63	32	44
4	282	292	1090	315	260	1480		139	87	33	19	43
5	349	355	1060	314	243	1490		134	69	37	15	70
6	352	512	1090	317	226	1350		103	83	18	26	107
7	374	590	1110	328	220	1150		80	110	20	22	116
8	357	562	1110	328	216	1150	150 E	92	90	25	22	91
9	352	559	1120	333	210	1120		94	71	33	52	44
10	357	424	1120	598	214	982		119	69	28	21	55
11	344	349	1120	765	222	732		92	65	14	13	56
12	338	325	1120	587	317	563		100	54	23	23	56
13	312	328	1120	583	374	462		87	51	26	15	88
14	336	341	1150	757	841	372		83	68	33	17	81
15	369	357	1150	749	732	357		99	52	14	15	62
16	325	360	1110	605	457	329	113	99	44	11	57	51
17	292	355	675	454	513	258	90	92	46	28	52	43
18	275	371	505	386	400 E	273	110	92	31	12	45	137
19	285	470	442	310	330 E	220	150	76	32	30	57	354
20	249	535	418	265	300 E	195	117	95	43	37	73	457
21	218	559	448	242	300 E	189	106	75	58	44	46	417
22	244	562	439	256	310 E	214	123	73	48	55	50	334
23	310	566	442	249	290 E	226	131	88	49	35	107	253
24	330	569	616	304	260 E	222	112	103	43	32	82	232
25	336	569	660	598	300 E	212	134	103	26	23	81	216
26	300	580	528	682	741	232	210	73	39	41	71	208
27	308	679	473	789	1250	222	220	81	58	37	77	191
28	330	717	483	837	1280	185	189	99	67	26	71	161
29	325	733	476	566		230	150	98	65	27	74	142
30	328	753	457	385		160	157	92	61	20	98	123
31	374		476	332		152		94		32	58	
Mean	[illegible]	48[illegible]	795	465	417	616	136	99.8	59.7	31.0	48.5	144
Ac-Ft	[illegible]	[illegible]	[illegible]	28620	23160	37850	8069	6139	3554	1906	2983	8583

E — Estimated NR — No Record Total Discharge in Acre-Feet 218300

TABLE 152

DAILY MEAN DISCHARGE
DUCK CREEK DIVERSION NEAR FARMINGTON

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
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	88							0
11				0	296							0
12	N	N	N	0	1	N	N	N	N	N	N	0
13	O	O	O	0.5	0	O	O	O	O	O	O	0
14				0	0							0
15				0	5							0
16	F	F	F	0	204	F	F	F	F	F	F	0
17	L	L	L	0	5	L	L	L	L	L	L	0
18	O	O	O	0	28	O	O	O	O	O	O	0
19	W	W	W	0	147	W	W	W	W	W	W	4
20				0	0							0
21				0	178							0
22				0	25							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
30				0								0
31				0								
Mean	0	0	0	0.0[illegible]	35	0	0	0	0	0	0	0.1
Ac-Ft	0	0	0	1.0	1938	0	0	0	0	0	0	7.9

E — Estimated NR — No Record

Total Discharge in Acre-Feet 1947

TABLE 153

DAILY MEAN DISCHARGE
LITTLEJOHNS CREEK AT FARMINGTON

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	0.4		0	3	43	8	1		0		0
2	6	0.3		0	2	34	9	0.9		0		0
3	4	0.2		0	1	29	6	1		0		0
4	3	0.2		0	1	26	2	0		0		0
5	5	0.2		0	1	23	0.7	0		0		0
6	2	0.2		0	2	18	1	0		0		0
7	3	0.1		0	1	17	0.5	0		0		0
8	4	0.1		0	1	18	0.5	0		0		0
9	4	0.1		0	1	16	0.8	0		0		0
10	2	0.1		0	41	12	0.8	0		0		0
11	1	0.3		1	841	9	1	0		1		0
12	1	0.5	N	11	527	7	1	0	N	0	N	0
13	1	0.4	O	25	283	6	0.7	0	O	1	O	0
14	1	0.2		38	258	5	0	0.5		0		0
15	5	0		24	112	5	1	0.5		0		0
16	3	0	F	19	444	4	2	0.5	F	0.8	F	0
17	7	0	L	16	823	2	2	0.4	L	0.6	L	0
18	5	0	O	12	288	2	1	0	O	0	O	0
19	4	0	W	9	700	2	1	0	W	0	W	29
20	1	0		6	296	1	0.9	0		0		40
21	3	0		3	475	1	1	0		0		61
22	1	0		2	752	2	2	0		0		63
23	4	0		1	271	3	1	0		0		46
24	5	0		1	217	2	0	0		0		25
25	4	0		1	107	1	0	0		0		15
26	2	0		1	82	3	1	0		0		9
27	1	0		3	66	5	3	0		0		7
28	1	0		6	52	4	3	0.1		1		7
29	0.7	0		6		3	3	0.1		1		2
30	0.6	0		6		3	2	0.1		0		1
31	0.5			4		7		0.1		0		
Mean	2.9	0.1	0	6.3	237	10	1.9	0.2	0	0.17	0	10.2
Ac-Ft	178.5	6.5	0	387	13186	621	111	10.3	0	10.7	0	605.0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 15116

TABLE 154

DAILY MEAN DISCHARGE
SOUTH SAN JOAQUIN IRRIGATION DISTRICT DRAIN 11 NEAR MANTECA

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					6.7	8.6	18	19	22	23	13	20 E
2					6.2	9.4	21	20	24	24	16	19
3					6.2	8.5	24	21	23	19	13	19
4					5.8	8.5	24	23	22	15	12	12
5					6.5	9.0	24	21	18	14	14	19
6					5.8	8.8	22	23	18	15	12	23
7					6.1	8.5	22	24	22	13	12	16
8					6.0	9.4	19	22	27	22	12	19
9					6.7	8.7	20	23	24	31	19	19
10					6.2	8.9	23	20	18	18	21	18
11					6.2	9.6	21	22	19	12	20	16
12					6.2	9.4	19	23	21 E	13	17	13
13					7.0	9.7	20	22	29	9.8	17	16
14					6.4	9.8	20	22	24	11	18 E	19
15					7.2	9.6	18	21	24	14	13 E	23
16					7.1	11	20	22	15	11	10 E	24
17					7.6	11	22	22	22	15	9.9 E	17
18					7.1	12	20	22	19	13	11 E	24
19					7.1	11	19	26	19	18	12 E	52
20					7.1	10	19	25	16	22	17 E	48
21					8.8	11	19	21	23	13	21 E	39
22					11	11	21	22	20	12	23 E	15
23					10	11	22	2[illegible]	10	12	21 E	7.0
24					10	11	22	21	13	16	23 E	7.3
25					8.9	11	22	[illegible]	11	16	23 E	9.0
26					8.9	16	26	1	13	14	14 E	9.6
27					9.1	14	30	T	14	15	14 E	9.8
28					8.7	11	24	23 E	16	17	17 E	9.4
29				6.4 E		13	18	1	23	13	23 E	10
30				6.4		17	18	18	[illegible]	13	24 E	9.4
31				6.3		14		21		11	30 E	
Mean					7.4	10.7	21.2	21.9	19.7	15.6	16.8	18.7
Ac-Ft					410	657	1263	1345	1174	962	1035	1116

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 155

DAILY MEAN DISCHARGE
SOUTH SAN JOAQUIN IRRIGATION DISTRICT MAIN DRAIN AT FRENCH CAMP

In second feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	77	38	18	11	13	22	54	54	54	42	36	41
2	76	35	18	11	13	21	47	46	54	40	38	42
3	71	31	18	11	13	20	55	52	50	48	39	53
4	62	30 E	18	11	13	20	55	51	51	47	39	56
5	77	28 E	19	14	13	19	54	45	53	44	35	43
6	66	27 E	19	26	13	20	55	46	49	44	48	40
7	63	26 E	19	15	13	19	54	48	52	39	45	37
8	64	24	19	13	13	18	51	44	55	43	41	36
9	68	24	19	21	13	19	55	54	46	45	42	32
10	85	23	19	20	17	18	57	52	48	38	38	35
11	84	22	19	18	62	18	65	43	46	37	40	34
12	80	22	18	21	81	16	60	38	52	44	34	42
13	75	22	18	16	46	16	61	45	49	43	30	48
14	60	22	18	15	40	16	51	46	53	45	30	45
15	64	21	18	15	32	16	54	48	52	46	33	55
16	68	20	17	15	38	16	56	56	45	43	34	47
17	73	20	16	15	98	18	56	40	46	39	33	44
18	66	19	14	14	70	19	56	66	48	37	38	65
19	86	19	14	14	BW	26	59	56	50	40	35	64
20	82	19	14	14	BW	27	59	54	51	34	39	51
21	85	19	14	14	BW	29	62	48	42	34	33	40
22	69	19	13	14	BW	41	52	56	43	29	41	38
23	51	19	12	13	BW	46	51	55	43	32	43	37
24	51	19	12	15	BW	52	55	56	40	36	42	36
25	65	19	12	15	BW	52	55	51	40	32	41	35
26	74	19	13	14	BW	41	59	55	44	28	40	34
27	78	19	15	14	57 E	51	60	59	38	34	46	33
28	72	18	12	14	23	44	46	53	43	36	38	31
29	61	18	12	14		49	38	48	43	36	41	31
30	53	18	11	13		62	52	53	41	41	45	29
31	52		11	13		59		54		32	45	
Mean	69.6	22.6	15.8	14.9		29.4	[illegible]	50.7	47.4	39.0	38.8	41.8
Ac-Ft	4280	1347	970	918		1805	3261	3118	2919	2396	2384	2487

E — Estimated NR — No Record Total Discharge in Acre-Feet

TABLE 156

DAILY MEAN DISCHARGE
FRENCH CAMP SLOUGH NEAR FRENCH CAMP

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65	6.4	—	1.5	4.7	56	10	12	8.0	7.3 E	15	8.8
2	67	6.4	[illegible] E	0.9	3.4	43	3.6	24	4.3	3.8 E	12	5.3
3	72	8.0	—	3.4	2.3	36	7.0	34	6.4	0.4 E	7.2	3.7
4	75	4.3 E	1.0	3.8	2.3	29	11	31	8.0	0.4	7.2	4.3
5	72	4.6 E	0.9	4.2	1.4	24	19	39	17	0.6	8.4	5.7
6	64	4.6 E	0.7	2.3	1.8	20	30	29	11	0.4	9.3	5.7
7	57	5.3	1.1	1.5	1.1	18	21	11	11	0.2	9.3	4.0
8	53	6.4	1.4	5.2	0.9	17	12	4.0	18	0.3	8.0	5.3
9	63	4.[illegible]	1.7	3.8	0.9	15	12	8.4	15	20	8.0	5.3
10	71	3.7	1.5	37	1.0	14	28	6.4	11	15	6.0	6.0
11	75		1.8	101	588	12	26	8.0	12	8.8	5.7	11
12	78		1.1	38	744	11	55	5.5	12	10	6.0	9.7
13	65		0.7	52	358	10	60	5.0	12	4.4	6.0	4.0
14	55	4.0 E	0.7	50	297	9.2	67	12	5.5	1.8	5.3	1.4
15	59		0.6	31	203	8.8	65	5.8	6.7	11	8.0	10
16	39		1.8	20	235	7.3	56	5.0	1.9	14	16	16
17	42		2.6	14	1070	6.1	68	5.0	5.5	10	9.3	16
18	61	4.3 E	3.4	13	460	32	39	12	7.3	5.0	3.4	70
19	73		3.0	10	710	19	34	6.9	6.7	8.8	2.4	177
20	79		3.2	8.4	441	27	31	7.2	3.9	14	4.6	197
21	49		3.0	6.7	550	29	23	4.7	7.0	16	6.8	19[illegible]
22	39		2.0	4.2	933	32	28	8.8	2.8	12	4.3	147
23	35		2.0	2.6	656	41	37	12	2.8	16	5.0	91
24	29		1.9	1.9	358	71	31	17	4.2	13	7.2	48
25	36	. E	0.8	2.2	193	54	15	28	3.3	13	9.7	24
26	23		0.6	2.2	117	43	50	27	8.8	18	8.8	16
27	22		0.6	5.5	87	56	90	26	7.7	7.7	6.4	12
28	14		0.5	4.2	71	50	39	20	12	5.7	5.0	6.0
29	11		0.7	4.0	—	57	15	8.0	10	14	2.9	3.4
30	16		1.5	5.5	—	69	14	10	7.3	14	4.6	4.6
31	16		1.0	6.1	—	57	—	14	—	14	7.6	—
Mean	50.8	3.9	1.6	14.4	289	31.4	33.6	14.4	8.3	9.0	7.3	37.4
Ac-Ft	3124	234	98	885	16050	1931	1997	886	494	555	447	2216

E — Estimated NR — No Record Total Discharge in Acre-Feet 28920

TABLE 157

DAILY MEAN DISCHARGE
DUCK CREEK NEAR STOCKTON

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.1	[illegible]	0	0.9	1.5	3.7	0.8	0.5	1.5	1.5	0.1
2	0.5	0.1	[illegible]	0	0.5	1.2	1.9	0.4	1.5	1.5	1.1	0.9
3	0.6E	0.1	[illegible]	0	0.3	1.0	1.4	0.5	1.6	0.9	3.8	1.7
4	0.5E	0	[illegible]	0	0.2	0.7	1.3	0.6	1.4	1.1	3.5	2.3
5	0.4E	0	[illegible]	0	0.1	0.5	1.3	0.4	0.6	0.3	2.8	0.8
6	0.4E	0	[illegible]	0	0.1	0.4	1.3	0.3	0.8	1.0	1.5	0
7	0.1	0	0.1	0	0	0.2	1.2	1.2	0.9	1.0	2.5	0
8	0	0	0.2	0	0	0.2	0.7	0.9	1.8	1.1	2.1	0.3
9	0.1	0	0.1	0	0	0.1	0.1	0.6	1.3	0.4	1.4	0.1
10	0	0.1	0.2	0.4	0	0	0.4	0.6	1.0	1.2	0.5	2.3
11	0	0.1	0	2.5	0.1	0	0.6	1.9	2.2	0.9	2.9	1.3
12	0.1	0.3	0	11	51	0	0.9	3.2	1.8	2.5	2.5	1.1
13	0.8	0.2	0	3.6	22	0	0.9	2.8	0.8	1.5	4.8	1.8
14	0.5	0.1	0	9.7	11	0	0.9	2.5	0.4	1.8	5.4	0.1
15	0.4	0.2	0	10	7.0	0	2.7	1.0	0.5	1.5	2.7	0
16	0.4	0.4	0	6.6	5.9	0	3.0	0.6	1.3	2.5	0.6	0
17	0.4	0.2	0	3.8	102	0	3.3	0.9	1.5	1.3	0.9	0 E
18	0.3	0.1	0	2.4	48	0	4.4	0.2	1.7	3.0	1.5	18 E
19	0.4	0.1	0	1.7	84	0.1	3.9	0.1	2.0	1.5	2.1	50
20	0.2	0.1	0	0.9	75	0.3	4.6	0.7	1.3	1.5	2.7	35
21	0	0.1	0	0.5	51	0.6	4.6	1.9	1.6	0.8	2.5	43
22	0	0.1	0	0.3	135	0.9	3.9	0.9	1.0	1.0	3.2	33
23	0	0.5	0	0.2	56	1.4	2.8	1.4	0.8	2.5	3.5	17
24	0.2	0.2	0	0.1	21	1.5	3.7	0.6	0.7	3.0	1.5E	9.5
25	0	0.2	0	0.2	11	1.5	4.3	1.4	0.7	1.7	2.8E	6.0
26	0.2	0.1	0	0.1	6.4	0.8	8.4	1.7	0.6	1.5	3.2E	3.5
27	0.2	0	0	0	5.6	0.4	2.4	1.5	0.5	3.0	3.0E	2.0
28	0.2	0	0	0	2.3	1.2	1.5	0.9	1.4	3.0	2.6	1.1
29	0.3	0	0	0		2.6	1.6	0.3	2.1	1.4	4.6	0.5
30	0.2	0	0	0		2.3	1.4	0.7	2.1	1.0	3.7	0.2
31	0.1		0	1.1		2.0		0.8		1.8	0.4	
Mean	0.3	0.1	0.0	1.9	24.8	0.7	2.4	1.1	1.2	1.6	2.5	7.7
Ac-Ft	16	7	1	119	1377	42	145	65	72	97	154	459

E — Estimated NR — No Record Total Discharge in Acre-Feet 2554

TABLE 158

DAILY MEAN DISCHARGE
CALAVERAS RIVER AT BELLOTA

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0			0	0.2	91	4.5	0	93 E	1.2		
2	0			0	0.2	88	1.4	0	176 E	0.8		
3	0			0	0.2	86	1.5	0	128	1.1		
4	0			0	0.2	42	2.0	0	141	0.6		
5	0			0	0.2	11	0.9	0	149	0		
6	0			0	0.2	10	0.5	0	136	0		
7	0			0	0.2	9.8	0	0	134	0		
8	0			0	0.2	9.2	0	0	129	0		
9	0			0	0.1	8.8	0	0	121	0		
10	0			0	0.1	9.4	0	0	125	0		
11	0			0.1	0.3	11	0	0	146	0		
12	0	N	N	54	147	8.5	0	0	164	0	N	N
13	0	O	O	87	178	7.2E	0	0	153	0	O	O
14	0.3			58	124	4.1E	0	0	142	0		
15	2.2			1.1	100	1.0E	0	0	138	0		
16	1.3	F	F	1.0	139	1.1E	0	0	135	0	F	F
17	0	L	L	0.9	104	1.4E	0	0	131	0	L	L
18	0	O	O	0.9	117	1.9E	0	0	127	0	O	O
19	0	W	W	0.8	137	2.0E	0	0	123	0	W	W
20	0			0.8	139	1.4E	0	0	114	0		
21	0			0.7	202	0.8E	0	0	104	0		
22	1.2			0.7	209	0.8E	0	0	94	0		
23	2.3			0.7	178	3.3E	0	0	68	0		
24	3.0			0.7	159	0.4E	0	0	49	0		
25	3.7			0.6	142	0.4E	0	0	37	0		
26	3.9			0.4	130	1.9E	0	0	18	0		
27	3.9			0.4	121	4.1E	0	0	11	0		
28	2.7			0.3	103	4.4E	0	0	4.0	0		
29	0.6			0.3		4.4E	0	0	4.6	0		
30	0			0.3		4.6	0	0	2.6	0		
31	0.5			0.2		4.6		7.7		0		
Mean	0.8	0	0	6.8	86.8	14.0	0.4	0.2	103	0.1	0	0
Ac-Ft	51	0	0	416	4822	862	21	15	6143	7	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 12340

TABLE 159

DAILY MEAN DISCHARGE
CALAVERAS RIVER NEAR STOCKTON

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	0	69			0.1	0	0.2	0
2				0	0	65			0	0	0.3	0
3				0	0	61			0.6E	0.1	0.4	0
4				0	0	53			23 E	0.1	0.3	0
5				0	0	10			24	0	0.3	0
6				0	0	6.7			20	0	0.3	0
7				0	0	5.3			14	0	0.4	0
8				0	0	4.3			12	0	0.2	0
9				0	0	3.3			2.5	0	0.4	0
10				0	0	2.6			0.2	0	0.5	0
11				0	0	3.2			0	0	0.5	0
12	N	N	N	0	24	4.0	N	N	0.4	0	0.5	0
13	0	0	0	50	139	2.0	0	0	26	0	0.4	0
14				65	106	0.6			26	0.1	0.4	0
15				7.5	76	0			21	0.1	0.4	0
16	F	F	F	0 E	102	0	F	F	16 E	0	0.4	0
17	L	L	L	0	123	0	L	L	13 E	0	0.4	0
18	0	0	0	0	113	0	0	0	22	0	0.4	0.1E
19	W	W	W	0	130	0	W	W	15	0	0.4	0.1
20				0	128	0			11	0	0.4	0.2
21				0	153	0			12	0	0.4	0.1
22				0	205	0			5.1	0	0.4	0.1
23				0	161	0			0.1	0	0.4	0.1
24				0	139	0			0	0	0.5	0.1
25				0	123	0			0	0	0.5	0.1
26				0	106	0			0	0	0.5	0
27				0	95	0			0	0	0.6	0
28				0	87	0			0	0	0.6	0
29				0		0			0	0.1	0.2	0
30				0		0			0	0.1	0	0
31				0		0				0.2	0.6	
Mean	0	0	0	4.0	71.8	9.4	0	0	8.8	0.0	0.4	0.0
Ac-Ft	0	0	0	243	3987	575	0	0	524	2	24	2

E — Estimated NR — No Record Total Discharge in Acre-Feet 5357

TABLE 160

DAILY MEAN DISCHARGE
MORMON SLOUGH AT BELLOTA

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	4.2	5.0	29	57	158 E	0.2	0	65			
2	0.5	5.0	5.8	27	50	100 E	0	0	300 E			
3	0.5	5.8	4.2	26	48	100 E	0	0	63 E			
4	0.3	7.6	2.9	24	46	134 E	0	0	81			
5	0.3	6.7	0.5	27	42	144	0	0	80			
6	0.3	7.6	0	31	40	141	0	0	60			
7	0.1	8.6	6.8	61	38	131	0	0	57			
8	0	7.6	16	92	38	121	0	0	51			
9	0	8.6	18	89	38	128	0	0	41			
10	0	11	16	419	162	334	0	0	47			
11	0	12	16	938	2210	793	0	0	68			
12	0	13	14	413	1660	168	0	0	65	N	N	N
13	0	13	16	168	662	57	0	0	64	O	O	O
14	0	14	16	158	313	20	0	0	58			
15	0	16	16	151	237	17	0	0	60			
16	0	20	16	109	1050	9.6	0	0	58	F	F	F
17	0	38	16	89	264	8.6	0	0	56	L	L	L
18	0	66	14	78	403	7.6	0	0	49	O	O	O
19	0	46	14	71	982	5.8	0	0	46	W	W	W
20	0	17	17	61	1080	5.0	0	0	33			
21	0	8.6	18	59	1430	5.0	0	0	23			
22	0	18	18	54	1050 E	4.2	0	0	13			
23	0	26	20	50	681 E	1.9	0	0	4.7			
24	0	26	20	77	508 E	4.2	0	0	2.0			
25	0	20	20	115	392 E	4.2	0	0	0.1			
26	0	9.6	20	92	328 E	1.7	0	0	0.2			
27	0	9.6	24	109	285 E	2.9	0	0	0			
28	0	18	26	95	263 E	4.2	0	0	0			
29	2.3	20	36	81		4.2	0	0	0			
30	4.2	6.7	38	73		4.2	0	0	0			
31	3.5		32	64		2.4		3.3				
Mean	0.4	16.3	16.2	127	513	84.6	0.0	0.1	48.2	0	0	0
Ac-Ft.	26	972	996	7795	28480	5200	0	7	2866	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 46340

TABLE 161

DAILY MEAN DISCHARGE
STOCKTON DIVERTING CANAL AT STOCKTON

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0	17	43	125			0			0
2		0	0	13	39	105			89			0
3		0	0	8.9	34	88 E			61			0
4		0	0	8.0	31	78			38			0
5		0	0	8.3	29	115			75			0
6		0	0	8.9	28	112			46			0
7		0	0	11	26	106			10			0
8		0	0	63	25	99			5.9			0
9		0	0	79	25	92			1.1			0
10		0	0	148	30	143			0			0
11		0	0	943	2040	766			0			0
12	N	0	0	467	1900	207	N	N	6.4	N	N	0
13	O	0	0	212	763	88	O	O	20	O	O	0
14		0	0	136	327	21			15			0
15		0	0	153	196	3.7			16			0
16	F	0	0	106	985	0	F	F	10	F	F	0
17	L	0	0	81	540	0	L	L	7.1	L	L	0
18	O	0	0	66 E	656	0	O	O	6.3	O	O	0
19	W	0	0	56 E	1380	0	W	W	7.5	W	W	0
20		1.2	0	49	1370	0			1.2			0.3
21		11	0	42	1640	0			0			6.1
22		3.5	0	37	1400	0			0			1.9
23		0.3	0	30	755	0			0			0
24		0	0	29	485	0			0			0
25		8.5	0	87	339	0			0			0
26		19	0	84	249	0			0			0
27		7.5	0	83	186	0			0			0
28		1.6	5.3	85	144	0			0			0
29		0	8.6	70		0			0			0
30		0	24	61		0			0			0
31			24	50		0						
Mean	0	1.8	2.0	106	559	[illegible]	0	0	13.8	0	0	0.3
Ac-Ft.	0	104	123	6530	31070	[illegible]	0	0	824	0	0	16

E — Estimated NR — No Record Total Discharge in Acre-Feet 42930

TABLE 16a

DAILY MEAN DISCHARGE
DELTA MENDOTA CANAL NEAR TRACY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec	Jan.	Feb	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2102	[illegible]	12[illegible]	[illegible]	[illegible]	[illegible]	2413	2301	3107	3797	3993	1927
2	2025	503	213	69	537	886	2515	2144	3101	3795	3797	1865
3	2024	503	214	69	756	933	2385	2122	3100	3797	3798	1980
4	1952	502	250	68	757	1133	2289	2205	3165	3727	3500	1960
5	1946	502	250	69	[illegible]	1098	2387	2222	3164	3694	3433	1959
6	1950	502	250	69	933	1099	2380	2116	3072	3661	3433	1957
7	1950	502	249	0	933	1199	2434	2085	3072	3368	3461	1963
8	1788	503	180	0	934	1299	2640	2085	3070	3426	3465	1896
9	1263	503	0	0	997	1737	2650	2090	3[illegible]	3523	3572	1901
10	1175	505	69	0	682	1800	2810	2336	3065	3464	3572	1736
11	1268	503	69	0	684	1943	2772	2337	3290	3641	3629	1703
12	1133	502	69	0	576	2041	2773	2349	3296	3749	3625	1669
13	1[illegible]	502	69	0	575	2110	2772	2518	3291	3755	3560	1673
14	1021	503	69	69	575	2148	2708	2578	3291	3709	3703	1676
15	939	2[illegible]	69	69	576	2577	2871	2641	3286	3901	3721	1832
16	967	502	0	69	579	2196	2892	2634	3360	3924	3716	1839
17	967	499	69	69	391	2641	2901	2637	3398	3925	3716	2196
18	966	499	0	69	396	2646	2901	2577	3579	3936	3451	2100
19	965	496	69	249	360	2738	2901	2512	3518	3931	3438	1866
20	963	499	0	247	432	2675	2838	2516	3516	3934	3366	1375
21	715	500	69	249	434	2351	2940	2516	3576	4095	3203	1478
22	702	501	0	573	251	2527	2908	2587	3585	4087	3036	1732
23	683	501	69	573	250	2523	2972	2919	3589	4006	3031	1736
24	683	501	0	574	250	2519	2985	2911	3583	3995	3036	1729
25	683	501	69	647	359	2517	3047	2916	3512	3989	2690	1677
26	684	502	69	720	541	2517	a 2604	2976	3895	4002	2696	1850
27	682	502	69	718	542	2364	2374	2970	4035	4023	2739	b 1878
28	646	429	69	611	650	1984	2301	3029	4028	4014	2671	1915
29	609	429	69	610		1986	2193	3091	4030	4028	2391	1989
30	610	429	69	611		1986	2303	3096	3896	3994	2340	1923
31	610			610		1918		3097		3994	2192	
Mean	1149	48[illegible]	47	[illegible]	[illegible]	1982	[illegible]	2546	3412	3842	3289	1833
Ac-Ft	70645	29488	5935	15372	32434	120649	168455	156524	203389	236239	202262	109206

E — Estimated NR — No Record Total Discharge in Acre-Feet 1341000

a - 23 hour day
b - 25 hour day

TABLE 16

DAILY MEAN DISCHARGE
CONTRA COSTA CANAL NEAR OAKLEY

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	104	60	59	69	45	46	65	105	138	148	189	120
2	101	61	57	65	46	45	67	102	142	146	185	119
3	103	72	58	68	44	45	67	103	142	143	186	118
4	98	67	62	70	47	53	72	99	145	144	183	118
5	96	58	66	49	45	46	72	101	150	141	186	118
6	80	53	59	48	54	47	78	105	154	141	186	117
7	96	57	61	55	54	50	98	109	153	144	172	110
8	96	60	61	56	52	48	118	112	153	150	168	110
9	97	59	61	54	53	82	101	109	148	152	183	109
10	96	58	64	52	46	78	89	108	148	171	168	115
11	96	60	62	52	47	76	93	108	148	171	151	116
12	95	59	67	53	45	83	88	109	144	162	151	120
13	110	55	67	49	44	51	89	108	145	165	148	119
14	124	50	68	47	44	54	95	104	142	161	148	161
15	116	50	68	54	46	63	96	118	141	173	141	119
16	115	45	69	57	43	77	94	114	139	170	137	113
17	97	47	72	56	44	71	91	109	140	166	135	114
18	91	49	61	56	44	67	91	111	139	165	127	109
19	97	50	64	53	44	71	92	110	142	160	127	96
20	100	53	64	53	44	64	92	117	145	154	125	86
21	82	56	62	48	44	65	95	121	143	152	127	83
22	85	60	55	49	44	65	91	122	143	160	126	79
23	79	60	57	48	45	62	99	123	147	160	120	71
24	71	57	58	50	43	56	100	118	153	162	121	66
25	65	61	56	49	45	58	95	124	155	164	121	66
26	59	69	59	49	50	56	a 93	127	148	192	118	66
27	65	62	56	45	46	58	86	128	147	192	118	b 63
28	72	63	54	45	46	60	89	130	147	189	118	89
29	65	59	61	45		59	100	136	147	182	119	98
30	65	57	68	48		59	107	137	148	187	119	147
31	63		67	48		61		149		183	111	
Mean	89.6	57.6	62.0	52.9	46.2	60.5	90.1	115	146	163	146	104
Ac-Ft	5512	3425	3814	3252	2567	3721	5361	7093	8680	10020	8954	6218

E — Estimated NR — No Record Total Discharge in Acre-Feet 68620

a - 23 hour day.
b - 25 hour day.

TABLE 164

DAILY MEAN DISCHARGE
SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR 2

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0		0	23	29	0	31			0	12	
2	0		0	23	30	0	28			0	12	
3	0		0	23	30	0	25			0	12	
4	0		0	23	29	0	7			0	12	
5	0		0	40	29	0	0			0	12	
6	0		0	47	29	0	0			0	12	
7	0		0	47	29	0	0			0	12	
8	0		0	48	26	0	0			0	12	
9	0		0	49	25	0	0			0	13	
10	0		0	54	26	0	0			0	13	
11	0		0	56	28	0	0			0	13	
12	0	N	0	56	26	7	0	N	N	0	13	N
13	0	O	0	55	23	11	0	O	O	0	13	O
14	0		0	58	9	12	0			0	4	
15	0		3	64	0	12	0			0	0	
16	0	F	6	54	0	12	0	F	F	0	0	F
17	0	L	8	48	0	12	0	L	L	0	0	L
18	0	O	15	50	0	12	0	O	O	0	19	O
19	0	W	23	52	0	12	0	W	W	0	26	W
20	0		24	35	0	12	0			0	26	
21	0		22	59	0	12	0			0	26	
22	0		22	42	0	12	0			0	27	
23	0		22	26	0	12	0			0	27	
24	0		16	26	0	21	0			0	8	
25	0		13	26	0	25	0			0	0	
26	0		13	26	0	25	0			0	0	
27	0		13	33	0	25	0			0	0	
28	0		13	38	0	27	0			0	0	
29	0		13	32	0	29	0			0	0	
30	17		18	29	0	30	0			8	0	
31	18		23	29		31				12	0	
Mean	1.1	0	8.6	41.0	13.1	11.3	3.0	0	0	0.6	10.4	0
Ac-Ft	69	0	530	2521	730	696	180	0	0	40	643	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5409

TABLE 165

DAILY MEAN DISCHARGE
CROSS CREEK BELOW LAKELAND CANAL 2

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16						N O F L O W						
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean												
Ac-Ft												

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 166

DAILY MEAN DISCHARGE
NORTH FORK TULE RIVER AT SPRINGVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	1.0	2.6	3.7	7.1	48	13	12	1.9	0.2 E	0	0.1
2	0.5	1.0	2.4	3.4	6.9	57	12	16	2.1	0.3 E	0.1	0.2
3	0.5	1.1	2.6	3.4	6.9	60	16	17	2.3	0.4 E	0	0.2
4	0.5	1.2	2.7	3.7	6.9	62	17	15	1.6	0.7	0	0.3
5	0.4	1.0	2.9	3.9	7.1	56	18	14	1.4	0.7	0	0.3
6	0.3	1.4	2.9	20	7.1	52	18	14	1.6	0.4	0	0.3
7	0.7	1.5	2.9	10	6.1	47	18	14	1.4	0.3	0.1	0.3
8	0.7	1.3	2.7	6.6	13	44	17	11	1.4	0.2	0	0.2
9	0.6	1.0	2.7	6.1	11	42	16	8.9	1.1	0.2	0	0.2
10	0.7	1.3	2.7	8.6	12	37	15	7.7	0.7	0.2	0	0.3
11	0.5	2.1	2.9	15	94	32	14	6.1	0.6	0.1	0	0.3
12	0.5	2.4	2.9	14	52	30	14	5.6	0.5 E	0.3	0	0.4
13	0.3	2.7	2.9	16	32	30	11	5.9	0.5 E	0.1	0.1	0.6
14	0.4	3.2	2.9	14	24	28	11	6.9	0.3 E	0.1	0.2	0.5
15	0.5	3.4	2.9	11	23	25	11	7.1	0.3 E	0.2	0.3	0.4
16	0.5	4.1	2.7	10	104 E	23	8.9	5.6	0.3 E	0.3	0.2	0.7
17	0.6	3.4	2.7	9.2	131	21	6.9	4.9	0.3 E	0.3	0.1	1.0
18	0.4	3.2	2.6	8.9	66	20	5.9	3.7	0.4 E	0.4	0.1	1.1
19	0.4	4.1	2.4	8.6	65	19	6.9	4.1	0.4 E	0.2	0.2	1.1
20	0.4	3.2	2.4	9.5	52	17	6.4	4.1	0.4 E	0.3	0.2	1.0
21	0.5	3.4	2.4	9.5	45	15	4.7	3.2	0.5 E	0.1	0.2	1.0
22	0.5	3.4	2.7	8.9	44	14	3.0	2.7	0.4 E	0	0.1	1.0
23	0.6	3.2	3.0	8.9	36	14	2.9	2.4	0.3 E	0	0.1	1.0
24	0.7	3.0	3.2	8.6	30	19	3.5	2.0	0.2 E	0	0.1	1.0
25	1.0	2.9	3.7	8.0	30	18	6.5	4.1	0.2 E	0	0.1	1.0
26	1.2	2.7	3.5	8.6	29	17	35	3.2	0.2 E	0	0.1	1.0
27	1.1	2.7	3.7	8.9	33	18	37	3.0	0.2 E	0	0.3	1.0
28	0.7	2.9	4.7	8.9	39	16	21	2.7	0.2 E	0	0.3	1.0
29	1.1	2.7	4.1	8.9		15	17	2.4	0.2 E	0	0.1	1.0
30	1.1	2.9	3.9	8.9		14	14	2.3	0.2 E	0	0.1	1.0
31	0.9		3.7	8.6		13		2.0		0	0.1	
Mean	0.6	2.4	3.0	9.1	36.2	29.8	13.4	6.9	0.7	0.2	0.1	0.7
Ac-Ft	38	146	184	560	2009	1831	795	424	44	12	6	39

E — Estimated NR — No Record

Total Discharge in Acre-Feet 6088

TABLE 167

DAILY MEAN DISCHARGE
TULE RIVER BELOW PORTERVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0	22	282			215		
2					0	21	285			360		
3					0	18	254			327		
4					0	7.8	240			335		
5					0	0.9 E	221			316		
6					0	0	221			308		
7					0	0	221			285		
8					0	0	221			282		
9					0	234	214			323		
10					0	364	95			360		
11					0	360	0			348		
12	N	N	N	N	14	356	0	N	N	352	N	N
13	O	O	O	O	11	369	0	O	O	352	O	O
14					4.9	373	0			344		
15					3.2	369	0			335		
16	F	F	F	F	17	373	0	F	F	344	F	F
17	L	L	L	L	302	364	0	L	L	339	L	L
18	O	O	O	O	89	360	0	O	O	335	O	O
19	W	W	W	W	32	356	0	W	W	312	W	W
20					32	360	0			137 E		
21					14	369	0			0		
22					13	323	0			0		
23					7.2	308	0			0		
24					1.0 E	300	0			0		
25					0	296	0			0		
26					188	296	0			0		
27					293	285	0			0		
28					172	275	0			0		
29						271	0			0		
30						275	0			0		
31						275				0		
Mean	0	0	0	0	42.6	245	75.1	0	0	204	0	0
Ac-Ft	0	0	0	0	2367	15040	4471	0	0	12510	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 34390

TABLE 168

DAILY MEAN DISCHARGE
PORTER SLOUGH AT PORTERVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0	0						
2					0	0						
3					0	0						
4					0	11						
5					0	20						
6					0	11						
7					0	0						
8					0	0						
9					0	0						
10					0	0						
11					7.6	0						
12	N	N	N	N	25	0	N	N	N	N	N	N
13	O	O	O	O	11	0	O	O	O	O	O	O
14					0	0						
15					0	0						
16	F	F	F	F	18	0	F	F	F	F	F	F
17	L	L	L	L	88	0	L	L	L	L	L	L
18	O	O	O	O	53	0	O	O	O	O	O	O
19	W	W	W	W	49	0	W	W	W	W	W	W
20					44	0						
21					40	0						
22					41	0						
23					37	0						
24					34	0						
25					14	0						
26					0	0						
27					0	0						
28					0	0						
29						0						
30						0						
31						0						
Mean	0	0	0	0	16.5	1.4	0	0	0	0	0	0
Ac-Ft.	0	0	0	0	916	83	0	0	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 999

TABLE 169

DAILY MEAN DISCHARGE
PORTER SLOUGH NEAR PORTERVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0							
2					0							
3					0							
4					0							
5					0							
6					0							
7					0							
8					0							
9					0							
10					0							
11					0							
12	N	N	N	N	0	N	N	N	N	N	N	N
13	O	O	O	O	0	O	O	O	O	O	O	O
14					0							
15					0							
16	F	F	F	F	0	F	F	F	F	F	F	F
17	L	L	L	L	41	L	L	L	L	L	L	L
18	O	O	O	O	32 E	O	O	O	O	O	O	O
19	W	W	W	W	21 E	W	W	W	W	W	W	W
20					18 E							
21					11 E							
22					13 E							
23					10 E							
24					7.0E							
25					3.6E							
26					0							
27					0							
28					0							
29												
30												
31												
Mean	0	0	0	0	5.6	0	0	0	0	0	0	0
Ac-Ft.	0	0	0	0	311	0	0	0	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 311

TABLE 170

DAILY MEAN DISCHARGE
FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH

In second feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0	0						
2					0	0						
3					0	0						
4					0	0						
5					0	0						
6					0	0						
7					0	0						
8					0	0						
9					0	0						
10					0	0						
11					0	0						
12	N	N	N	N	0	0	N	N	N	N	N	N
13	O	O	O	O	0	0	O	O	O	O	O	O
14					0	0						
15					0	0						
16	F	F	F	F	0	0	F	F	F	F	F	F
17	L	L	L	L	0	0	L	L	L	L	L	L
18	O	O	O	O	0	0	O	O	O	O	O	O
19	W	W	W	W	0	0	W	W	W	W	W	W
20					0	0						
21					0	0						
22					0	0						
23					17	0						
24					25	0						
25					25	0						
26					25	5.8						
27					25	10						
28					30	10						
29						10						
30						3.5						
31						0						
Mean	0	0	0	0	5.3	1.3	0	0	0	0	0	0
Ac-Ft.	0	0	0	0	292	78	0	0	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 370

TABLE 171

DAILY MEAN DISCHARGE
FRIANT-KERN CANAL DELIVERY TO TULE RIVER

In second feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0	0	220			268		
2					0	0	220			389		
3					0	0	181			353		
4					0	0	162			355		
5					0	0	149			337		
6					0	0	144			328		
7					0	0	145			312		
8					0	0	145			304		
9					0	250	145			340		
10					0	349	48			355		
11					0	349	0			349		
12	N	N	N	N	0	349	0	N	N	353	N	N
13	O	O	O	O	0	375	0	O	O	357	O	O
14					0	388	0			357		
15					0	388	0			355		
16	F	F	F	F	0	388	0	F	F	355	F	F
17	L	L	L	L	0	386	0	L	L	355	L	L
18	O	O	O	O	0	378	0	O	O	355	O	O
19	W	W	W	W	0	372	0	W	W	335	W	W
20					0	348	0			148		
21					0	319	0			0		
22					0	275	0			0		
23					0	258	0			0		
24					0	243	0			0		
25					0	235	0			0		
26					162	235	0			0		
27					249	225	0			0		
28					128	220	0			0		
29						220	0			0		
30						220	0			0		
31						220	0			0		
Mean	0	0	0	0	19.2	225.5	52.0	0	0	214.8	0	0
Ac-Ft	0	0	0	0	1069	13865	3092	0	0	13210	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 31240

TABLE 172

DAILY MEAN DISCHARGE
ELK BAYOU NEAR TULARE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0							
2					0							
3					0							
4					0							
5					0							
6					0							
7					0							
8					0							
9					0							
10					0							
11					0							
12	N	N	N	N	0	N	N	N	N	N	N	N
13	O	O	O	O	0	O	O	O	O	O	O	O
14					0							
15					0							
16	F	F	F	F	0	F	F	F	F	F	F	F
17	L	L	L	L	0.5 E	L	L	L	L	L	L	L
18	O	O	O	O	4.0 E	O	O	O	O	O	O	O
19	W	W	W	W	0 E	W	W	W	W	W	W	W
20					0							
21					0							
22					0							
23					0							
24					0							
25					0							
26					0							
27					0							
28					0							
29												
30												
31												
Mean	0	0	0	0	0.2	0	0	0	0	0	0	0
Ac-Ft.	0	0	0	0	9	0	0	0	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 9

TABLE 173

DAILY ELEVATION
TULARE LAKE

In feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16						LAKE DRY						
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean												
Ac-Ft.												

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 174

DAILY MEAN DISCHARGE
KERN RIVER NEAR BAKERSFIELD

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	960	597	354	316	366	429	466	429	483	1677	509	168
2	963	590	332	316	365	454	473	436	662	1717	511	216
3	707	590	331	315	362	492	531	431	1386	1732	529	236
4	677	597	336	311	360	526	565	436	1354	1688	542	240
5	673	593	336	275	369	549	573	431	1283	1690	557	229
6	774	590	327	205	364	570	575	430	1292	1353	556	201
7	783	530	291	279	349	591	567	439	1317	1797	507	198
8	786	503	297	330	337	592	571	444	1341	1840	497	201
9	791	506	317	381	332	604	569	441	1543	1826	510	189
10	782	497	291	360	335	646	569	438	1640	1727	489	168
11	782	437	266	400	343	687	576	438	1683	808	437	162
12	783	417	278	409	342	684	568	442	1614	686	393	151
13	821	401	289	428	262	634	559	445	1630	636	406	145
14	835	344	287	417	243	632	556	443	1799	683	391	149
15	917	320	293	392	299	652	551	445	1843	684	379	167
16	983	312	290	378	378	705	549	452	1668	681	395	162
17	978	305	290	362	423	727	546	452	1615	675	393	150
18	966	286	289	348	504	736	509	451	1709	630	370	147
19	957	300	295	309	506	744	439	451	1785	608	350	142
20	930	328	299	307	474	791	434	446	1790	565	308	154
21	951	334	289	313	450	790	437	455	1850	607	278	248
22	880	360	295	324	437	782	437	460	1810	619	249	210
23	857	369	311	323	432	743	436	457	1852	633	249	178
24	688	384	311	323	403	696	433	455	1918	682	232	174
25	691	363	311	323	370	653	432	458	1908	651	256	168
26	704	362	313	323	373	567	440	459	1810	574	226	162
27	713	363	313	323	393	492	443	456	1756	545	202	155
28	750	358	306	329	412	476	431	450	1734	509	200	149
29	750	359	300	344		472	430	456	1698	558	178	143
30	687	357	313	362		463	428	459	1633	554	177	144
31	601		341	367		462		461		523	168	
Mean	810	422	306	338	378	614	503	447	1580	973	369	177
Ac-Ft.	49825	25095	18825	20811	20991	37767	29936	27463	94028	59817	22699	10524

E — Estimated MR — No Record

Total Discharge in Acre-Feet 417800

TABLE 175

STREAM FLOW MEASUREMENTS AT MISCELLANEOUS SITES
Measurements of streamflow at points other than gaging stations or at points where flow has not been computed are listed in the following table

Central Valley Area

Stream	Tributary	Location	Measurements		
			Date	Gage Height	Discharge (c.f.s.)
Cache Creek at Rumsey Bridge (S)	Yolo Bypass	NW¼ Sec. 18, T12N, R3W	10-21-58	0.37	10.3
			3-27-59	1.36	156
above Rumsey (S)	Yolo Bypass	SW¼ Sec. 2, T12N, R4W	3-27-59	1.36	142
			9-29-59	8.54	58.9
Clear Lake Water Co. Canal nr Rumsey (S)	Cache Creek	Sec. 12, T12N, R4W	3-27-59	2.04	7.42
Colusa Basin Drain nr College City (R)		NE¼ Sec.4, T13N,R1W	10-10-58	25.46	389
			11-10-58	26.00	604
			12- 4-58	25.30	381
			1-19-59	26.80	496
			2-10-59	24.56	158
			3-13-59	24.86	215
			4-13-59	24.98	285
			4-21-59	23.38	6.10
			5- 8-59	28.73	1513
			6- 5-59	26.42	690
			7-10-59	26.42	679
			7-24-59	26.98	866
			8-10-59	27.78	1147
			9-21-59	28.14	1261
Mill Creek nr Mouth (R)	Sacramento River	NW¼ Sec. 9, T25N, R2W	10- 3-58	3.83	27.6
			10-20-58	4.58	103
			11-24-58	4.60	120
			12- 9-58	4.59	109
			12-29-58	4.77	129
			1- 7-59	5.44	286
			2- 9-59	4.96	163
			3-11-59	5.40	243
			4- 6-59	5.43	233
			5- 7-59	4.78	115
			5-28-59	4.68	103
			6- 9-59	4.60	93.7
			7-10-59	3.09	0.91
			9-10-59	3.05	0.12
			9-25-59	3.68	13.7
Reclamation District 833 nr Gridley (R)	Feather River	NE¼ Sec. 2, T17N, R1E	10- 9-58	14.08	53.1
			10-27-58	13.95	51.4
			11- 2-58	13.54	19.2
			11-26-58	12.51	8.64
			12- 8-58	12.99	10.5
			12-23-58	13.06	9.29
			1-20-59	13.84	24.0
			2- 9-59	11.04	17.8
			3-10-59	11.38	31.8
			3-25-59	11.94	65.6
			4- 9-59	14.08	54.4
			5- 6-59	16.83	117
			6-26-59	16.59	86.9
			7- 7-59	16.70	120
			8- 5-59	16.70	110
			9-22-59	14.73	114
Ridge Cut at Knights Landing (A)	Yolo Bypass	SW¼ Sec. 14, T11N, R2E	1-14-59	27.30	1343
Sacramento River at Red Bluff (R)		SW¼ Sec. 20, T27N, R3W	10- 3-58	5.59	8175
			11- 5-58	5.40	7850
			12-10-58	5.23	7489
			12-12-58	4.98	6795
			12-24-58	4.54	6038
			12-29-58	4.12	5165
			12-31-58	3.98	4958
			1- 6-59	7.40	14370
			1- 9-59	12.64	30890
			1-28-59	13.66	36880
			1-29-59	12.81	32350
			3-23-59	5.21	7326
			4-23-59	5.98	9160
			5-21-59	5.47	8110
			6-24-59	6.12	9760
South Fork Pit River Diversion to West Valley Reservoir (S)		NE¼ Sec. 9, T39N, R14E	2-25-59	2.48	17.7
			3-16-59	2.64	24.7
Chowchilla River nr Raymond (R)	San Joaquin River	SE¼ Sec. 1, T8S, R18E	2-11-59	573.65	1022
			2-17-59	572.14	456
			2-26-59	569.8	65.3
			3-25-59	569.07	30.6
			4-27-59	569.93	83.4
Patterson W.D. Drain nr Patterson (R)	San Joaquin River	SE¼ Sec. 21, T5S, R8E	10-10-58	1.30	0.60
			11-24-58	1.07	0.26
			12- 5-58	0.28	0.24
			12-22-58	0.21	0.14
			1- 5-59	2.22	0.24
			1-19-59	0.19	0.10
			2- 3-59	0.21	0.09
			3- 3-59	0.45	0.59
			3-18-59	0.40	0.42
			4- 2-59	0.58	1.18
			4-17-59	0.35	1.48
			4-30-59	0.35	1.26
			5-15-59	0.32	0.95
			5-29-59	0.31	1.07
			6-12-59	0.34	1.55
			6-26-59	0.36	1.39
			7-10-59	0.37	1.41
			7-24-59	0.45	1.38
			8- 6-59	0.33	0.86
			8-14-59	0.37	1.04
			8-24-59	0.38	1.32
			9- 8-59	0.52	3.21
			9-22-59	0.31	0.72

(A) Referred to Recorder Station "Colusa Basin Drain at Knights Landing"
(R) Recorder Installation
(S) Staff only

TABLE 176

SUMMARY OF WATER UTILIZATION OF SACRAMENTO-SAN JOAQUIN VALLEYS

	Year	Acreage (a)			Diversion Mar-Oct. Acre-Feet	July Average c.s.f.	Gross Duty of Water		Runoff in % of Average (b)
		General	Rice	Total			Ac. Ft. per Acre	Acres per Sec. Ft.	Sacto. R. near Red Bluff
Sacramento River Sacramento to Redding (c)	1950	152800	108500	261300	1761000	5850	6.7	72	72
	1951	162200	140800	303000	1939000	6561	6.4	76	114
	1952	142900	139100	282000	1771000	5897	6.3	77	145
	1953	134900	164600	299500	1986000	6731	6.6	73	121
	1954	139800	184900	324700	2057000	7199	6.3	77	116
	1955	165700	136400	302100	2062000	6706	6.8	71	71
	1956	155600	122600	278200	1816000	6332	6.5	74	166
	1957	165800	106100	271900	1769000	6168	6.5	75	90
	1958	162000	120900	282900	1648000	6151	5.8	83	190
	1959	170400	128100	298500	2054000	6782	6.9	71	85
	Avg. 1950-1959	155200	135200	290400	1886000	6438	6.5	75	117
									Sacto. R. near Red Bluff
Colusa Basin Drain							(e)	(e)	
	1950	8160	11080	19240	172400	556	9.0	54	72
	1951	6908	13640	20550	203700	659	9.9	49	114
	1952	7842	13180	21020	235300	814	11.2	43	145
	1953	6587	17410	24000	254200	902	10.6	46	121
	1954	5280	16990	22270	270500	1002	12.1	40	116
	1955	8670	10970	19640	225000	753	11.5	42	71
	1956	9756	9336	19090	190200	661	10.0	49	166
	1957	11290	7569	18860	169000	566	9.0	54	90
	1958	8989	6763	15750	154300	591	9.8	50	190
	1959	8438	11420	19860	220200	762	11.1	44	85
	Avg. 1950-1959	8199	11840	20040	209500	727	10.5	46	117
									Sacto. R. near Red Bluff
Yolo Bypass East Borrow Pit and Knights Landing Ridge Cut	1950	1646	1925	3571	29250	84	8.2	59	72
	1951	3649	3360	7009	40690	141	5.8	84	114
	1952	3767	540	4307	12180	41	2.8	172	145
	1953	2507	2245	4752	23520	80	4.9	98	121
	1954	3956	2850	6806	44900	192	6.6	74	116
	1955	5114	3087	8201	41400	162	5.0	96	71
	1956	4975	1810	6785	23390	103	3.4	141	166
	1957	6029	1042	7071	22500	104	3.2	153	90
	1958	4337	699	5036	10200	48	2.0	240	190
	1959	4088	979	5067	24510	90	4.8	101	85
	Avg. 1950-1959	4007	1854	5860	27250	104	4.6	106	117
									Feather R. near Oroville
Lower Butte Creek and Butte Slough	1950	7195	1537	8732	50450	187	5.8	84	88
	1951	6984	1702	8686	53420	206	6.2	79	130
	1952	8656	2850	11510	52350	181	4.5	107	182
	1953	6944	2563	9507	49370	218	5.2	94	119
	1954	8173	3883	12060	63770	247	5.3	92	96
	1955	8366	3177	11540	54840	226	4.8	102	57
	1956	8517	2897	11410	50390	192	4.4	110	183
	1957	11020	1810	12830	38630	117	3.0	161	83
	1958	10300	1313	11610	32140	98	2.8	176	160
	1959	10050	1794	11840	43830	153	3.7	131	65
	Avg. 1950-1959	8621	2353	10970	48920	182	4.5	108	116

(a) Prior to 1956 acreage reported for calendar year, 1956 to 1959 acreage reported for period November through October.
(b) Runoff in per cent of normal changed to conform with base period, October 1907 through September 1957.
(c) Excluding municipal diversions, the City of Redding and the City of Sacramento.
(d) Includes water pumped by cooperative plants as part of the supply for acreages included with that shown for Sacramento River, Redding to Sacramento.

TABLE 176

SUMMARY OF WATER UTILIZATION OF SACRAMENTO-SAN JOAQUIN VALLEYS (contd.)

	Year	Acreage (a) General	Acreage (a) Rice	Acreage (a) Total	Diversion Mar.-Oct. Acre-Feet	July Average c.a.f.	Gross Duty of Water Ac. Ft. per Acre	Gross Duty of Water Acres per Sec. Ft.	Runoff in % of Average (b) Feather R. near Oroville
East and West Borrow Pits of Sutter Bypass and Sacramento Slough	1950	11650	4479	16130	89150	329	5.5	88	88
	1951	11120	6114	17230	103200	405	6.0	81	130
	1952	10060	5575	15640	78380	284	5.0	97	182
	1953	11080	7446	18530	109700	440	5.9	82	119
	1954	11420	7993	19410	125300	477	6.5	75	96
	1955	11580	6183	17760	108000	393	6.1	80	57
	1956	11750	4906	16660	94780	369	5.7	85	183
	1957	13760	3706	17470	88220	341	5.0	96	83
	1958	16830	3098	19930	78070	319	3.9	124	160
	1959	14950	4082	19030	114000	420	6.0	81	65
	Avg. 1950 to 1959	12420	5358	17780	98880	378	5.6	87	116
Feather River Mouth to Oroville	1950	34010	41330	75340	662100	2229	8.8	55	88
	1951	31180	56500	87680	727300	2319	8.3	59	130
	1952	30290	57890	88180	727400	2438	8.2	59	182
	1953	29060	64120	93180	791800	2642	8.5	57	119
	1954	28860	64780	93640	757100	2612	8.1	60	96
	1955	34430	47710	82140	733000	2178	8.9	54	57
	1956	32950	43570	76520	706000	2259	9.2	53	183
	1957	37080	36570	73650	644800	2152	8.8	56	83
	1958	35550	42270	77820	645500	2225	8.3	59	160
	1959	39430	45970	85400	759600	2238	8.9	55	65
	Avg. 1950 to 1959	33280	50070	83360	715500	2329	8.6	57	116
									Yuba R. at Smartville
Yuba River Mouth to Smartville	1950	10000	2641	12640	127400	342	10.1	48	98
	1951	9635	3415	13050	110300	313	8.5	57	156
	1952	9803	3603	13410	131800	362	9.8	49	182
	1953	9116	5304	14420	133100	362	9.2	53	112
	1954	8637	6080	14720	140600	448	9.6	51	85
	1955	9102	4692	13790	143100	512	10.4	47	56
	1956	9872	4842	14710	161500	476	11.0	44	175
	1957	9314	4644	13960	161800	493	11.6	42	86
	1958	9574	4608	14180	151500	470	10.7	45	155
	1959	10420	4998	15420	177800	478	11.5	42	55
	Avg. 1950 to 1959	9547	4483	14030	149300	426	10.6	46	116
									American R. at Fair Oaks
American River Mouth to Fair Oaks (c)	1950	680		680	1717	7	2.5	192	101
	1951	1034		1034	2009	9	1.9	250	176
	1952	1006		1006	1676	8	1.7	292	188
	1953	945		945	1543	8	1.6	298	101
	1954	907		907	1199	7	1.3	368	76
	1955	818		818	899	5	1.1	442	60
	1956	906		906	1150	6	1.3	383	177
	1957	979		979	1142	6	1.2	417	82
	1958	778		778	816	4	1.0	463	155
	1959	946		946	1189	10	1.2	405	47
	Avg. 1950 to 1959	900		900	1334	7	1.5	324	116
									Sacto. R. at Sacramento
Sacramento River System: Sacramento River and Tributaries (d)	1950	226100	171500	397600	2893000	9584	7.3	67	83
	1951	232700	225500	458200	3180000	10610	6.9	70	133
	1952	214300	222700	437000	3010000	10020	6.9	71	166
	1953	201100	263700	464800	3349000	11380	7.2	67	117
	1954	207000	287500	494500	3460000	12180	7.0	69	102
	1955	243800	212200	456000	3368000	10940	7.4	66	64
	1956	234300	190000	424300	3043000	10400	7.2	68	174
	1957	255300	161400	416700	2895000	9947	6.9	70	86
	1958	248400	179700	428100	2721000	9906	6.4	76	173
	1959	258700	197300	456100	3385000	10900	7.4	65	70
	Avg. 1950 to 1959	232200	211200	443400	3130000	10590	7.1	69	117

(a) Prior to 1956 acreage reported for calendar year, 1956 to 1959 acreage reported for period November through October.
(b) Runoff in per cent of normal changed to conform with base period, October 1907 through September 1957.
(c) Excluding diversions and acreage of Carmichael Irrigation District.
(d) Excluding municipal diversions, the City of Redding and the City of Sacramento, and the diversion and acreage of Carmichael Irrigation District.

TABLE 176

SUMMARY OF WATER UTILIZATION OF SACRAMENTO-SAN JOAQUIN VALLEYS (contd.)

	Year	Acreage (a) General	Acreage (a) Rice	Acreage (a) Total	Diversion Mar.-Oct. Acre-Feet	July Average c.s.f.	Gross Duty of Water Ac. Ft. per Acre	Gross Duty of Water Acres per Sec. Ft.	Runoff in % of Average (b) San Joaquin R. near Vernalia
Old River Delta Uplands (c)	1950	40230		40230	116300	362	2.9	168	84
	1951	40110		40110	105200	344	2.6	185	130
	1952	38560		38560	94770	334	2.5	198	173
	1953	41260		41260	118800	355	2,9	169	78
	1954	40740		40740	131200	393	3.2	151	77
	1955	41520		41520	130600	405	3.1	154	63
	1956	41660		41660	118600	400	2.8	171	177
	1957	42350		42350	123900	415	2.9	166	78
	1958	37970		37970	97870	369	2.6	189	150
	1959	41550		41550	140700	430	3.4	143	54
	Avg. 1950 to 1959	40600		40600	117800	381	2.9	168	106
									San Joaquin R. near Vernalia
Tom Paine Slough Delta Uplands	1950	5221	364	5585	20420	63	3.7	133	84
	1951	4745	411	5156	22590	71	4.4	111	130
	1952	5213		5213	18820	68	3.6	135	173
	1953	5387		5387	21340	65	4.0	123	78
	1954	5467		5467	22840	73	4.2	116	77
	1955	5518		5518	23020	66	4.2	116	63
	1956	5429		5429	20960	57	3.9	126	177
	1957	5107		5107	21920	68	4.3	113	78
	1958	5201		5201	17290	61	3.3	146	150
	1959	5142		5142	23090	75	4.5	108	54
	Avg. 1950 to 1959	5243	78	5320	21230	66	4.0	122	106
									San Joaquin R. near Vernalia
San Joaquin River Stockton to Vernalis Delta Uplands	1950	26600		26600	84640	277	3.2	153	84
	1951	26610		26610	74880	242	2.8	173	130
	1952	24750		24750	58710	199	2.4	205	173
	1953	27270		27270	85770	295	3.1	155	78
	1954	27360		27360	87550	299	3.2	152	77
	1955	27630		27630	94090	301	3.4	143	63
	1956	27400		27400	74240	266	2.7	179	177
	1957	28370		28370	85730	291	3.0	161	78
	1958	26350		26350	62390	223	2.4	205	150
	1959	28300		28300	94550	304	3.3	145	54
	Avg. 1950 to 1959	27060		27060	80250	270	3.0	164	106
									San Joaquin R. near Vernalia
San Joaquin River Vernalis to Fremont Ford Bridge	1950	48110	390	48500	175100	537	3.6	135	84
	1951	48740	730	49470	172700	571	3.5	139	130
	1952	47390	623	48010	147300	508	3.1	158	173
	1953	51640	1501	53140	205900	673	3.9	125	78
	1954	49990	2479	52470	200900	618	3.8	127	77
	1955	50840	722	51560	193200	595	3.7	130	63
	1956	52030	540	52570	171300	556	3.3	149	177
	1957	52880		52880	193300	666	3.7	133	78
	1958	50020	385	50400	122900	444	2.4	199	150
	1959	53120	482	53600	192600	612	3.6	135	54
	Avg. 1950 to 1959	50480	785	51260	177500	578	3.5	140	106
									Merced R. at Exchequer
Merced River Mouth to Snelling (d)	1950	7912		7912	23880	78	3.0	161	76
	1951	8088		8088	22210	78	2.7	177	129
	1952	7465		7465	18120	64	2.4	200	166
	1953	7431		7431	29700	103	4.0	122	65
	1954	8394		8394	29260	113	3.5	139	71
	1955	8580		8580	30330	99	3.5	137	56
	1956	8069		8069	22880	87	2.8	171	179
	1957	8048		8048	29240	110	3.6	134	69
	1958	7822		7822	21140	84	2.7	180	150
	1959	10230		10230	43350	161	4.2	115	48
	Avg. 1950 to 1959	8204		8204	27010	98	3.3	148	101

(a) Prior to 1956 acreage reported for calendar year, 1956 to 1959 acreage reported for period November through October.
(b) Runoff in per cent of normal changed to conform with base period, October 1907 through September 1957.
(c) Excluding diversions and acreage irrigated by Delta-Mendota Contra Costa Canals.
(d) Excluding diversion and acreage of Merced Irrigation District.

TABLE 176

SUMMARY OF WATER UTILIZATION OF SACRAMENTO-SAN JOAQUIN VALLEYS (contd.)

	Year	Acreage (a) General	Acreage (a) Rice	Acreage (a) Total	Diversion Mar.-Oct. Acre-Feet	July Average c.s.f.	Gross Duty of Water Ac. Ft. per Acre	Gross Duty of Water Acres per Sec. Ft.	Runoff in % of Average (b) Tuolumne R. near La Grange
Tuolumne River Mouth to La Orange Dam (c)	1950	4690		4690	6100	18	1.3	374	86
	1951	4497		4497	4615	14	1.0	474	138
	1952	4788		4788	5075	18	1.1	458	170
	1953	5283	120	5403	11350	34	2.1	231	85
	1954	5758	140	5898	14610	50	2.5	196	80
	1955	6289		6289	14430	45	2.3	212	63
	1956	5979		5979	8369	26	1.4	347	183
	1957	5981		5981	12600	46	2.1	231	79
	1958	5714		5714	8943	30	1.6	310	147
	1959	7214		7214	15820	60	2.2	221	55
	Avg. 1950 to 1959	5619	26	5645	10190	34	1.8	270	109
									Stanislaus R. below Melones
Stanislaus River Mouth to Goodwin Dam (d)	1950	8445		8445	33390	102	4.0	123	97
	1951	8336		8336	34660	99	4.2	117	152
	1952	7769		7769	30240	91	3.9	125	172
	1953	8904		8904	42540	136	4.8	102	87
	1954	9289		9289	44110	129	4.7	102	80
	1955	10040		10040	46090	134	4.6	106	62
	1956	9144		9144	42010	131	4.6	106	169
	1957	10060		10060	47110	148	4.7	104	78
	1958	9582		9582	37970	128	4.0	123	151
	1959	10200		10200	52550	157	5.2	93	53
	Avg. 1950 to 1959	9177		9177	41070	126	4.5	108	110
									San Joaquin R. near Vernalis
San Joaquin River System San Joaquin River and Tributaries Stockton to Fremont Ford Bridge (e)	1950	141200	754	142000	459800	1437	3.2	150	84
	1951	141100	1141	142200	436900	1419	3.1	158	130
	1952	135900	623	136500	373000	1282	2.7	178	173
	1953	147200	1621	148800	515400	1661	3.5	140	78
	1954	147000	2619	149600	530500	1675	3.5	137	77
	1955	150400	722	151100	531800	1645	3.5	138	63
	1956	149700	540	150200	458400	1523	3.1	159	177
	1957	152800		152800	513800	1744	3.4	145	78
	1958	142700	385	143100	368500	1339	2.6	189	150
	1959	155800	482	156200	564700	1799	3.6	135	54
	Avg. 1950 to 1959	146400	889	147300	475300	1552	3.2	152	106
									Sacramento R. and San Joaquin R. to Delta
Combined above Delta Sacramento River and Tributaries San Joaquin River and Tributaries (f)	1950	367300	172200	539500	3353000	11020	6.2	78	85
	1951	373900	226700	600600	3617000	12030	6.0	81	134
	1952	350300	223300	573600	3383000	11310	5.9	82	168
	1953	348300	265300	613600	3864000	13040	6.3	77	106
	1954	354000	290100	644100	3990000	13860	6.2	78	94
	1955	394200	212900	607100	3900000	12580	6.4	76	63
	1956	384000	190500	574500	3501000	11920	6.1	80	175
	1957	408000	161400	569400	3409000	11690	6.0	81	82
	1958	391100	180100	571200	3090000	11240	5.4	90	166
	1959	414500	197800	612300	3950000	12700	6.4	76	66
	Avg. 1950 to 1959	378600	212000	590600	3606000	12100	6.1	80	114

(a) Prior to 1956 acreage reported for calendar year, 1956 to 1959 acreage reported for period November through October.
(b) Runoff in per cent of normal changed to conform with base period, October 1907 through September 1957.
(c) Excluding diversions and acreage of Modesto, Turlock, and Waterford Irrigation District.
(d) Excluding diversions and acreages of South San Joaquin Irrigation District, and Oakdale Irrigation District Main Canals.
(e) Excluding diversions and acreages irrigated by: Delta-Mendota and Contra Costa Canals; Merced, Modesto, Turlock, Waterford, and South San Joaquin Irrigation Districts; and Oakdale Irrigation District Main Canals.
(f) Excluding municipal diversions, the City of Redding and the City of Sacramento, and diversions and acreages irrigated by: Delta-Mendota and Contra Costa Canal; Carmichael, Merced, Modesto, Turlock, Waterford, and South San Joaquin Irrigation Districts; and Oakdale Irrigation District Main Canals.

TABLE 177

AVERAGE MONTHLY DIVERSIONS FROM SACRAMENTO - SAN JOAQUIN VALLEY STREAMS

In per cent of seasonal average

	Period of Record	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
SACRAMENTO VALLEY									
Sacramento River - Sacramento to Redding	1950 to 1959	0.5	9.4	17.6	18.5	20.9	19.4	9.7	3.9
Feather River - Mouth to Oroville	1950 to 1959	0.7	8.1	18.8	19.2	19.9	17.6	9.8	5.4
Yuba River - Mouth to Smartville	1950 to 1959	0.7	7.7	16.6	17.2	19.9	17.1	12.2	8.8
American River - Mouth to Fair Oaks	1950 to 1959	0.7	3.5	9.9	21.6	24.9	19.9	13.4	6.2
DELTA UPLANDS									
Old River	1950 to 1959	3.9	11.3	14.5	18.1	19.8	17.8	10.5	4.1
Tom Paine Slough	1950 to 1959	5.0	10.5	12.8	15.9	19.3	19.4	12.3	4.8
San Joaquin River - Stockton to Vernalis	1950 to 1959	5.1	13.7	12.9	16.3	20.6	17.7	9.7	3.9
SAN JOAQUIN VALLEY									
San Joaquin River - Vernalis to Fremont Ford Bridge	1950 to 1959	5.9	13.5	14.1	16.8	20.0	17.1	9.8	2.7
Merced River - Mouth to Snelling	1950 to 1959	3.2	8.0	12.1	18.2	22.1	19.3	12.2	4.9
Tuolumne River - Mouth to La Grange Dam	1950 to 1959	4.5	9.0	11.9	17.3	20.5	20.5	11.2	5.0
Stanislaus River - Mouth to Goodwin Dam	1950 to 1959	4.5	10.1	13.6	16.8	18.8	18.2	11.9	6.1

TABLE 178

COMPARATIVE MONTHLY DIVERSIONS
SAN JOAQUIN RIVER - DELTA UPLANDS - STOCKTON TO VERNALIS

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1950	5746	13090	12200	11860	17050	13270	7855	3558	84630
1951	279	12240	11480	13350	14860	12650	6840	3181	74880
1952	6	3791	10320	9465	12250	12350	7128	3401	58710
1953	8000	13550	8883	10600	18110	14630	8835	3162	85770
1954	6711	11820	9550	14980	18360	13280	8677	4164	87540
1955	5806	12270	10770	16350	17930	16820	10380	3767	94090
1956	4792	9271	7758	13120	16380	13160	7387	2382	74250
1957	1333	16970	9182	15110	17900	16040	7625	1570	85730
1958	32	1263	10920	10530	13740	14250	8305	3346	62390
1959	8337	15730	12740	15580	18680	15220	5199	3075	94560
Average Acre-Feet	4104	11000	10380	13090	16530	14170	7823	3161	80260
Average c.f.s.	67	185	169	220	269	231	131	52	165
Monthly Diversion in per cent of seasonal	5.1	13.7	12.9	16.3	20.6	17.7	9.7	3.9	

(a) See 1949 Water Supervision Report for prior years.

TABLE 179

COMPARATIVE MONTHLY DIVERSIONS
SAN JOAQUIN RIVER - VERNALIS TO FREMONT FORD BRIDGE

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1950	15120	26340	25420	26240	33030	28230	15750	4963	175100
1951	4051	30310	24320	27240	35080	30420	16900	4333	172700
1952	1296	7960	28040	25640	31270	28600	18860	5647	147300
1953	19240	29190	24060	30960	41370	34340	21610	5175	205900
1954	13920	27820	28120	32620	38000	32290	21500	6587	200900
1955	16990	24520	26000	32700	36570	32160	18910	5308	193200
1956	16100	21900	20310	32030	34200	28500	15030	3232	171300
1957	4900	34790	22250	34600	40940	34480	18560	2782	193300
1958	10	2568	24180	24380	27330	23300	16190	4943	122900
1959	13440	33450	28220	32320	37620	31610	11240	4670	192600
Average Acre-Feet	10510	23880	25090	29870	35540	30390	17460	4764	177500
Average c.f.s.	171	401	409	502	579	495	293	78	365
Monthly Diversion in per cent of seasonal	5.9	13.5	14.1	16.8	20.0	17.1	9.8	2.7	

(a) See 1949 Water Supervision Report for prior years.

TABLE 180

COMPARATIVE MONTHLY DIVERSIONS
MERCED RIVER - MOUTH TO SNELLING

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1950	676	2086	4050	4793	4809	4336	2673	455	23880
1951	161	1590	3347	4572	4825	4298	2678	739	22210
1952	37	242	2370	3177	3962	4402	2833	1098	18120
1953	2482	3687	3293	3928	6343	4975	3310	1681	29700
1954	1115	2515	3296	4850	6950	4491	3677	2361	29260
1955	985	2814	3379	5296	6086	6044	4374	1356	30330
1956	1102	1317	1778	4479	5338	4397	3374	1097	22880
1957	400	2746	2947	5391	6780	6020	3700	1256	29240
1958	15	217	2976	4010	5166	4723	2642	1386	21140
1959	1864	4652	5586	8929	9884	8818	3806	1810	45350
Average Acre-Feet	884	2186	3302	4942	6014	5250	3307	1324	27210
Average c.f.s.	14	37	54	83	98	86	56	22	56
Monthly Diversion in per cent of seasonal	3.2	8.0	12.1	18.2	22.1	19.3	12.2	4.9	

(a) See 1949 Water Supervision Report for prior years.

TABLE 181

COMPARATIVE MONTHLY DIVERSIONS
TUOLUMNE RIVER - MOUTH TO LA GRANGE DAM

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1950	305	588	970	1107	1121	1170	580	259	6100
1951	154	477	586	979	866	890	503	160	4615
1952	7	139	692	945	1077	1073	687	455	5075
1953	1040	1124	1444	1804	2062	2053	1358	468	11350
1954	594	1195	2204	2326	3082	2861	1573	773	14610
1955	1266	1335	1394	2427	2740	2794	1599	879	14430
1956	439	420	1026	1577	1592	1694	1231	390	8369
1957	186	2148	1153	2292	2810	2521	1171	316	12600
1958	22	233	958	1353	1862	2375	1504	636	8943
1959	608	1502	1689	2830	3680	3511	1217	781	15818
Average Acre-Feet	462	916	1212	1764	2089	2094	1142	512	10190
Average c.f.s.	8	15	20	30	34	34	19	8	21
Monthly Diversion in per cent of seasonal	4.5	9.0	11.9	17.3	20.5	20.5	11.2	5.0	

(a) See 1949 Water Supervision Report for prior years.

TABLE 182

COMPARATIVE MONTHLY DIVERSIONS
STANISLAUS RIVER - MOUTH TO GOODWIN DAM

In acre-feet

Year(a)	Mar.	Aprl	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1950	1313	3240	5385	5493	6266	6254	4055	1382	33390
1951	1163	3733	5043	6101	6076	6333	4240	1970	34660
1952	0	1872	5063	4746	5604	5963	4076	2921	30240
1953	2939	4416	5247	6266	8375	7241	5005	3056	42540
1954	1732	5372	6032	6724	7949	7914	5419	2969	44110
1955	2812	3877	5658	8105	8267	8757	5413	3197	46090
1956	2682	3234	4792	7824	8039	7718	5167	2554	42010
1957	1911	5939	5577	9000	9084	8849	5839	914	47110
1958	5	2573	5866	6465	7856	7078	5341	2785	37970
1959	3763	7349	7119	8449	9623	8802	4346	3100	52550
Average Acre-Feet	1832	4160	5578	6917	7714	7491	4890	2485	41070
Average c.f.s.	30	70	90	116	126	122	82	41	85
Monthly Diversion in per cent of seasonal	4.5	10.1	13.6	16.8	18.8	18.2	11.9	6.1	

(a) See 1949 Water Supervision Report for prior years.

TABLE 183

COMPARATIVE MONTHLY DIVERSIONS
OLD RIVER(*) - DELTA UPLANDS

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1950	6009	15320	18830	18630	22270	19020	12010	4258	116300
1951	202	9746	18250	21020	21130	19780	11330	3706	105200
1952	3	2613	16900	19370	20560	18570	10760	5992	94770
1953	11190	16170	15310	17470	21800	19670	12690	4446	118700
1954	6164	17970	19950	22630	24150	19950	13160	7271	131200
1955	4536	16160	16800	24520	24120	23040	15510	5863	130500
1956	5840	10620	15920	23340	24620	22060	12210	3982	118600
1957	2377	20340	14000	22920	25490	23110	13430	2280	123900
1958	0	1810	15060	19480	22720	20810	12960	5034	97870
1959	9940	22980	19660	24240	26440	23150	9197	5242	140800
Average Acre-Feet	4626	13370	17070	21360	23330	20920	12330	4807	117800
Average c.f.s.	75	225	278	359	380	341	207	78	242
Monthly Diversion in per cent of seasonal	3.9	11.3	14.5	18.1	19.8	17.8	10.5	4.1	

(*) Excluding diversions by Delta-Mendota and Contra Costa Canals.
(a) See 1949 Water Supervision Report for prior years.

TABLE 184

COMPARATIVE MONTHLY DIVERSIONS
TOM PAINE SLOUGH - DELTA UPLANDS

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1950	737	2286	3081	3163	3860	3542	2601	1147	20420
1951	81	2321	3434	3581	4371	4653	3261	886	22590
1952	27	1309	3639	2766	4198	3658	2253	972	18820
1953	2138	2674	1944	3019	3967	3973	2651	972	21340
1954	1394	2711	2588	3627	4515	4155	2477	1371	22840
1955	1290	2139	2625	3785	3925	4723	3320	1217	23020
1956	1686	1563	2168	3671	3532	4048	2881	1415	20960
1957	836	3459	1674	3661	4205	4695	2581	806	21920
1958	0	668	2968	2746	3774	4135	2320	683	17290
1959	2348	3181	3064	3813	4642	3578	1696	766	23090
Average Acre-Feet	1054	2231	2718	3383	4099	4116	2604	1024	21230
Average c.f.s.	17	37	44	57	67	67	44	17	44
Monthly Diversion in per cent of seasonal	5.0	10.5	12.8	15.9	19.3	19.4	12.3	4.8	

(a) See 1949 Water Supervision Report for prior years.

TABLE 185

COMPARATIVE MONTHLY DIVERSIONS
SACRAMENTO RIVER - SACRAMENTO TO REDDING

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1950	3072	187700	336800	321300	365500	333200	172900	73770	1794000
1951	6356	252700	303000	381000	409100	373900	177300	69990	1973000
1952	2469	110000	319600	339600	368100	370300	213300	81220	1805000
1953	14100	232600	317200	330700	419900	390300	226000	87430	2018000
1954	2935	96490	402200	407500	448900	409600	242000	81310	2091000
1955	30840	247800	360100	378200	417900	395700	183400	81860	2096000
1956	13410	157400	307100	350200	395300	369700	175700	82770	1852000
1957	3505	199800	311500	341100	385800	357100	180400	25200	1804000
1958	2682	26590	346800	331600	384200	357900	149400	85230	1684000
1959	24300	298200	371300	383400	416100	375800	144600	87800	2102000
Average Acre-Feet	10370	180900	337600	356500	401100	373300	186500	75700	1922000
Average c.f.s.	169	3039	5503	5989	6538	6085	3133	1234	3955
Monthly Diversion in per cent of seasonal	.5	9.4	17.6	18.5	20.9	19.4	9.7	3.9	

(a) See 1949 Water Supervision Report for prior years.

TABLE 186

COMPARATIVE MONTHLY DIVERSIONS
FEATHER RIVER - MOUTH TO OROVILLE

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1950	164	35170	138400	134100	137000	114000	65200	38080	662100
1951	18	94370	131400	141600	142600	124000	60440	32880	727300
1952	0	29180	131900	142300	149900	140100	91830	42180	727400
1953	9443	68610	143800	145400	162400	139700	83990	38430	791800
1954	0	14830	140900	155700	160600	142000	94980	48160	757200
1955	7754	92380	139700	140100	134000	118200	61150	39740	733000
1956	12590	65670	125400	128700	138900	126300	67260	41180	706000
1957	5221	63590	125000	123400	132300	115200	61390	18610	644700
1958	0	12690	134500	127800	136800	125200	59340	49140	645500
1959	17260	107800	139600	138000	137300	121800	55070	42770	759600
Average Acre-Feet	5245	58430	135100	137700	143200	126600	70060	39120	715500
Average c.f.s.	85	982	2202	2313	2334	2064	1177	638	1472
Monthly Diversion in per cent of seasonal	7	8.2	18.9	19.2	20.0	17.7	9.8	5.5	

(a) See 1949 Water Supervision Report for prior years.

TABLE 187

COMPARATIVE MONTHLY DIVERSIONS
YUBA RIVER - MOUTH TO SMARTVILLE

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1950	0	7306	22080	20740	21020	20370	19400	16460	127400
1951	0	13220	20510	19880	19270	17760	12480	7202	110300
1952	0	5959	22830	22540	22230	22620	20060	15580	131800
1953	2	10930	23350	23370	22270	22460	19740	10990	133100
1954	15	0	23630	26960	27570	26510	21090	14780	140600
1955	926	13520	20780	27270	31460	26820	14130	8246	143200
1956	959	18110	26570	26730	29240	27750	18280	13860	161500
1957	1895	15500	25340	29200	30300	29780	18670	11110	161800
1958	1090	4560	28100	25970	28900	27930	16510	18440	151500
1959	5933	23850	30550	29770	29330	27770	18520	12080	177800
Average Acre-Feet	1082	11300	24340	25240	26160	24980	17890	12870	143900
Average c.f.s.	18	190	397	424	426	407	301	210	296
Monthly Diversion in per cent of seasonal	.8	7.9	16.9	17.5	18.2	17.4	12.4	8.9	

(a) See 1949 Water Supervision Report for prior years.

TABLE 188

COMPARATIVE MONTHLY DIVERSIONS
AMERICAN RIVER - MOUTH TO FAIR OAKS

In acre-feet

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1950	9	128	546	1096	1110	819	584	307	4599
1951	4	52	450	1194	1297	1404	829	217	5447
1952	0	20	439	824	1073	810	583	204	3953
1953	62	117	227	936	1386	1100	706	328	4862
1954	20	262	671	1597	1927	1239	1092	446	7254
1955	25	120	264	1094	1278	998	642	290	4711
1956	31	238	564	1428	1683	1405	945	467	6761
1957	43	367	536	1624	1825	1425	821	169	6810
1958	0	161	941	1156	1486	1416	1094	686	6940
1959	205	639	1226	1859	1751	1199	654	548	8081
Average Acre-Feet	40	210	586	1281	1482	1182	795	366	5942
Average c.f.s.	1	4	10	22	24	19	13	6	12
Monthly Diversion in per cent of seasonal	.7	3.5	9.9	21.6	24.9	19.9	13.4	6.2	

(a) See 1949 Water Supervision Report for prior years.

TABLE 189

COMPARATIVE SEASONAL DIVERSIONS AND ACREAGES IRRIGATED* - SACRAMENTO RIVER

Year	River Reach							
	Sacramento to Verona	Verona to Knights Ldg.	Knights Ldg. to Wilkins Slu	Wilkins Slu to Colusa	Colusa to Butte City	Butte City to Red Bluff	Red Bluff to Redding	Total Sacramento to Redding
1950 Seasonal diversion acre-feet	158600	60220	186200	370100	87250	751500	180300	1794000
Average cubic feet per second	326	124	383	762	180	1546	371	3692
Acreage irrigated - general	15280	4936	12710	39300	11160	50540	18840	152800
Acreage irrigated - rice	10900	5274	13360	26760	9107	43080	0	108500
Acre-feet per acre (a)	4.9	5.9	7.1	5.6	4.3	8.0	9.4	6.7
1951 Seasonal diversion acre-feet	169100	77770	206200	400600	116600	830300	172800	1973000
Average cubic feet per second	348	160	424	824	240	1709	356	4060
Acreage irrigated - general	19520	4905	15150	41100	10310	51390	19860	162200
Acreage irrigated - rice	16660	3434	15060	32820	14240	58610	0	140800
Acre-feet per acre (a)	3.8	9.3	6.8	5.4	4.7	7.5	8.5	6.4
1952 Seasonal diversion acre-feet	132300	66510	158500	410800	102800	754800	179000	1805000
Average cubic feet per second	272	137	326	845	212	1553	368	3714
Acreage irrigated - general	14610	5186	12330	33350	10310	46690	20470	142900
Acreage irrigated - rice	11550	6761	12620	35770	15310	57040	0	139100
Acre-feet per acre (a)	3.9	5.6	6.4	5.9	4.0	7.3	8.6	6.3
1953 Seasonal diversion acre-feet	161600	66980	187600	433400	135100	861700	171800	2018000
Average cubic feet per second	333	138	386	892	278	1773	353	4153
Acreage irrigated - general	14420	3606	12420	29780	10840	41820	22020	134900
Acreage irrigated - rice	13380	6836	14050	37300	19080	73960	0	164600
Acre-feet per acre (a)	4.8	6.4	7.1	6.5	4.5	7.4	7.7	6.6
1954 Seasonal diversion acre-feet	186300	87880	191600	469500	139800	831300	184700	2091000
Average cubic feet per second	383	181	394	966	288	1710	380	4303
Acreage irrigated - general	13160	5394	14450	34670	10710	38110	23310	139800
Acreage irrigated - rice	16530	9840	14630	40090	19640	84200	0	184900
Acre-feet per acre (a)	5.2	5.8	6.6	6.3	4.6	6.8	7.8	6.3
1955 Seasonal diversion acre-feet	183100	77070	196300	426500	131000	881000	200700	2096000
Average cubic feet per second	377	159	404	878	270	1813	413	4313
Acreage irrigated - general	16760	7471	17800	42320	13350	44000	24020	165700
Acreage irrigated - rice	12340	6077	12970	31780	14160	59050	0	136400
Acre-feet per acre (a)	5.2	5.7	6.4	5.8	4.8	8.6	8.2	6.8
1956 Seasonal diversion acre-feet	149400	60910	149300	362900	111400	817000	200800	1852000
Average cubic feet per second	307	125	307	747	229	1681	413	3811
Acreage irrigated - general	17290	7475	13360	37530	12830	43000	24080	155600
Acreage irrigated - rice	10790	5323	10220	28010	13340	54950	0	122600
Acre-feet per acre (a)	4.2	4.8	6.3	5.5	4.3	8.3	8.2	6.5
1957 Seasonal diversion acre-feet	135400	64150	156200	358600	104000	807000	179000	1804000
Average cubic feet per second	279	132	321	738	214	1661	368	3712
Acreage irrigated - general	14780	5632	18510	40060	14480	48220	24070	165800
Acreage irrigated - rice	7225	5771	10210	24770	10210	47890	0	106100
Acre-feet per acre (a)	4.7	5.6	5.4	5.5	4.2	8.4	7.3	6.5
1958 Seasonal diversion acre-feet	122700	71190	144000	365700	92320	706800	181800	1685000
Average cubic feet per second	252	146	296	753	190	1454	374	3467
Acreage irrigated - general	15140	8085	16180	40130	14920	43490	24040	162000
Acreage irrigated - rice	9889	6773	11100	30210	11210	51670	0	120900
Acre-feet per acre (a)	3.6	4.8	5.3	5.2	3.5	7.4	7.4	5.8
1959 Seasonal diversion acre-feet	161000	87000	186400	411000	125000	940600	190600	2102000
Average cubic feet per second	331	179	384	846	257	1936	392	4326
Acreage irrigated - general	16760	8042	15800	40990	14120	50400	24310	170400
Acreage irrigated - rice	8821	7790	12240	30810	12740	55700	0	128100
Acre-feet per acre (a)	4.6	5.5	6.6	5.7	4.7	8.9	7.7	6.9
Average 1950-1959								
Seasonal diversion acre-feet	156000	71960	176200	400900	114500	818200	184200	1922000
Average cubic feet per second	321	148	363	825	236	1684	379	3955
Acreage irrigated - general	15770	6073	14870	37920	12300	45770	22500	155200
Acreage irrigated - rice	11810	6388	12650	31830	13900	58610	0	135200
Acre-feet per acre (a)	4.5	5.8	6.4	5.7	4.4	7.8	8.0	6.5
Per cent of total diversion	8.1	3.7	9.2	20.9	6.0	42.6	9.6	

* Diversion data are for the diversion season - March through October.
(a) Excluding such diversions for municipal use as the City of Sacramento and the City of Redding.

TABLE 190

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Sacramento to Verona)

November 1958 through October 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct.		General	Rice
--TOWER BRIDGE - SACRAMENTO--	0.0																
--GAGING STATION - SACRAMENTO RIVER AT SACRAMENTO--	0.6L																
City of Sacramento	0.8L	3-18" 2-20" 2-24"	2660	2530	2270	2050	2740	3580	4340	5260	5750	5400	4120	3550	44250	Municipal	
--AMERICAN RIVER--	1.1L																
--BACK BORROW PIT RECLAMATION DISTRICT 1000--	1.3L																
American Home Company	1.45R	1-8"						60	34	49	104	50	15		312	130	
--RECLAMATION DISTRICT 1000 DRAIN (SECOND BANNON SLOUGH)--	2.1L																
Elmer F. Christophel	2.15L	1-8"						36	13	34	38	20	11		152	34	
D. D. Parr	3.15L	1-6"							12	18	10				40	28	
Rose Orchard, Incorporated	3.55R	1-16"						73	101	160	86	63	28	52	563	a 170	
M. Owyang	4.0R	1-10"							82	8	66	62			218	60	
--GAGING STATION - SACRAMENTO RIVER AT SACRAMENTO WEIR--	4.04																
--GAGING STATION - SACRAMENTO RIVER OPPOSITE SACRAMENTO WEIR--	4.2																
Reese and Greer	4.65R	1-7"						1	13	52	34	8			108	58	
George W. Reed	5.05R	1-12"					58	155	22	217	148	96			696	90	
Mary S. Seydel Estate	5.25R	1-8"					56	103	86	188	140	80			653	96	
A. R. Merkley	5.3R	1-6"							21	13	8	24	22		88	26	
Lucy Casselman	5.5R	1-6"							16	40	18				74	a 47	
Frank and Ruth Lang (b)	5.55R	1-8"						NO DIVERSION									
Riverside Mutual Water Company	6.1L	2-18"					37	1020	1020	1220	1600	1180	573	104	6754	1725	
--RECLAMATION DISTRICT 1000 DRAIN 3--	6.65L																
Fred C. Jones	7.5L	1-8"						10	44	60	70	19			203	100	
A. Marty and C. Inderkum	7.7R	1-8"						90	113	173	145	39			560	c 210	
Candido Rosa	7.8L	1-10"						39	45	32	26	15	11		168	98	
E. O. Willey	7.9L	1-10"						4	71	68	80	62	22		307	129	
A. Marty and C. Inderkum	8.25R	d						PLANT REMOVED									
A. Marty and C. Inderkum	8.3R	d 2-8"						44	101	108	116	46			c 415	90	
Pearl Blauth	8.5R	1-7"						PLANT REMOVED									
Fong Shee Farm	9.3L	1-10"						69	143	201	198	69	46		726	240	
Henry Amen and E. C. Peabody	9.35R	1-14"					64	76	136	255	280	173			984	e 358	
Fred C. Jones	9.8L	1-8"						13	3	26	32	11			85	30	
Carl Casselman	9.9R	1-12"						NO DIVERSION									
Lloyd M. Robbins	10.25L	1-14"						40	69	179	105	119	39		551	559	
Thomas M. Erwin	10.65R	1-12"					14	58	85	107	186	78			528	191	
Edward Russell	10.75L	1-12"							131	128	122	42			423	115	
W. A. Ten Eyck	11.1R	1-12"						32	120	301	358	415	168	33	1427	a 247	
--ELKHORN FERRY--	11.9																
Woodland Farms, Incorporated	12.0R	4-36"	1990	1180	91			7650	11000	10800	13400	11000	590	1470	59170	f,g 4765	f,h 5704
Thomas O'Connor Estate	12.5R	1-12"							69	69	176	109			423	143	
William Plumb, Jr.	12.7R	1-6"							65	52	45	7			169	78	
Lewis Thornton	12.95L	1-4"						1	1	4	3	2	4		15	4	
S. C. Farms, Incorporated	13.1R	1-12"							36	57	130	42	15		280	i 230	
S. C. Farms, Incorporated	13.25R	1-12"	18	7	45	52	86	136	104	138	61	34			681	i	
Elkhorn Mutual Water Company	14.1L	1-24" 1-30"					120	1600	1800	2430	2730	2570	1260	471	12980	j 2704	j 40
Joseph Veress	14.25R	1-14"						39	240	305	254	236	119		1193	210	
A. Bianchi	15.1L	1-4"									1				1	3	
W. F. Becker	15.1R	1-16"						NO DIVERSION									
Natomas Central Mutual Water Company	16.0L	1-24" 2-32" 2-38"						5330	6330	5490	6640	5980	2260	289	j 32320	k 1788	k 2977
Hershey Estate	16.27R	1-20"							209		270				479	200	
Sacramento River Ranch	16.62R	1-14"							82	363	367	588	174		1574	300	
Sacramento River Ranch	17.0R	1-14"						NO DIVERSION									
Frank and Ruth Lang	17.4R	1-16"							136	57		193			386	110	
Jose Alves and Sons	17.75R	1-16"						NO DIVERSION									
Jose Alves and Sons	18.0R	1-20"					40	237	165	501	806	406	95		2250	773	
N. C. Lauppe	18.2L	2-10"						44	88	143	90	76	63		m 504	390	

TABLE 190

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Sacramento to Verona) (continued)

November 1958 through October 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June	July	Aug	Sept	Oct		General	Rice
Burton N. Lauppe	18.45L	1-14"							58	79	51	52			240	m 200	
E. L. Kerns	18.7L	1-12"						52	195	188	206	210	98		n 949	30	a 100
Layton Knaggs	18.7R	1-24"						NO DIVERSION									
SACRAMENTO TO VERONA																	
Total			4668	3717	2406	2102	3215	20590	27400	29570	34950	29580	9733	5969	173900	16760	8821
Average cubic feet per second			78	60	39	38	52	346	446	497	568	481	164	97	240		
Monthly use in percent of annual			2.7	2.1	1.4	1.2	1.9	11.8	15.8	17.0	20.1	17.0	5.6	3.4			

a This acreage also received an undetermined amount of well water.
b Formerly listed as A. A. Casselman.
c 115 acres listed for Mile 7.7R also received an undetermined amount of water from Mile 8.3R.
d One 8" unit formerly listed at Mile 8.25R was moved to Mile 8.3R in 1959.
e Includes 218 acres of Amen lands and 140 acres of Peabody lands.
f This acreage also received 2192 acre-feet of water from Willow Slough.
g Includes 140 acres outside of Woodland Farms, Incorporated and 555 acres of duck club lands.
h Includes 525 acres outside of Woodland Farms, Incorporated and 35 acres reused for duck club lands.
i Combined acreage for Miles 13.1R and 13.25R.
j 40 Acres of rice and 62 acres of general crops listed for Mile 14.1L were irrigated by 3986 acre-feet of water from Mile 16.0L.
k This acreage also received an undetermined amount of controlled drainage water.
m 80 acres listed for Mile 18.45L also received an undetermined amount of water from Mile 18.2L.
n 40 acres of rice listed for Mile 19.6L (0.05S) also received an undetermined amount of water from Mile 18.7L for flooding only.

TABLE 191

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Verona to Knights Landing)

November 1958 through October 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct.		General	Rice
--GAGING STATION - SACRAMENTO RIVER AT VERONA--	19.6L																
--CROSS CANAL RECLAMATION DISTRICTS 1000 and 1001--	19.6L																
Arthur Brown	*(0.05S)	1-10"						109	187	151	172	211	88	42	960	194	a 40
Natomas Central Mutual Water Company	*(1.0S)	1-24" 1-36"	65					1870	3040	3690	3960	3640	1140	192	17600	225	1428
Natomas Central Mutual Water Company	*(2.0S)	1-20" 2-24"						2640	5840	4150	5320	6470	2950		27370	2526	3864
B. J. Ukropina	*(3.3N)	2-24"						582	1450	613	1230	1330	349		5554	b,c 935	b,c 810
B. J. Ukropina	*(3.35N)	1-16"						335	935	801	857	908	315		4151	c	c
Roy C. Osterli	*(3.35N)	1-14"						PLANT REMOVED									
Roy C. Osterli and Harlan Van Dyke (d)	*(3.45N)	e 1-14" 1-36"						860	2020	1880	2540	2460	370		10130	120	868
--FEATHER RIVER--	20.9L																
--SACRAMENTO SLOUGH--	21.2L																
Sacramento River Ranch	21.5R	1-16"						1			102				103	80	
Roy Michelotti	22.1R	1-10"							39	145	141	73	101		499	110	
C. Fred Holmes (f)	22.2L	1-14"								167	1				168	275	
Sacramento River Ranch	27.5R	1-24"						NO DIVERSION									
--GAGING STATION - SACRAMENTO RIVER AT FREMONT WEIR, EAST END--	22.58R																
A. F. Johnston	26.8L	1-16"								79	16				95	185	
Anthony Furlan	26.8L	1-16"								44	3				47	69	
--GAGING STATION - SACRAMENTO RIVER AT FREMONT WEIR, WEST END--	27.9R																
Lowell Edson	g 28.1R(0.8)	1-5"							12	48	59				119	200	
Hershey Estate	g 28.1R(1.3)	1-18"						39	48	68	22	23	24	3	227	47	
Gus Inglin	g 28.1R(2.4	1-12"						10		17	14	35	16	2	94	20	
Anthony Furlan	28.2L	1-12"								42	13				55	69	
Gus Inglin	28.2R	1-6"	1								8	2			11	8	
Ralph White	28.6L	1-8"								49		44			93	47	
Hershey Estate	29.0R	1-12" 2-16"							170		130				300	60	
Russell Brothers	29.2R	1-12"								107	65	72	11		255	165	
Sebastian Yturralde	29.9L	1-12"						NO DIVERSION									
Leo Giovanetti	30.2L	1-6"						13	10	15	13	20	9	8	88	36	
Anthony Furlan	30.5L	1-14"							44	54	31	30			159	170	
M. R. Richardson	30.7R	1-10"								25	5	61	6		97	45	
Albert Nusz	30.75R	1-6"							11	17	12	19	6		65	20	
Alice E. West	30.9L	1-6"								54	34	30	13		131	55	
A. C. Huston, Jr. and Mrs. E. Huston	31.5R	1-12"							165	141	179	163	25		673	148	

TABLE 191

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Verona to Knights Landing) (continued)

November 1958 through October 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet	Acreage Irrigated	
			Nov	Dec	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept.	Oct		General	Rice
M. R. Richardson	31.75R	2-14"								70	120	118	38		346	18[illegible]	
M. Alonso	31.8L	1-6"						NO DIVERSION									
Sutter Mutual Water Company (Portuguese Bend)	32.0L	1-20" 2-24"		548				1890	2630	2820	2580	2460	1170		14100	1231	[illegible]
J. F. Waters and E. Purlan	32.5L	1-12"							37	18	61	23	14		153	70	
Collier Brothers	32.5R	1-10"							5	13	120	43	14		195	100	
W. H. Zeigler and N. Carlson	33.2L	2-10" 1-12"						203	565	440	634	438	212		2490	190	15[illegible]
J. G. Knox	33.35L	1-10" 1-12"								43	143	118			304	165	
Clarence DuBois	33.5R	1-14"								153	129	152	25		459	120	
P.K., G. J., and W. N. Leiser and L. J. Mansager	33.75L	1-14"								155	92	88	6		341	140	
Neil Wilson	33.85R	1-4" 1-6"	9	2			4	16	42	28	27	31	14	24	197	32	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	33.95																
VERONA TO KNIGHTS LANDING Total Average cubic feet per second Monthly use in per cent of annual			75 1 0.1	550 9 0.[illegible]	0 0 0.0	0 0 0.0	4 0 0.0	8568 144 9.8	17250 281 19.7	16100 271 18.4	18830 306 21.5	19060 310 21.8	6916 116 7.9	271 4 0.[illegible]	87630 121	8042	7790

* Mile 19.6L Cross Canal. Distance from Sacramento River and bank are shown in parentheses.
a 40 acres of rice listed for Mile *(0.05S) also received an undetermined amount of water from Mile 18.7L for flooding only.
b This acreage also received an undetermined amount of well water.
c Combined acreage for Miles *(3.3N) and *(3.35N).
d Formerly listed as Roy C. Osterli, Harlan Van Dyke and Orlan Van Dyke.
e The 14" unit was installed in 1959.
f New Installation in 1959.
g Plant is located on Grays Bend which is an old channel of the Sacramento River. Water in the channel is derived from seepage and a gated pipe to the Sacramento River. Distance from the river is shown in parentheses.

TABLE 192

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Knights Landing to Wilkins Slough)

November 1958 through October 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec	Jan	Feb	Mar	Apr.	May	June	July	Aug	Sept	Oct		General	Rice
--GAGING STATION - SACRAMENTO RIVER AT KNIGHTS LANDING--	34.0L																
--KNIGHTS LANDING BRIDGE--	34.1																
--COLUSA BASIN DRAIN--	34.15R																
E. E. Nuttall	34.15R (0.2)	1-6"						2	18	10				1	31	20	
River Farms Company	34.5R	1-16" 1-20" 1-24"						4420	4500	4050	4190	3530	63		20750	a 1831	a [illegible]
Wallace Ernst and A. Johnson	34.85L	1-8" b 1-12"								89		95	6		190	98	
Walter Raymond	35.2L	1-12"						48	32		68				148	72	
Johnson and Anderson	35.8L	1-10"								51	9	35			95	72	
J. Goffitzer	35.85L	1-6"							12	13					25	12	
Frank Rossi	36.2L	1-12" 1-14"						110	335	359	346	405	128		1683	c 204	c 87
Earl H. Gray	36.45L	d 1-12"								123	32	127			282	60	
--RECLAMATION DISTRICT 787 DRAINAGE PLANT--	37.0R																
Albert Nuttall	37.2L	1-14"						49	62		62	37			210	95	
Maybelle J. Bundock	37.75L	1-8"							32	42	28	25			127	100	
Robert and Eugene Reel (e)	38.4L	1-10"							29		30	11			70	50	
C. L. Reel	38.8L	1-10"							74		79				153	110	
C. L. Reel and Sons (f)	39.4L	1-12"						NO DIVERSION									
C. L. Reel and Sons (f)	39.8L	1-10"						NO DIVERSION									
William Duffy, Jr.	39.9L	1-8"								28		8	11		47	24	
Sutter Mutual Water Company (State Ranch Band)	40.6L	2-24" 1-36"	32					3840	5820	5140	5990	5960	1580		28360	2512	2375
River Farms Company	41.0R	1-14" 1-16"						220	428	672	974	693	21		3008	251	
Buell Ranch	41.0L	1-6"						NO DIVERSION									
Buell Hanch (B. E. Dean)	42.2L	1-6"						NO DIVERSION									
Mrs. N. Lorenzetti	42.3L	1-8"								63		57			120	g 65	
El Dorado Ranch	42.3R	1-14" 1-16"						605	1200	811	1580	610	107		4913	778	116
El Dorado Ranch	43.1R	1-12"						NO DIVERSION									

TABLE 192

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Knights Landing to Wilkins Slough) (continued)

November 1958 through October 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June	July	Aug	Sept.	Oct.		General	Rice
Reclamation District No. 2047	43.1R	3-50"						8040	8680	8650	10100	8380	1340		h 45190	i 1125	i 3731
Kramer Ranch	43.1L	1-12"							161	15		74			250	108	
Bill Erdman	43.4R	1-10"						NO DIVERSION									
--RECLAMATION DISTRICT 108 DRAINAGE PLANT--	44.0R																
John Clauss	44.2L	1-18"						413	928	876	996	1030	427		4670	j 100	j 170
John Clauss	45.6L	1-14"						NO DIVERSION									
--GAGING STATION - SACRAMENTO RIVER ABOVE RECLAMATION DISTRICT 108 DRAIN PLANT--	46.4																
John Clauss	46.45L	1-16"						503	1060	1100	1130	1140	541		5474	j	j
J. R. Wenle	46.5L	1-14" 1-20"							306	65	333	80			m 784	192	
Mary Hiatt Properties, Inc.	48.7L	2-22"						56	1290	1100	1080	947	373		4846	559	125
G. J. Hiatt	49.0L	1-14"						145	23	238	52	49			507	n 260	n 90
G. J. Hiatt	49.7L	1-14"						54	285	334	308	324	68		1373	n	n
Reclamation District 108 (Tyndall Mound)	51.1R	2-24" 1-36"					350	3090	5740	5600	5700	5890	790		27160	782	1867
William Crawford (p)	51.2L	2-16"						165	707	133	361				1366	480	
Fritz Erdman	51.9R	1-12"									184	158			342	100	
Thomas Nelson	52.0L	1-16"								111	201	298	11		621	280	
George Van Ruiten (q)	52.3L	1-10"						NO DIVERSION									
George Van Ruiten	52.9L	r 1-12"									118	151	15		284	110	
Reclamation District 108 (Nowell Point)	53.8R	1-14" 1-20" 1-36"					27	1070	1070	965	991	431	185	18	4757	1331	
George Van Ruiten	53.9L	s 1-14"							152	151	177	101			581	300	
Broomieside Farms	55.1L	t 1-26"						5	206	171	63				445	215	
Broomieside Farms	56.3L	1-16"						NO DIVERSION									
Reclamation District 108 (Boyer Bend)	56.4R	1-12" 1-18" 2-22" 1-36"		126				730	478	781	799	596	290	130	3930	1299	
Jacob Miller	56.65R	1-12"						NO DIVERSION									
Broomieside Farms	56.95L	1-20"	63	73				438	42	328	505	387		78	1914	u 432	
L. M. Miller	57.0R	1-10"						NO DIVERSION									
William Crawford	57.25L	1-24" 1-30"						1450	2130	1830	1950	2050	517		9927		v 940
Clifton Lamb (w)	57.5L	1-16"						65	652	636	667	672	308		3000		150
Maud Neilson (x)	58.3L	1-14"					26	23	91	96	124	109	18		487	233	
Alex Grant	58.9L	1-16"						NO DIVERSION									
Reclamation District 108 (South Steiner Bend)	59.15R	1-10" 1-16"						140	214	359	187	84			984	415	
Lamb Brothers	59.8L	1-14"						NO DIVERSION									
W. A. Larner	60.4L	1-14" 1-16"						332	1450	795	772	688	284	13	4334	402	223
L. A. Butler	60.5L	1-12"							24	237	185				446	211	
Reclamation District 108 (North Steiner Bend)	61.3R	1-16"						NO DIVERSION									
Richard Moore	61.5R	1-12"						NO DIVERSION									
L. A. Butler	61.8L	1-12"								64	60				124	91	
Wayne Hine	62.3R	1-10"						6	129	185	240	199	50		809	y 179	
John Mack	62.3L	1-14"						3	412	428	436	365	162		1806	188	90
Jake Locvich Estate	62.6R	1-6"						5	31		29	16			81	49	
KNIGHTS LANDING TO WILKINS SLOUGH																	
Total			95	199	0	0	403	26030	38800	36700	41140	35810	7295	240	186700	15800	12240
Average cubic feet per second			2	3	0	0	7	437	631	617	669	582	123	4	258		
Monthly use in percent of annual			0.1	0.1	0.0	0.0	0.2	13.9	20.8	19.7	22.0	19.2	3.9	0.1			

a Combined acreage for Mile 34.5R Sacramento River and Mile 0.3L Colusa Basin Drain.
b The 12" unit was removed in 1959.
c Includes 247 acres of Frank Guisti lands.
d Replaces an 8" unit.
e Formerly listed as Alice Reel and Mabel Green.
f Formerly listed as C. L. Reel.
g Includes 15 acres of Buell Ranch lands.
h Includes 296 acre-feet delivered to River Farms Company as follows: April 108, May 25, June 52, July 71, August 35 and September 5.
i Includes 150 acres of River Farms Company lands.
j Combined acreage for Miles 44.2L and 46.45L.
k Formerly listed as John Clauss (Fuchlin).
m Includes 143 acre-feet of water spilled into a lake.
n Combined acreage for Miles 49.0L and 49.7L.
p Formerly listed as Holmes and Westover Company.
q New installation in 1959.
r Replaces a 10" unit.
s Replaces a 12" unit.
t Replaces a 20" unit.
u Includes 50 acres of duck ponds.
v Includes 220 acres of Tucker lands.
w Formerly listed as Lamb Brothers.
x Formerly listed as J. A. Neilson Estate.
y Includes 113 acres of Zumwalt lands.

TABLE 193

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Wilkins Slough to Colusa)

November 1958 through October 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov-Oct Acre-Feet	Acreage Irrigated	
			Nov	Dec	Jan	Feb	Mar	Apr.	May	June	July	Aug.	Sept	Oct		General	Rice
--GAGING STATION - SACRAMENTO RIVER BELOW WILKINS SLOUGH--	62.9R																
Reclamation District 108 (Wilkins Slough)	63.2R	5-42" 1-48"					1280	17400	14900	19100	20600	15000	2160		90440	a 5557	a 10108
R. L. Young	63.3L	1-12"						30		50	73	12	18	363	546	b 104	
Meister Ranch	63.65L	1-8"							74		54				128	100	
Sutter Mutual Water Company	63.75L	6-42"				438		29400	39300	40300	41800	41300	11500	257	c 204300	d 16790	d 14859
--GAGING STATION - SACRAMENTO RIVER BELOW TISDALE WEIR--	63.75	2-48"															
Robert E. Seamans	63.9L	2-14"						33	484	631	684	646	250		2728	520	110
Lloyd, Beverly and Fred Durst (e)	64.3R	1-14"	4						22	18	22	23			89	60	
--GAGING STATION - SACRAMENTO RIVER AT TISDALE WEIR--	64.33L																
Frank Lamb	64.35L	1-14"						NO DIVERSION									
Tisdale Irrigation and Drainage Company	64.4L	1-8" 1-12"						46	184	448	492	486	93		1749	609	
Van Horn Ranch	64.9R	1-14"	88												88	150	
Juan Velasquez	65.1R	1-4"						NO DIVERSION									
Fred Schohr	65.6R	1-16"						NO DIVERSION									
Walter Ettl	65.7L	1-8"						41	122	116	123	84			486	135	
J. L. Browning	66.4R	1-18"						NO DIVERSION									
Tisdale Irrigation and Drainage Company	67.1L	1-16" 1-22"						705	1150	1420	1460	1090	263		f 6088	f 820	80
Newhall Land and Farming Company	67.5L	1-12" 2-24"						1290	2010	2570	2790	1880	767		11310	3450	389
--RECLAMATION DISTRICT 70 DRAIN PLANT--	68.8L																
Meridian Farms Water Company 5	68.8L	1-24"						NO DIVERSION									
J. L. Browning	69.0R	1-14" 1-22"					27	153	281	456	252	447	202	155	1973	550	
C. Yerxa and A. Andreotti	69.2R	1-10" 2-16"	18	115	29		1	688	991	875	984	617	146	50	4514	307	550
--EDDY'S FERRY SITE (GRIMES)--	69.45																
J. E. Hollenbeck	69.8R	1-4"						NO DIVERSION									
Tuvrie Kilgore (g)	70.0R	1-12"							9	60	101	84	46		300	103	
N. F. Daly	70.4L	1-10"						21		75	6	66			168	h 56	
Beckley, Ritchie, Poundstone and Andreotti	70.4R	1-16" 1-20"						652	1540	1480	1740	1640	610		7662	79	500
Meridian Farms Water Company 4	71.1L	1-24"						803	1300	1650	1560	1060	618		6991	1021	265
A. B. Armstrong	71.9R	1-14"							96	132	158	79	52		517	230	
H. and A. Andreotti	72.1L	2-14"						559	973	1120	857	1220	227		5006	100	400
C. T. Froh	73.6R	1-10"	36					63	112	91	99	56	40	17	514	150	
Meridian Farms Water Company 3	74.8L	1-18"						306	643	1030	1050	750	340		4119	695	44
L. B. Westfall	75.3R	1-10"							52	18	27	61	25	26	209	87	
J. N. Yates Estate	76.1L	1-10"						8	92	101	80	42	38		361	i 165	
Robert Chesney	76.15L	1-10"						145	313	287	328	330			1403		100
M. S. Davis and C. K. Anderson	76.2L	1-8"							28	9		26			63	j 68	
Steidlmayer Brothers	76.5R	1-16"								299		115	51		465	200	
Olive Percy Davis, et al.	77.8R	1-16"							186	194	192	271	86		929	305	
R. X. Ranch Company (k)	77.9L	1-16"						102	152	156	86				496	250	
Olive Percy Davis, et al.	78.15R	1-30"						1170	1570	1660	1850	1930	7	13	8200	m	m
Olive Percy Davis, et al.	78.75R	2-12" 1-16"	28	14				711	223	620	784	766	83	55	3284	m 645	m 2105
Olive Percy Davis, et al.	78.8R	1-24"						1560	1830	2100	2230	2070	231		10020	m	m
Steidlmayer Brothers	78.9R	1-12"							116	99	62		8		285	118	
C. E. Reische	79.0L	1-10"						47	38	75	62	41			263	n 167	
Gerrans Orchard	79.3R	1-10"						15	44	46	39				144	55	
J. J. Hankins	79.5L	1-8"							12	53	21	7			93	38	
A. M. Wood	79.7L	1-10"							7	41	8	24			80	p 100	
--GAGING STATION - SACRAMENTO RIVER AT MERIDIAN--	79.85																
Meridian Farms Water Company 1 and 2	80.0L	1-10" 1-20" 1-24"						1940	3570	4370	4350	4120	942		19290	q 3219	q 692
Gerrans Orchard	80.3R	1-8"						10	58	11	51				130	60	
Tomlinson Brothers and E. J. Burrows	81.5L	1-16"						120	505	444	714	633	71		2487	130	112
Tomlinson Brothers	81.8L	1-16"					16	132	155	374	184	130			991	160	
F. T. Reische and L. F. Wood	82.5L	1-12"							15	22	29	21	7		94	55	
Emerson Hixon	82.7L	1-6"						NO DIVERSION									

TABLE 193

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Wilkins Slough to Colusa) (continued)

November 1958 through October 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct.		General	Rice
Steidlmayer Brothers	83.0R	1-20"	3		25			493	439	410	398	67	183	84	2102	840	
J. E. Clark	83.3L	1-14"							11	122	18	41			192	123	
J. E. Clark	83.5L	1-10"						NO DIVERSION									
--BUTTE SLOUGH OUTFALL GATES--	84.0L																
Steidlmayer Brothers (g)	84.0R	1-8"									4	16	4		24	30	
Reclamation Oistrict 1004	85.3L	1-8"						4	63	40	10	37	30		184	85	
Steidlmayer Brothers	85.6R	1-12"						17	219	29	174	22			461	130	
Clifford Reichel	85.8L	1-10"						91	244	234	265	250	150		1234	71	84
Lydell Peck	86.1L	1-8"						26	27	45	12		17	10	137	70	
W. H. Halsey	86.1R	1-12"						53	130	13	151	77	56		480	200	
Howell Oavis	86.2R	1-18"							56	112	160	14			342	155	
Sciortino Brothers	86.8L	1-8"	28	14				30	37	18	35				162	71	
Kathleen Wilbur	86.9R	1-10"					16	94	27	115	96		4	47	399	216	
Kathleen Wilbur	87.4R	1-10"					12	31	64	66	84		19	52	328	65	
W. H. Halsey	87.45L	1-6"						12		11	18				41	23	
Mrs. O. Locvich	87.6L	1-8"									11	10			21	12	
Swinford Tract Irrigation Company	87.7R	1-12"						84	50	58	76				268	109	
Frank Azevedo	88.0R	1-6"								7	7	8			22	17	
Amy K. Lange	88.2R	1-2"						NO DIVERSION									
Nagel and Locvich	88.2L	1-10"						34		15	41			2	92	44	
Mayfair Farms Incorporated	88.7L	1-14"					3	87	134	134	91		21	62	532	115	
Colusa Irrigation Company	89.2R	1-20"						137	256	350	411				1154	289	
Grace S. Arnold	89.24L	1-8"							79	59	68				206	64	
Reclamation Oistrict 1004	89.25L	r 1-18"	717	741	80		7	210	763	693	742	716	443	456	5568	s 730	s 410
W. H. Halsey and M. Yerxa	89.26L	1-12"						20	142	68	82		88	22	422	120	
WILKINS SLOUGH TO COLUSA																	
Total			922	884	134	438	1362	59570	75900	85200	88960	78380	19950	1671	413400	40990	30810
Average cubic feet per second			15	14	2	8	22	1001	1234	1432	1447	1275	335	27	571		
Monthly use in per cent of annual			0.2	0.2	0.0	0.1	0.3	14.4	18.4	20.6	21.5	19.0	4.8	0.4			

a This acreage also received 20275 acre-feet of water from plant on Colusa Basin Drain Mile 19.9L.
b Includes 31 acres of duck ponds.
c Includes 6094 acre feet of water served to lands in Reclamation District 1660 as follows: April 683, May 1193, June 1353, July 1524, August 1157 and September 184.
d Includes 1145 acres of general crops and 438 acres of rice in Reclamation Oistrict 1660.
e Formerly listed as Ornbaum Livestock Company.
f Includes 260 acres of Winship lands outside the district which received 303 acre-feet as follows: May 8, June 73, July 157 and August 65.
g New installation in 1959.
h Includes 41 acres of Rohleder lands.
i Includes 20 acres of Coffman lands.
j Includes 18 acres of Albertson lands.
k Formerly listed as San Juan Ranch.
m Combined acreage for plants at Miles 78.15R, 78.75R and 78.8R.
n Includes 30 acres of Oavis lands, 30 acres of Lemos lands and 29 acres of Staas lands.
p Includes 50 acres of S. Burtis lands.
q An additional 2076 acres of general crops and 127 acres of rice were irrigated by controlled drainage.
r A 12" unit was removed in 1959.
s Includes 170 acres of duck ponds and 200 acres reused for duck ponds. This acreage also received an undetermined amount of water from Butte Creek Mile 4.3R.

TABLE 194

OIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Colusa to Butte City)

November 1958 through October 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan	Feb	Mar.	Apr	May	June	July	Aug	Sept.	Oct.		General	Rice
--COLUSA BRIOGE--	89.4																
--GAGING STATION - SACRAMENTO RIVER AT COLUSA--	89.4R																
D. Boggs	89.7L	1-10"						NO DIVERSION									
Roberts Ditch Company	90.7R	1-18"	14	27			31	270	736	736	996	513	247	108	3678	1032	
I. G. Zumwalt Company (a)	91.0R	1-6"						NO OIVERSION									
Paul R.Westfall	91.1L	1-3" 1-8"							11		6				17	28	
I. G. Zumwalt Company (a)	91.6R	1-12"						25	80	59	33				197	116	
--GAGING STATION - SACRAMENTO RIVER AT COLUSA WEIR--	92.4L																
Andrew Martin	92.5L	1-8"						NO DIVERSION									
W. H. Halsey	92.6R	1-8"							9	10	7				26	b 40	
Andrew Martin	92.7L	1-4"						NO OIVERSION									
W. H. Halsey	93.0R	1-8"							18	16	17				51	b	
Paul R. Westfall	93.2L	1-3"		2						9	9				20	66	

TABLE 194

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Colusa to Butte City) (continued)

November 1958 through October 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct Acre-Feet	Acreage Irrigated	
			Nov	Dec	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct		General	Rice
Paul R. Westfall	93.6L	1-3" 1-10"									18	6			24	54	
Tuttle Land Company	94.3R	1-20"						168	136	216	316	193		16	1045	c 363	
Roger Wilbur	95.25L	1-12" 1-18"					123	1060	973	990	1050	575	205	90	5066	455	d 289
Azro N. Lewis Estate	95.6L	1-16" e 1-20"							550	580	806	526	135		2597	750	217
J. G. Griffin	95.75L	1-15"						NO DIVERSION									
J. G. Griffin	95.8L	1-26"						22	563	8	192	6			791	505	
Robert Hunter and A. L. Scott, Jr.	95.85L	1-18"						152	848	776	990	1020	238		4024		f 377
I. G. Zumwalt Company (a)	96.8R	1-15"						94	188	125	180				587	340	
N. Heitman	97.7R	1-14"			1			69	89	59	65	67	41	64	455	77	
Rio Bonito Farms	97.75L	1-6"							25	50	59	23			157	160	
Rio Bonito Farms	98.0L	1-10"							22		20	22			64	27	
Roger Wilbur (g)	98.3R	1-10"						22	61	68	65	38	12		266	160	
Otterson and Boggs	98.6L	1-15"						244	480	446	464	471			2105		257
D. Boggs	98.8L	1-18"						5	32	23	68	58	15	22	228	102	
Elizabeth Reimer	99.0R	1-14"						63	174	74	60	16			387	230	
J. E. Boggs	99.1L	1-16"						26	122	21	100	32			301	160	
Hollis Sartain	99.2L	1-20"						PLANT REMOVED									
Hollis Sartain (h)	99.25L	2-16"						632	982	1070	1240	1060	206	43	5233	18	618
L. W. Seaver	99.3R	1-10" 1-12"					6	109	73	122	227	114	15		666	193	
Nelen Forry	99.8L	1-16"	10			2		66	140	68	241	197			724	316	
Saint Patric Home Ranch	101.1R	1-20"							274	59	212	141	202		888	260	
Jane Foster Carter	101.8L	1-14"							125	169	208	181	1		684	377	
Guy M. Morse (i)	102.8R	2-12" 1-20"	51		11			607	714	429	795	689			3296	j 115	328
C. B. Carter	102.9L	1-16"						1	266	267	262	148	3		947	393	
--GAGING STATION - SACRAMENTO RIVER OPPOSITE MOULTON WEIR--	103.3																
--GAGING STATION - SACRAMENTO RIVER AT MOULTON WEIR--	103.6L																
Charles W. Welch	103.7R	1-16"						NO DIVERSION									
Charles W. Welch	103.8R	1-14" k 2-20"						922	1050	1020	894	791			4677		m 504
C. W. Tuttle	103.9R	1-12" 1-18"	19					1100	1030	1210	1190	1010	47		5606	130	718
I. G. Zumwalt Company (a)	104.8L	1-12"						68	46	65	44				223	90	
I. G. Zumwalt Company (a)	105.3L	1-12"						NO DIVERSION									
Lawrence Boyd	105.5L	1-10"						4			4	3	1		12	22	
Thousand Acre Ranch (N. W. Keller)	106.0R	1-14"						152	13	198	183	46	105	23	720	173	
Olive Percy Davis, et al.	106.5R	2-16"						321	203	192	297	151	1	2	1167	520	
Princeton Ranch Company	110.0R	1-12"						27	112	86	122				347	180	
N. Womble	110.1L	2-16"						NO DIVERSION									
I. G. Zumwalt Company (a)	110.7L	n 1-3" 1-12"								38	39				77	100	
--PRINCETON FERRY--	112.0																
I. G. Zumwalt Company (a)	112.05L	1-12"							42		23				65	65	
Reclamation District 1004	112.1L	2-30" 1-50"						5700	10500	10200	10700	10700	3980		51780	p,q 5649	
Princeton-Codora-Glenn Irrigation District	112.4R	3-24"						4860	4380	5700	5400	4780	219	82	25420	r,s 2379	4 3783
I. G. Zumwalt Company (a)	112.6L	1-10"						54	153	144	3				354	215	

TABLE 194

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Colusa to Butte City) (continued)

November 1958 through October 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Emerson B. Estes	114.9R	1-5"						NO DIVERSION									
Mark Munson	115.3R	1-4"						NO DIVERSION									
Opal L. Cushman	115.5L	1-12"						22	17	58	49	37	12	1	196	95	
COLUSA TO BUTTE CITY																	
Total			94	29	12	2	160	16860	25240	25360	27650	23610	5685	451	125200	14120	12740
Average cubic feet per second			2	0	0	0	3	283	410	426	450	384	96	7	173		
Monthly use in per cent of annual			0.1	0.0	0.0	0.0	0.1	13.5	20.2	20.3	22.1	18.9	4.5	0.4			

a Formerly listed as I. C. Zumwalt.
b Combined acreage for Miles 92.6R and 93.0R.
c Includes 20 acres of Mayfair Packing Company lands and 10 acres of W. N. Halsey lands
d Includes 154 acres of Monsen Estate lands.
e The 20" unit was installed in 1959.
f Includes 22 acres of J. G. Griffin lands.
g Formerly listed as J. L. Erisey.
h This plant replaces the plant previously listed at Mile 99.2L.
i Formerly listed as Guy M. Morse and George A. Packer.
j Includes 5 acres of I. G. Zumwalt Company duck club lands.
k One 20" unit was installed in 1959.
m The acreage listed for Mile 103.8R also received 149 acre-feet of water from Colusa Basin Drain Mile 48.7L (0.2).
n The 3" unit was installed in 1959.
p Includes 539 acres of rice and 65 acres of general crops outside the district.
q Includes 2851 acres of rice and 3224 acres of general which also received 3627 acre-feet from Butte Creek Mile 14.4R(0.2) and 21562 acre-feet from Butte Creek Mile 11.8R (2.6) Of these acreages 1261 of rice and 1400 of general crops were reused for duck ponds.
r Combined acreage for Miles 112.4R and 123.9R and plant on Colusa Basin Drain Mile 54.2L.
s Includes 129 acres which received 516 feet of water from Mile 154.8R.

TABLE 195

DIVERSIONS AND ACREAGE IRRIGATED - SACRAMENTO RIVER (Butte City to Red Bluff)

November 1958 through October 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec	Jan.	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct.		General	Rice
--BUTTE CITY BRIDGE--	115.8																
--GAGING STATION - SACRAMENTO RIVER AT BUTTE CITY--	115.8L																
Mark Munson	115.8R	1-4"										1			1	1	
F. A. Brown (a)	115.85L	1-14"							17	89	53	108	22		289	180	
L. O. Ohlson	b 115.9R	1-6"						NO DIVERSION									
Manuel Torres	116.37L	1-12"						NO DIVERSION									
Cronin Estate	116.9L	1-16"						NO DIVERSION									
L. O. Ohlson	117.1R	1-10"							56	16	81	88			241	90	
W. F. Wright, Jr.	117.5R	1-6"	6						27	28	42	5	6	31	145	145	
W. H. Stewart, Jr.	120.3R	1-10"								18	12	1			31	35	
Robert T. Millar	122.3R	1-10"						NO DIVERSION									
Ben Giesbrecht (c)	122.9R	1-10"								8	8	15	8		39	27	
Clarence Reed	123.7R	1-6"						NO DIVERSION									
P. K. Friesen	123.8R	1-4"									1	1			2	1	
Princeton-Codora-Glenn Irrigation District	123.9R	5-24"						5310	10000	8900	10100	8550	3700	1220	47780	d	d
Provident Irrigation District	124.2R	2-24" 1-36" 2-46"						8490	2850	4990	5780	4160			e,f 26270	f,g,h,i 1108	f j,k 7424
J. Bertapelle	124.3R	1-12"	68	45	10	1	125	273	179	199	281	294	131	218	1824	451	
Joe Thomas	125.5R	1-10"						NO DIVERSION									
Duard F. Geis	128.3R	1-6"								17	26	13		61	117	75	
F. S. Reager, Jr.	130.75R	1-8"		25				42	56	85	113	154	15		490	242	
--GAGING STATION - SACRAMENTO RIVER AT ORD FERRY--	130.8R																
O. O. Simmons	131.0L	1-4"						NO DIVERSION									
Harry E. Nichols, Jr.	133.45L	1-6"								38	20	26	24		108	m 80	
Harry E. Nichols, Jr.	133.5L	1-5" 1-6"						NO DIVERSION									
--STONY CREEK--	138.0R																
--BIG CHICO CREEK--	141.5L																
M & T Incorporated and Parrott Investment Company	141.5L	1-20" 4-24"	168	132	31	1	232	1780	2320	3560	4810	5390	1210	322	n 19960	p 2579	p 2047
Fred Wagner (q)	141.5L	1-4"								24	38				62	55	
--OLD CHICO LANDING RAILROAD BRIDGE SITE--	142.1																
Paul E. Arneberg	142.8R	1-14"						46	42	62	94	32			276	140	
Leonard Norning	143.6R	1-10"	1					5	27	50	56	34	3	13	189	75	
Levi Bentz	143.8L	1-6"						19	17	11	21	35	2		105	42	

TABLE 195

DIVERSION AND ACREAGE IRRIGATED - SACRAMENTO RIVER (Butte City to Red Bluff) (continued)

November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug.	Sept	Oct		General	Rice
Glenn Beagle	146.3L	r 1-4" 1-6"								3	6	8			17	20	
Leonard Horning	146.8R	1-10"						6	7	27	22	18	5	6	91	47	
Holly Sugar Corporation	148.9R	1-2" 1-10"						NO DIVERSION									
James Rolph III	149.5L	1-12"						16	12	18	15	48			109	68	
--GAGING STATION - SACRAMENTO RIVER AT HAMILTON CITY (GIANELLA BRIDGE)--	149.5L																
J. A. and A. E. Lewis	149.7L	1-12"	24	17				4	21	141	73	22			302	s 290	
James A. Lewis	150.0L	1-10"					3	94	106	108	155	88	79		633	s	
V. G. Strain	150.8R	1-12" 1-16"					4	433	213	423	415	227	93		1808	582	
Joe E. Johnson	152.2R	1-6"						3	11	10	15	13	3	6	61	21	
Robert Edwards	152.4R	1-6"							13	21	13	14	7		68	m 45	
Bowers Ranch	153.5L	1-8"							12	14	16				42	37	
Jessie and McClain	154.6R	1-5"						4		6	10				20	12	
S. G. Spang (t)	154.7R	1-4"								2					2	u 13	
Jacinto Irrigation District	154.75R	1-36" 1-48"	2150	7650			2520	9840	10800	10400	10600	10400	10200	10700	h,v 85260	8116	1622
Glenn-Colusa Irrigation District	154.8R	w 4-44" x y 1-54" 4-66" 3-72" 1-100"	33900	15900			15700	114000	130000	131000	140000	130000	59100	40400	z,aa B10000	ab 34100	e,ab 44600
Adrian Otten (ac)	155.6R	1-4"	3				3	13	9	9	11	9	11	8	76	21	
R. Pheiffer	155.7R	1-2½"	2	2			2	4	3	5	7	1			26	7	
F. Williams	156.0R	1-6"					7	9	13	13	16	15	1		74	11	
H. M. Penner	156.1R	1-6"	9	9			17	28	31	39	42	38	24	15	252	ad 58	
O. L. Shearman	156.85R	1-3"					1	3	2	2	4	4	3	2	21	5	
Taresh Ranch	158.8R	1-10"							62	102	53	28	8		253	100	
Jonathan Garst	161.45L	2-8" 1-14"					10	289	3	235	327	246	13		1123	495	
Jonathan Garst	161.7L	1-2"					1								ae 1		
Lloyd Nygelund	165.4L	1-14"							99	40	128	67			334	160	
--GAGING STATION - SACRAMENTO RIVER AT VINA BRIDGE--	166.5R																
E. L. Dietz	166.7R	1-3"						NO DIVERSION									
Russell L. Deckman	166.8R	1-2"							1		1	2	1	1	6	9	
Ernest Peterson	166.9R	1-6"		1				4	10	9	11	6	2	5	48	51	
--DEER CREEK--	168.5L																
A. J. McFadden	168.5L	1-8"							49	17	64	59	19		208	71	
C. F. O'Connor	168.85R	1-10"	2				12	44	36	22	37	36		18	207	af 50	
C. F. O'Connor	168.9R	1-6"	1				8	29	24	15	25	24		12	138	af	
Rumiano Brothers	169.8L	1-10"						20	21	26	29	41	36		173	110	
Moritz Thomsen	173.05L	1-8"	2				7	11	83	65	120	90	18	8	404	90	
Dr. O. T. Wood	173.7L	1-8"						12	4	16	10		9		51	110	
Dutro Brothers	175.5R	1-4"					5	5	8	12	19	14	5	16	84	30	
Dutro Brothers	176.6R	1-4"					3	5	4	8	11	11	3	7	52	10	
L. L. Brunnemer	177.2L	1-6"	3												3		
--TEHAMA BRIDGE--	177.5																
--MILL CREEK--	179.0L																
--ANTELOPE CREEK--	182.6L																
Los Molinas Mutual Water Company	187.6L	1-12"						NO DIVERSION									
John Taylor	188.5L	1-1½"						NO DIVERSION									
Orville L. Johnson	188.51L	1-2½"						NO DIVERSION									
Henry Kerber	188.8L	1-10"						NO DIVERSION									
R. C. Osborn	189.1R	1-6"						15	6	7	22	12	2		64	65	
--RED BLUFF BRIDGE--	193.4S																
Arthur Stanley	196.5L	1-2½"						NO DIVERSION									
W. R. Harris	196.55L	1-1½"					1		1	1	1	2	2		8	4	
S. and E. Erickson	196.6L	1-5"					5	12	12	23	23	6	3	3	87	35	
Diamond National (ag)	197.0L	1-8"					33	38	74	108	109	80	48		490	100	
Carl Fahle	197.1L	1-3"						1	1	1	2	1	1		7	8	

TABLE 195

DIVERSIONS AND ACREAGE IRRIGATED - SACRAMENTO RIVER (Butte City to Red Bluff) (continued)

November 1958 through October 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
C. Cilliland	197.5L	1-1¼"	1						1	1	1	1	1		6	4	
Al Caumer	198.0L	1-3"	5				3	22	21	29	27	28	13	12	160	ah 75	
Al Caumer	198.3L	1-3"								2	24	32	1		59	ah	
BUTTE CITY TO RED BLUFF																	
Total			36360	23780	41	2	18700	140900	157400	161100	174000	160600	74800	53100	1001000	50400	55700
Average cubic feet per second			611	388	1	0	305	2367	2566	2706	2836	2618	1257	866	1383		
Monthly use in per cent of annual			3.6	2.4	0.0	0.0	1.9	14.1	15.7	16.1	17.4	16.0	7.5	5.3			

a Formerly listed as R. H. Gebicke.
b Previously listed as Mile 115.9L
c New installation in 1959.
d Combined acreage for Miles 112.4R and 123.9R and plant on Colusa Basin Drain Mile 54.2L.
e 104 acres of rice listed for Glenn-Colusa Irrigation District plant at Mile 154.8R received 800 acre-feet of water from Mile 124.2R.
f The acreage listed for Princeton-Codora-Glenn Irrigation District plant at Mile 112.4R received 2702 acre-feet of water from Mile 124.2R.
g Combined acreage for Mile 124.2R and plants on Colusa Basin Drain at Miles 57.5 (2.4), 61.2R (1.5), 62.8L (2.5), 64.2R (0.1), and 64.2R (2.6).
h 51 acres of general crops listed for Mile 124.2R received 250 acre-feet of water from Jacinto Irrigation District plant at Mile 154.75R.
i Includes 72 acres of duck ponds.
j Includes 72 acres reused for duck ponds.
k 448 acres of rice listed for Mile 124.2R received 3600 acre-feet of water from Glenn-Colusa Irrigation District plant at Mile 154.8R
m This acreage also received an undetermined amount of well water.
n An additional 22831 acre-feet were received from Butte Creek as follows: November 1016, December 1294, January 243, March 91, April 4660, May 4673, June 2830, July 2327, August 2204, September 1436 and October 2057.
p Includes acreage as follows: M & T Incorporated - general 829, rice 842; Parrott Investment Company - general 1750, rice 1205.
q Formerly listed as Frank C. Brazell.
r The 4" unit was installed in 1959.
s Combined acreage for Miles 149.7L and 150.0L.
t Formerly listed as C. E. Warne.
u Includes 3 acres which also received an undetermined amount of well water.
v Quantities shown are diversions at Mile 154.75R to Glenn-Colusa Irrigation District canal.
w Four 44" units were installed in 1959.
x One 48" unit was removed in 1959.
y One 54" unit was installed in 1959.
z An additional 10382 acre-feet diverted by gravity from Stony Creek as follows: November 1, January 3260, March 3150, April 3720, May 251.
aa An additional 4074 acre-feet diverted by plant on Colusa Basin Drain at Mile 29.8R (1.4). Includes 516 acre-feet served to 129 acres of general, listed for Mile 112.4R. 448 acres of rice, listed for Mile 124.2R received 3600 acre-feet of water from Glenn-Colusa Irrigation District Plant at Mile 154.8R.
ab This acreage also received an undetermined amount of water by controlled drainage. Of this acreage, 1379 was reused for duck ponds. Includes the following acreage outside the district: general 687 and rice 677.
ac Formerly listed as J. Ewert.
ad Includes 4 acres of Evit lands.
ae Nonagricultural use.
af Combined acreage for Miles 168.85R and 168.9R.
ag Formerly listed as Diamond Match Company.
ah Combined acreage for Miles 198.0L and 198.3L.

TABLE 196

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Red Bluff to Redding)

November 1958 through November 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--GAGING STATION - SACRAMENTO RIVER NEAR RED BLUFF--	198.6																
C. T. Loftus	205.1L	1-4"					4	22	24	26	26	28	21	13	164	47	
--BEND FERRY BRIDGE--	207.0																
D.Mills	207.3L	1-8"					29	50	83	87	93	100	52	37	531	110	
D.Mills	207.5L	1-12"					66	82	159	154	184	183	106	103	1037	191	
LaMirada Olive Company	209.0L	1-4"								5	32	45	16		98	10	
Table Mountain Gun Club	210.0R	1-2½"						NO DIVERSION									
J. F. Nunes	213.0R	1-7"						NO DIVERSION									
F. L. Jelly	213.5L	1-3"						NO DIVERSION									
J. F. Nunes	216.0R	1-5"	8						13	17	10	16	7	2	73	16	
--JELLY FERRY BRIDGE--	216.0																
W. A. Hunaeus	216.4L	1-3"	1						7	12	16	12	8	5	61	13	
Haakonson Brothers	217.5L	1-5"						47	40	75	85	42	11	17	317	73	
J. L. Haskins	217.9L	1-6"						49	83	64	112	19	26	44	397	46	
Rio Alto Rancho	221.0R	1-12"	29	32				48	87	248	241	230	149		1064	375	
--BATTLE CREEK--	221.5L																
--COTTONWOOD CREEK--	222.2R																
--GAGING STATION - SACRAMENTO RIVER AT BALLS FERRY	224.5																
C. D. Draucker	228.0R	1-16"						48	50	131	113	55	54		451	65	
--ANDERSON BRIDGE--	232.9																
Floyd Leonard	233.5L	1-6"					5	14	35	36	37	37	5		169	70	
United States Plywood Corporation	234.0R	1-8"	229	237	129	80	85	55	49	48	72	101	104	231	1420	20	
--CLEAR CREEK--	237.1R																
William Menzel Company Incorporated	240.2L	1-12"					85	162	300	239	295	298	115	239	1733	143	
Lou Gerard	240.3L	1-2"	2					8	9	8	9	9	8	8	61	5	
John Cladwell	240.4L	1-4"						NO DIVERSION									
Anderson Cottonwood Irrigation District	240.5L	4-16"	10	15				2920	3560	3590	3700	3580	2070	2700	22140	2293	

TABLE 196

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Red Bluff to Redding) (continued)

November 1958 through November 1959

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec	Jan.	Feb	Mar	Apr	May	June	July	Aug.	Sept.	Oct		General	Rice
--GAGING STATION - SACRAMENTO RIVER NEAR REDDING--	240.7																
Riverview Golf Course	240.8L	1-4"		1			4	5	20	36	40	41	23	10	180	a 100	
J. N. Hein Company (b)	241.9L	1-4" 1-6"													c		
--HIGHWAY 44 BRIDGE--	242.0																
--HIGHWAY 99 BRIDGE--	245.9																
Anderson-Cottonwood Irrigation District	246.0R	Gravity	21600	2930				21900	24400	24000	24700	23330	17100	22400	d 182400	e 20707	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	246.25																
City of Redding	246.25L	2-6"						NO DIVERSION									
Maybell Diestelhorst	246.3R	1-8"	6					9	27	61	57	74	13	23	270	22	
--OLD REDDING-YREKA BRIDGE--	246.4																
City of Redding	246.7R	3-8"	196	189	178	159	210	282	374	592	726	557	368	271	4102	f	
--GAGING STATION - SACRAMENTO RIVER AT KESWICK--	250.5																
RED BLUFF TO REDDING																	
Total			22080	3404	307	239	488	25700	29320	29420	30550	28750	20250	26100	216600	24310	0
Average cubic feet per second			371	57	5	4	8	431	478	494	498	469	340	425	299		
Monthly use in per cent of annual			10.2	1.6	0.1	0.1	0.2	11.9	13.5	13.6	14.1	13.3	9.3	12.0			
SACRAMENTO RIVER - SACRAMENTO TO REDDING																	
Total			64290	32560	2900	2783	24330	298200	371300	383400	416100	375800	44600	87800	2204000	168400	128100
Average cubic feet per second			1080	530	47	50	396	5012	6038	6443	6767	6112	2430	1428	2795		
Monthly use in percent of annual			2.9	1.5	0.1	0.1	1.1	13.5	16.8	17.4	18.9	17.1	6.6	4.0			

a This acreage also received an undetermined amount of water from a seepage pond.
b Installed prior to 1959. Not previously listed.
c Non-agricultural, gravel plant.
d Includes the following acre-feet of operational spill: November 26596; December 2934; October 1400.
e Of this acreage 1000 was double cropped.
f Municipal.

TABLE 197

DIVERSIONS AND ACREAGES IRRIGATED - COLUSA BASIN DRAIN*

November 1958 through October 1959

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan	Feb.	Mar	Apr.	May	June	July	Aug.	Sept	Oct.		General	Rice
--GAGING STATION - COLUSA BASIN DRAIN AT KNIGHTS LANDING (KNIGHTS LANDING OUTFALL GATES)--	0.25L																
River Farms Company	0.3L	1-10" 1-20"						849	965	988	1170	809			4781	a	a
--RIDGE CUT AT KNIGHTS LANDING--	0.4R																
John J. Anderson	1.45R	1-16" 1-20"	18	17	11			264	489	365	395	380	53		1992		b 272
John C. Cooling	4.2R(0.1)	1-16"						86	443	454	466	417	53		1919		175
J. E. Taylor	4.2R(0.7)	1-12"						4							4	c 45	
B. C. and T. O. Tolson	4.2R(0.8)	1-12"						NO DIVERSION									
Layton Knaggs	4.35R	1-20" d 1-24"						836	1480	1260	2160	2390	212		8338		e 755
Layton Knaggs	7.2R	1-16"	64	54	17			143	296	271	219	171	199	107	e 1541	f 204	
George O. Youngmark	8.8R	1-14" 1-16"						213	676	634	560	561	37		2681		307
Nershey Estate	11.15R	1-16" 1-18"		150	17			270	773	565	698	596	189		3258	g 160	280
Nershey Estate	13.75R	1-16"						206	372	536	377	285	28		1804		300
C. M. Mumma	14.75R	1-16"						178	250	271	275	405	37		1416		116
--COUNTY LINE BRIDGE--	15.25																
J. V. Doherty	15.5R	1-12"						NO DIVERSION									
M. T. Emmert	15.75R	1-12"						236	617	638	654	590	134		2869	310	160
H. B. West, Jack Hughes and Dr. R. C. West	18.1R	1-15" 1-20"		82	82										164	h 40	
James Iriart	18.5R(0.8)	1-14"							208	416	146	153	10		933	i 376	i 92
--RECLAMATION DISTRICT 108 GRAVITY DRAIN--	19.9L																
Reclamation District 108	19.9L	1-16" 1-24" 1-30"						1510	4490	4470	4540	4940	324		20270	j	j
James Iriart (k)	20.0R	1-15"					145	124	252	238	304	332	196	158	1749	i	i
B. W. Whitmire and O. S. Adams	21.35R	2-16"	279	106	1			4	27	49	41	20	6	15	548	m 293	
Albert Brandenburg	22.15R	1-14"						NO DIVERSION									

TABLE 197

DIVERSIONS AND ACREAGES IRRIGATED - COLUSA BASIN DRAIN* (continued)

November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept.	Oct.		General	Rice
--GAGING STATION - COLUSA BASIN DRAIN NEAR COLLEGE CITY--	22.5L																
Aileen Browning Armstrong	22.75R(0.1)	1-16"							196	187	234	249	49		915		98
--SOUTHERN PACIFIC RAILROAD BRIDGE--	23.6																
Balsdon Ranch	24.6R(0.3)	1-16"						NO DIVERSION									
Balsdon Ranch	24.6L(0.3)	2-16" 1-20"		38	130			435	967	784	1250	734	90		4428	773	270
Henry J. Olin	24.6L(0.31)	1-12"		5	13			14	76	85	76	94	46		409	100	
Luta King	25.1R	1-6"						NO DIVERSION									
Gertrude M. Sherer	25.3L	1-16"						NO DIVERSION									
Gertrude M. Sherer	25.5R	1-10"							12	14	40	28	9		103	40	
--GRIMES - COLLEGE CITY CAUSEWAY--	25.5																
Fred Schutz	25.9L	1-16" 1-20" 1-24"						416	1910	752	1110	720	233		5141	n 720	400
Roy E. Kitts	26.4R(0.1)	1-18"						36	179	151	164	159	10		699		145
C. W. and M. P. Struckmeyer	27.25L(0.3)	1-16"						142	49	337	364	396	168		1456	940	
William P. Wallace Ranch	28.0R	1-12" 1-16"						NO DIVERSION									
--WALLACE CROSSING (OLD MERIDIAN-WILLIAMS BRIDGE)--	29.2																
Olive Percy Davis, et al.	29.79L	Gravity						NO DIVERSION									
Olive Percy Davis, et al.	29.8R(0.4)	1-16"						69	190	719	665	712	47		2402		195
Fred Wilkins	29.8R(1.0)	1-14"						NO DIVERSION									
Glenn-Colusa Irrigation District	29.8R(1.4)	1-20" 2-38"						1460	163	430	1460	532	25		p 4070		
Olive Percy Davis, et al.	31.5L	1-24"						PLANT REMOVED									
Olive Percy Davis, et al.	32.1R	1-16"							12	65	105	69			251	152	
Federal Fish and Wildlife Service	32.6R	1-16"	198	159	47							148	125	307	984	q 180	
J. G. Olvey	32.6L	1-14"						70	250	86	261	462	28		1157		105
Arata Brothers	32.9L	1-8"	30	12	10								21	73	146	r 20	
Richard Moore	33.5L	1-12" 1-16"	14	10	2			281	690	612	654	638	94	2	2997		s 277
Federal Fish and Wildlife Service	36.65R	1-15" 1-20"	351	20				371	979	712	813	904	775	623	5548		q 640
Federal Fish and Wildlife Service	37.0L(0.1)	t 1-14" 1-15"							40						40	60	
--GAGING STATION - COLUSA BASIN DRAIN AT HIGHWAY 20--	37.0																
I. G. Zumwalt Company (u)	39.2L	8-20"	12	69				2260	2260	2760	3760	3690	792	495	16100	v,w 2387	x 1288
East Williams Land Company	39.2R	1-16"								2	28	192	42	42	306	r 150	
J. N. Cave	39.98R	1-10"						NO DIVERSION									
Leon Paulo and L. W. Seaver	40.0L	3-16"						552	1040	795	878	883	313	80	4541	91	323
J. N. Cave	40.5R	1-14"						NO DIVERSION									
Lloyd W. Seaver and F. J. Byington	41.5L	3-16"						567	1190	905	1350	1130	329		5471		x 784
Coffman and Campbell	42.6L	1-16"						NO DIVERSION									
Louis G. Sutton	42.7R	1-16"						NO DIVERSION									
Watt Brothers	43.2L	1-16"						26	200	182	187	214	57		866		175
Watt Brothers	43.4R	1-12"						NO DIVERSION									
S. Ash	45.0L	2-16"		10	35			569	488	713	734	532	60		3141	190	400
Charles W. Welch	45.0R	1-12" 1-15"						NO DIVERSION									
El Dorado Sportsman Club	46.5R	1-16"						NO DIVERSION									
I. G. Zumwalt Company (u)	46.75L	1-24"						407	298	405	434	382	37		1963		440
Lloyd Kahn	47.5L	1-6"	6	10					3	16	1	8	1		45	r 20	
Lloyd Kahn	47.5L(0.4)	2-16"						468	620	603	533	584	58		2866		275
Charles W. Welch	48.7L(0.2)	1-12"						149							z 149		
Charles W. Welch	48.7L(0.3)	1-12"						NO DIVERSION									
Charles W. Welch	48.7R(0.8)	1-14" 1-16" 2-20"	779	378	107		126	848	1610	860	1270	765	976	1290	9009	aa,ab 800	aa 1387
Del Valley Farms, Incorporated	49.1R	1-10"	2					129	202	139	258	148	27	59	964	r 30	100
Lynn and Bohne	49.58L(0.9)	1-10" 1-12"						336	228	280	296	412	40		1592		265
J. W. Guerin and W. J Thompson	49.59R	1-12"	37	6				56	109	41	54	119	11		433	r 60	60
Helphenstine Rice Lands	49.69L	1-16"	139	63				394	732	616	639	584	112	29	3308		ac 260
E. Butler, E. Meyer and J. Jones	49.7L	1-14"	10					134	234	236	258	200	19	20	1111	r 17	ad 117

2928 8-59 500 SPO

TABLE 197

DIVERSIONS AND ACREAGES IRRIGATED - COLUSA BASIN DRAIN* (continued)

November 1958 through October 1959

Water User	Mile and Bank**	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre-Feet	Acreage Irrigated	
			Nov	Dec	Jan.	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct		General	Rice
Longwell Acres	50.5L(0.3E)	1-10"	28	35	6					4	21	12	27	63	196	r 50	
Manuel Barrett	Opp. 53.6R(1.3)	ae 1-8" 1-12"						94	90	129	135	173			621		195
Princeton-Codora-Glenn Irrigation District	54.2L	2-18"						637	1010	1070	1580	1000	173		5470	af	af
John S. Lopes	54.9R	1-12"						NO DIVERSION									
J. P. Cardoza	55.0R	1-4"	29	14	5		2	23	29	44	37	32	5	2	222	6	ag 10
Provident Irrigation District (Willow Creek Plant)	57.5R(2.4)	1-24" 1-36"						555	78	1240	134	150	14		ah 2171		
--LATERAL HIGHWAY - BUTTE CITY TO WEST SIDE--	57.5																
Walter McGowan	58.4L	1-8" 2-16"						PLANT REMOVED									
Jamieson Codora Ranch (ai)	58.4R	1-12" 1-16"						62	327	299	286	321	58	4	1357	aj 107	154
Joe Navarro	59.0R	1-18"	15	40			18	552	277	408	379	260	60	51	2060	100	290
Provident Irrigation District (Drain 55)	Opp.61.2R(1.5)	Gravity	1390	1610	529			3010	4550	5100	5970	6460	4430	3070	ah 36120		
Dorothy Foote	62.4L	1-16"						NO DIVERSION									
Provident Irrigation District	Opp.62.8L(2.5)	2-16"						702	567	621	815	373	124		ah 3202		
Terrill Knight	63.2L	1-12" 1-16"						340	391	427	407	414	55		2034	r 2	246
Demmer and Bohach	63.7L	1-12"	6					32	161	113	178	185	92	41	808	r,ak 15	ak 67
John M. Demmer and Mary R. Bohach	64.1L	1-12" 1-14"						125	207	197	204	301	61	3	1098	ak	ak
Provident Irrigation District (Colusa Drain)	64.2(0.1)	1-20" 1-24"						2540	3890	3520	3480	2950	902	22	ah 17300		
Provident Irrigation District (Drain 13)	Opp.64.2R(2.6)	1-16" 1-20" 1-24"					15	1420	2250	2290	2360	2320	833	112	ah 11600		
Provident Irrigation District (Drain 13)	Opp.64.2R(2.6)	Gravity	943	786	101			705	1270	932	850	1000	1080	533	ah 8200		
Ray Funke	64.21R(2.6W)	1-1"							1						am 1		
COLUSA BASIN DRAIN Total Average cubic feet per second Monthly use in per cent of annual			4350 73 1.9	3674 60 1.6	1113 18 0.5	0 0 0.0	306 5 0.1	25910 435 11.3	41360 67 18.0	41040 689 17.9	46720 762 20.4	43690 712 19.1	13990 235 6.1	7201 117 3.1	229300 317	8438	11420

* Carries return water from Colusa Basin along west border at Reclamation Districts 108 and 787 and then discharges to Sacramento River at Mile 34.15R or partial diversion via Knights Landing Ridge Cut.
** Mileage along Colusa Basin Drain from junction with Sacramento River.
a Combined acreage for Mile 34.5R Sacramento River and 0.3L Colusa Basin Drain.
b Includes 6 acres reused for duck ponds.
c This acreage also received an undetermined amount of well water.
d The 24" unit was installed in 1959.
e The acreage listed for Mile 4.35R also received an undetermined amount of water from Mile 7.2R.
f Includes 69 acres of duck ponds.
g Includes 60 acres of duck ponds.
h This acreage was used for duck ponds only.
i Combined acreage for Mile 18.5R (0.8) and 20.0R.
j Combined acreage for Mile 63.2R Sacramento River and Mile 19.9L Colusa Basin Drain.
k Formerly listed as William West.
m Includes 50 acres reused for duck ponds.
n Includes 400 acres of Tuttle lands.
p This water was served to acreage listed for Mile 154.8R Sacramento River and includes an undetermined amount of water returned to Colusa Basin Drain by spill.
q All duck refuge lands.
r All duck club lands.
s Includes 60 acres reused for duck ponds.
t The 14" unit was a temporary installation during 1959.
u Formerly listed as I. G. Zumwalt.
v Includes 428 acres of duck ponds.
w Includes 100 acres of Hahn lands.
x Includes 423 acres of Hahn lands.
y Includes 509 acres of Coffman lands.
z The acreage listed for Sacramento River Mile 103.8R also received 149 acre-feet of water from Mile 48.7L(0.2).
aa This acreage received an undetermined amount of water from Stone Corral Creek.
ab Includes 800 acres reused for duck ponds.
ac Includes 35 acres reused for duck ponds.
ad Includes 117 acres reused for duck ponds.
ae The 8" unit was a temporary installation during 1959.
af See plant on Sacramento River at Mile 112.4R.
ag This acreage reused for duck ponds.
ah This water was served to acreage listed for Mile 124.2R Sacramento River.
ai Replaces plant previously listed as Mile 58.4L.
aj Includes 5 acres of duck ponds.
ak Combined acreage for Mile 63.7L and 64.1L.
am Stock water.

TABLE 198

DIVERSIONS AND ACREAGES IRRIGATED - KNIGHTS LANDING RIDGE CUT

November 1958 through October 1959

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec	Jan	Feb.	Mar.	Apr	May	June	July	Aug	Sept	Oct		General	Rice
--STATE HIGHWAY 24 BRIDGE--	0.3																
--SOUTHERN PACIFIC RAILROAD BRIDGE--	0.7																
E. L. Wallace	0.8R	1-16" 1-20"						286	328	601	716	570	278		2779	a 1300	a 115
M. R. Richardson	0.82L	1-14"						139	400	381	365	375	125		1785		87
--RECLAMATION DISTRICT 730 DRAINAGE PLANT 2--	3.2R																
Ralph W. Pollock	3.5L	Gravity						29	38	39	24	24	24		178	60	
W. K. Lowe	4.3R	1-16"							111	66	55				232	410	
Ralph W. Pollock	4.55L	1-16"						30	57	34	92	73			286	135	
Albert Bacclini	4.7R	1-6"						24		15	20	18			77	23	
Hershey Estate	4.75L	1-24"						577	438	514	544	504	15		2592		287
Hershey Estate	5.25R	1-16"						NO DIVERSION									
--WEST LEVEE YOLO BYPASS--	6.3																
Hershey Estate	6.3R	Gravity							244	468					712	500	
Hershey Estate	6.3	Gravity							692	852	857	857	230		3488	450	270
Sacramento River Ranch	6.3L	Gravity						22	534	500	762	424	155		2397	1210	220
KNIGHTS LANDING RIDGE CUT																	
Total			0	0	0	0	0	1107	2842	3470	3435	2845	827	0	14530	4088	979
Average cubic feet per second			0	0	0	0	0	19	46	58	56	46	14	0	20		
Monthly use in per cent of annual			0.0	0.0	0.0	0.0	0.0	7.6	19.6	23.9	23.6	19.6	5.7	0.0			

* Mileage downstream from head on Colusa Basin Drain near Knights Landing. Flow is principally Colusa Basin drainage diverted to the Ridge Cut by checking at Knights Landing Outfall Gates.

a This acreage also received an undetermined amount of well water.

TABLE 199

DIVERSIONS AND ACREAGES IRRIGATED - YOLO BYPASS (EAST BORROW PIT OR TULE CANAL)

November 1958 through October 1959

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Swanston Land Company	1.8S(0.5)	1-14"						NO DIVERSION									
Swanston Land Company	1.5S	1-14"						NO DIVERSION									
Swanston Land Company	1.1S	1-18" 1-20"						NO DIVERSION									
--GAGING STATION - YOLO BYPASS BELOW SACRAMENTO BYPASS--	1.0S																
Swanston Land Company	a 0.8S	1-14"						121							121		b
Swanston Land Company	a 0.5S	1-14"						462	763	749	706	708	81		3469		b 220
--GAGING STATION - YOLO BYPASS ABOVE SACRAMENTO BYPASS--	0.0																
Swanston Land Company	a 1.8N	1-16" 1-20"						109	983	833	888	1010	292		4115		370
Ensher, Alexander and Barsoom	2.4N	1-20"						316	268	446	499	592	155		2276	c 674	c 170
--SACRAMENTO - WOODLAND HIGHWAY--	6.18N																
--SACRAMENTO - WOODLAND RAILROAD BRIDGE--	6.2N																
City of Woodland	6.5N	1-16"						NO DIVERSION									
--CACHE CREEK--	7.0N																
Hershey Estate	9.5N	1-16"						NO DIVERSION									
--KNIGHTS LANDING RIDGE CUT--	9.6N																
--RECLAMATION DISTRICT 1600 DRAINAGE PLANT--	10.0N																
YOLO BYPASS (EAST BORROW PIT OR TULE CANAL)																	
Total			0	0	0	0	0	1008	2014	2028	2093	2310	528	0	9981	674	760
Average cubic feet per second			0	0	0	0	0	17	33	34	34	38	9	0	14		
Monthly use in per cent of annual			0.0	0.0	0.0	0.0	0.0	10.1	20.2	20.3	21.0	23.1	5.3	0.0			

* Mileage is given northerly or southerly from north levee of Sacramento By-Pass. Diversions from East Borrow Pit of Yolo By-Pass are primarily from water diverted through Knights Landing Ridge Cut.

a Indicates that land irrigated is within By-Pass area.
b Combined acreage for Mile 0.8S and 0.5S.
c This acreage also received an undetermined amount of well water.

TABLE 200

DIVERSIONS AND ACREAGES IRRIGATED - LOWER BUTTE CREEK AND BUTTE SLOUGH

November 1958 thorugh October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov -Oct Acre-Feet	Acreage Irrigated	
			Nov	Dec	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct		General	Rice
	*							Lower Butte Creek									
Reclamation District 1004	3.2R	1-14"						NO DIVERSION									
Reclamation District 833	3.3L	1-16"							92	333	506	339			1270	625	
Colusa Shooting Club	4.1L	1-16"	195	279	6			77		10	112				679	a 645	
West Butte Farms Company	4.25L	1-18"							3	393	198				594	400	
Reclamation District 1004	4.3R	1-20" 1-24"	677	494			74			666	995	526	404	659	b 4495	c 1210	
El Anzar, Incorporated	5.7L	1-12"								104					104	150	
Field and Tule	7.1L	1-16"						NO DIVERSION									
White Mallard Duck Club	11.8R	Gravity	641	669	140									1070	2520	d	d
White Mallard Duck Club	11.8R(0.5)	1-12" 1-16"	381	216	39			105	250	223	456	437	58		2165	d 75	d 72
Reclamation District 1004	11.8R(2.6)	Gravity	4860	5890	971			1590	1650	857	1050	333	342	4020	e 21560		
Reclamation District 1004	Opp.14.4R(0.2)	Gravity	1120	1330	275			853	45						f 3623		
Compton Hills Ranch	Opp.14.4R(0.4)	1-16"						2	71	23	74	38	49	69	326	80	
--GRIDLEY ROAD BRIDGE--	15.4																
Butte Basin Gun Clubs	15.6L	Gravity	3000	3000											6000	g 4000	
J. Ken Sexton and Son (h)	19.3R	1-16"						52	66	93	122	128	33	25	519	124	
--BIGGS - AFTON ROAD BRIDGE--	19.4																
J. Ken Secton and Son (h)	Opp. 19.6R(0.8)	1-14"						NO DIVERSION									
Homar and Homar A. Charles	Opp. 20.7R(0.8)	2-16"	124	114	39			521	573	749	1030	951	166	8	4275		i 260
McGowan Brothers	Opp. 20.9R(0.5)	1-16"						97	250	260	320	100			1027		100
McGowan Brothers	21.0R	1-20"						NO DIVERSION									
E. McPherrin	21.1L	1-16" 1-20"						24	785	888	1060	840	325		3922	535	180
Mary Lou Hulen	Opp. 21.4R(1.0)	1-16"						NO DIVERSION									
McGowan Brothers	Opp. 22.4R(0.7)	j 2-16"						112	28	114	153	80		99	586	100	
McGowan Brothers	Opp. 22.4R(1.1)	1-16"						NO DIVERSION									
--RICHVALE - BUTTE CITY ROAD BRIDGE--	22.5																
McGowan Brothers	23.0R	j 2-16" 1-20"						1310	1130	1250	1400	1200	178		6468		k 500
Harris Lands	23.0L	1-16"	2	12				70	97	149	139	77	40	82	668	90	
McGowan Brothers	Opp. 23.0R(0.75)	1-16"						NO DIVERSION									
McGowan Brothers	Opp. 23.5R(1.2)	1-16"							60		119				179	94	
McGowan Brothers	Opp. 24.0R(0.5)	m 1-14" m 2-16" 1-20"	87	70				537	542	566	680	569	51		3102		k 354
McGowan Brothers	24.5R(1.4)	1-16"						NO DIVERSION									
Ruth Baldwin and Charles K. Layton	Opp. 25.6L(0.6)	2-16"						NO DIVERSION									
Arrowhead Ranch	28.0R	j 2-16"						415			291				706	n 60	n 328
Arrowhead Ranch	29.2L	p 1-12"							17	166	16		63		262	100	
--WESTERN CANAL DAM--	30.3																
								Butte Slough									
--SACRAMENTO RIVER JUNCTION--	0.0																
Butte Slough Irrigation Company	0.0	Gravity													q		
M. Marty	0.3W	1-10"					9	116	73	102	152	122	84		658	r 212	
--BUTTE CREEK--	0.6E																
Mrs. Mamie M. Smith	0.9E	1-7"						3	86	81	90	54			314	s 253	
Joe Marty	1.0W	t 1-12"							17	39	22	25			103	38	
Mrs. Mamie M. Smith	1.4E	1-8"								107	138	86			331	s	
Fred Tarke	1.9W	1-14"								154		84	30		268	64	
--MAWSON BRIDGE--	2.1																
C. W. Rawley	2.5W	1-14"						17		179	18	131	7		352	253	
J. E. Smith	3.0W	1-10"								157	36	65	6		264	120	
Pearl Clark and Alice Brewer	3.5W	1-10"						16	24	54	49	43	22		208	100	
P. A. Reische	3.7W	1-10"							22		20	12			54	52	
Granniman and Fieth	4.08W	1-6"								1	5	5			11	9	
P. A. Reische	4.1W	1-10"						19	33	97	10	44			203	u 157	

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TABLE 200

DIVERSIONS AND ACREAGES IRRIGATED - LOWER BUTTE CREEK AND BUTTE SLOUGH (continued)

November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct.		General	Rice
W. J. Hankins	4.8W	1-12"								157	51	10			218	190	
P. B. Hensen	5.1W	1-12"						34	24	164	49	92	11	7	381	v 280	
Edward E. Nall (w)	6.3W	1-12"								34	1				35	30	
LOWER BUTTE CREEK AND BUTTE SLOUGH																	
Total			11090	12070	1470	0	83	5970	5938	8170	9362	6391	1869	6039	68460	10050	1794
Average cubic feet per second			186	197	24	0	1	100	97	137	153	104	31	98	95		
Monthly use in per cent of annual			16.2	17.6	2.1	0.0	0.1	8.7	8.7	11.9	13.7	9.3	2.7	8.8			

* Mileage on Butte Creek from junction with Butte Slough at Mile 0.6E.
** Mileage on Butte Slough from junction with Sacramento River at Mile 84.0L.
a Includes 100 acres reused for duck ponds and 500 acres of duck club lands which also received an undetermined amount of controlled drainage water.
b Includes an undetermined amount of water served to the acreage listed for Sacramento River Mile 89.25L.
c Includes 305 acres of duck ponds and 770 acres which were reused for duck ponds.
d Combined acreage for Miles 11.8R and 11.8R(0.5). All acreage was reused for duck ponds.
e The acreage listed for Sacramento River Mile 112.1L also received 21562 acre-feet of water from Butte Creek Mile 11.8R(2.6).
f The acreage listed for Sacramento River Mile 112.1L also received 3627 acre-feet of water from Butte Creek Mile Opp. 14.4R(0.2).
g All duck club lands.
h Formerly listed as Murdock Land Company.
i Includes 50 acres reused for duck ponds.
j One 16" unit was a temporary installation during 1959.
k This acreage also received an undetermined amount of well water.
m A 14" and on 16" unit were temporary installations during 1959.
n This acreage also received an undetermined amount of controlled drainage water.
p Replaces an 8" unit.
q Flow in Butte Slough, derived from Butte Creek, is controlled by outfall gates at junction with Sacramento River and is thereby retained in Butte Slough to discharge into East and West Borrow Pits of Sutter Bypass near "Long Bridge". The Outfall Gates are maintained by the Department of Water Resources and are operated cooperatively with the Butte Slough Irrigation Company. See Sutter Bypass Diversions.
r Includes 119 acres of Joe Marty land.
s Combined acreage for Miles 0.9E and 1.4E.
t Replaces a 6" unit.
u Includes 77 acres of C. Reische lands.
v Includes 220 acres of Hankins lands.
w Reinstallation in 1959 of a plant previously removed.

TABLE 201

DIVERSIONS AND ACREAGES IRRIGATED - SUTTER BYPASS AND SACRAMENTO SLOUGH

November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
	*					West Borrow Pit of Sutter Bypass (a)											
--SOUTHERN PACIFIC RAILROAD BRIDGE--	2.5																
C. Fred Holmes	b 8.0R	1-18"						NO DIVERSION									
--STATE HIGHWAY 24 CAUSEWAY--	12.7																
Sutter Mutual Water Company	17.5R	1-18"								135	191	176			502	313	
--SOUTH LEVEE OF TISDALE BYPASS--	18.9R																
--RECLAMATION DISTRICT 1660 GRAVITY DRAIN--	19.3R																
G. Guisti and Sons	23.7R	1-16" 1-24"	543	1000	75			1040	1700	1700	1860	1910	381		10210	c 743	379
Butte Slough Irrigation Company Limited	25.0R	Gravity					14	253	390	440	537	315			1949	d	
Butte Slough Irrigation Company Limited	28.4R	Gravity					371	1100	1820	1880	2090	2050	429		9740	d 4927	
Fred Tarke	28.6R	1-4" 1-12"						19	33	27					79	54	
G. A. Frye (e)	29.0R	1-7"					37								37	26	
--STATE HIGHWAY 20 BRIDGE--	29.1																
Fred [illegible]	29.2R	1-10"						6	12	12	25		1		56	45	
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	29.25																
	**					East Borrow Pit of Sutter Bypass (a)											
R. E. Hughes	b 0.95S	1-16"							299	276					575	470	
T. H. Richards	b 0.5S	1-18"							823	672	471	192	28		2186	301	246
--WILLOW SLOUGH--	0.0																
R. E. Hughes 7	b 0.5N	f 1-16"					36		62	328					426	400	
--RECLAMATION BOARD DRAINAGE PLANT 1--	1.4N																
Cliff P. Childers	8 (0.3)	1-16"						215	450	512	506	543	160		2386		200
Cliff P. Childers	8 (1.29)	1-16"							13	101	7	67	7		195	200	
E. H. Christensen and Sons	8 (1.32)	1-16"						161	552	515	593	491	48		2360		160
E. H. Christensen and Sons (g)	8 (1.45)	1-14"					22	121	93	123	173	122	29		h 683	i 320	
E. H. Christensen and Sons	8 (1.75)	1-16"						305	661	662	649	678	66		3021		h 430
E. H. Christensen	8 (3.3)	1-14" 1-16"								382	31	215	149		777	320	
E. H. Christensen	8 (3.5)	1-8"						118	23	192	45	189	18		585	j 320	
E. H. Christensen	8 (3.9)	1-12"						35	8	70	16	63	8		200	j	

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TABLE 201

DIVERSIONS AND ACREAGES IRRIGATED - SUTTER BYPASS AND SACRAMENTO SLOUGH (continued)

November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet	Acreage Irrigated	
			Nov.	Dec	Jan	Feb	Mar.	Apr	May	June	July	Aug	Sept	Oct.		General	Rice
E. H. Christensen	8 (4.0)	1-18"						NO DIVERSION									
E. H. Christensen (g)	8 (4.1)	1-16"						108	20	121	171	139	14		573	1	
E. H. Christensen (g)	8 (4.29)	1-16"					76	267	89	252	349	330	43		1406	320	
Rai Brothers	8 (4.3)	1-12"						NO DIVERSION									
E. H. Christensen	8 (4.35)	1-14"								280		253			533	300	
R. E. Hughes 6	b 1.5N	1-16"						126	625	705	657	686	70		2869	130	140
R. E. Hughes 5	b 2.9N	1-14"							454	359	370	370	180		1733	115	160
Neal Westrope (k)	b 4.0N	1-14" 1-16"							179	235	239				653	400	
--STATE HIGHWAY 24 CAUSEWAY--	4.3N																
Neal Westrope (k)	b 4.5N	2-14"						142	487	445	488	380	105		2047	65	118
Ira Mulligan	5.7N	1-16"								277	298				575	m 370	
R. J. Hughes 2	b 5.9N	1-14"						75	25	113	262				475	400	
J. Etcheverry	5.91N	1-14"						206	639	852	801	777	269		3544	205	205
O. O. Orrick	b 6.9N	n 1-10" 2-16"							111	50	223		2	60	446	p 220	
Ira Mulligan	7.1N	1-16"						176	282	777	353	549	71		2208	q 117	q 330
--GILSIZER SLOUGH--	8.0N																
O. O. Orrick	b 8.0N(0.45)	1-16"	115	188	41				110		217				[illegible]	r [illegible]	
Crepps and Middleton	b 9.99N	1-15"						69	383	532	518	526	68		2096	s 12[illegible]	150
Crepps and Middleton	b 10.0N	1-16"	64	48				71	108	10	86	155	239	2[illegible]3	s 1034	t 200	
--RECLAMATION BOARD DRAINAGE PLANT 2--	10.0N																
Crepps and Middleton	88 (0.3)	1-12"						65	281	275	269	173	37		11[illegible]		51
Dettling Brothers	88 (0.9)	1-20"						44							44	100	
Rodeo Rooster Club	88 (1.5)	1-3"						PLANT REMOVED									
Sutter Extension Water District	88 (2.0)	1-20" 1-30"		964		112	358	644	1030	2720	3260	2980	540	437	13040	u	u
Ira Mulligan	88 (2.3)	1-10"								26	6	21	30		83	25	
Ira Mulligan	88 (2.5)	1-16"						231	641	654	664	283			2473	q	q
Bridge Investment Company	88 (2.6)	1-16" 1-20"						629	479	499	483	328	59	227	2704	874	
Bridge Investment Company	88 (2.65)	1-16" 1-20"					108	460	1320	1110	1300	1390	441		6129	252	206
Bridge Investment Company	88 (3.0)	v 2-12"						78	406	440	603	595	306		2428	66	59
Percy Davis	88 (4.5)	1-12"		8				96	115	97	167	158	66	88	795	175	
Sutter Extension Water District	88 (6.7)	1-20"					68	148	173	303	882	693	90		2357	u	u
Federal Fish and Wildlife Service	b 11.5N	1-12"	273	180				67	297	265	299	305	270	277	2233	w 100	w 100
Federal Fish and Wildlife Service	b 16.3N	1-24" Gravity	821	1180	277			304	1160	1270	1120	1350	1130	1[illegible]	10030	w 400	w 150
R. A. Schnabel	b 16.4N	1-14"	5	3					12	16	21	6	3	10	76	x 35	
--WADSWORTH CANAL--	16.5N																
R. A. Schnabel	9 (1.0L)	1-16"	3												y 3		
Fred S. Betty	9 (1.0R)	1-10"						72	24	49	148	5	14		312	60	
H. O. Brown (z)	9 (1.35R)	ba 1-20"						272	349	587	647	603	157		2615		ab 183
A. H. Muns	9 (1.36R)	1-16"						164	424	53	10	77	10		738		ab
Vesper Kellogg	9 (1.5L)	1-14"								100	38	101	35	17	291	106	
Albert Thomasen	9 (1.7R)	1-16"						127	425	410	430	367			175[illegible]		95
--STATE HIGHWAY 20 BRIDGE--	9 (2.0)																
Epperson, Kennedy and Joaquin	9 (2.5R)	1-10"						122	237	220	234	246	61		112[illegible]	ac 28	ac 29
Clara Farrington	ad 9 (2.51R)	1-10"							2	18	13	15	18		66	ac	ac
Youill Joaquin	9 (3.0L)	1-14"						NO DIVERSION									
Gerald F. Raub	9 (3.6R)	be 1-16"						27	148	201	218	215	105		914	35	70
--GAGING STATION - WADSWORTH CANAL AT BUTTE HOUSE ROAD--	9 (3.6)																
--RECLAMATION BOARD DRAINAGE PLANT 3--	16.7N																
Fred S. Betty	99 (0.9)	1-8"						60	75		80	49	6		270	100	
Fred S. Betty	99 (1.0)	1-10"						51	37	28	92	66	11	44	329	18	
Fred S. Betty	99 (1.3)	1-14"						NO DIVERSION									
Fred S. Betty	99 (1.4)	1-16"						NO DIVERSION									
Mrs. H. C. and C. H. Epperson	99 (1.49)	1-10"						23	120	101					244	145	
Mrs. H. C. and C. H. Epperson	99 (1.5)	1-20"						NO DIVERSION									
Mrs. H. C. and C. H. Epperson	99 (1.51)	1-16"						413	880	828	874	787	101		3883		228
T. Bihlman	99 (1.85)	af 1-14"							360	228	287	369	99		1343		115

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TABLE 201

DIVERSIONS AND ACREAGES IRRIGATED - SUTTER BYPASS AND SACRAMENTO SLOUGH (continued)

November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Mrs. H. C. and C. H. Epperson	∇∇ (2.65)	1-8"						NO DIVERSION									
Elden Tarke	∇∇ (3.0)	ag 1-14" 1-16"						123	487	339	486	478	80		1993	105	ah 110
Edward Dean	b 16.7N	1-12"	78	60	4				76	78	124	39	9	121	589	ai 55	
Edward Dean	b 16.75N	1-16"						NO DIVERSION									
Frye, Bryant and Frye	b 18.6N	1-20"						PLANT REMOVED									
Epperson, Myers, DeWitt and Middleton	19.1N	1-12"							373	383	363	129			1248	aj 723	
T. S. Madden	19.9N	1-16"						226	445	427	393	407	62		1960		168
--STATE HIGHWAY 20 BRIDGE--	19.98N																
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	20.0N																
	***							Sacramento Slough									
C. Fred Holmes	1.4R	1-12"						PLANT REMOVED									
SUTTER BYPASS AND SACRAMENTO SLOUGH																	
Total			1902	3631	397	112	1090	9059	20830	24760	25740	23410	6225	2854	120000	14950	4082
Average cubic feet per second			32	59	6	2	18	152	340	416	420	382	105	47	166		
Monthly use in per cent of annual			1.6	3.0	0.3	0.1	0.9	7.5	17.4	20.6	21.4	19.5	5.2	2.4			

* Mileages on West Borrow Pit are given northerly from drain plant of Reclamation District 1500. Mile 9.15 on West Borrow Pit is opposite Chandler.
** Mileages on East Borrow Pit are given northerly or southerly from Chandler.
*** Mileages on Sacramento Slough are given easterly from drain plant of Reclamation District 1500 which is at head of slough.
8 Plant is on the main drainage canal for Drainage Plant 1 that joins East Borrow Pit of Sutter Bypass at Mile 1.4N. Figure in parentheses indicates distance along drain from East Borrow Pit.
88 Plant is on drainage canal for Drainage Plant 2 that joins East Borrow Pit of Sutter Bypase at Mile 10.0N. Figure in parentheses indicates distance along drain from East Borrow Pit.
∇ Plant is on Wadsworth canal that joins East Borrow Pit of Sutter Bypass at Mile 16.5N. Figure in parentheses indicates distance along canal from East Borrow Pit.
∇∇ Plant is on Poodle Creek that joins East Borrow Pit of Sutter Bypass at Mile 16.7N. Figure in parentheses indicates distance along creek from East Borrow Pit.
a Water used for irrigation in Sutter Bypass is mainly Feather River return water that enters East and West Borrow Pits via Butte Creek, Butte Slough and Wadsworth Canal.
b Indicates area irrigated is within bypass.
c Includes 105 acres reused for duck ponds.
d Combined acreage for Miles 25.0R and 28.4R.
e Formerly listed as Frye Brothers.
f A 14" unit was removed in 1959.
g New installation in 1959.
h 430 acres of rice listed for Mile 8 (1.75) also received an undetermined amount of water from Mile 8 (1.45).
i Combined acreage for Miles 8 (1.45) and 8 (4.1).
j Combined acreage for Miles 8 (3.5) and 8 (3.9). This acreage was double cropped.
k Formerly listed as Leona Hughee.
m Includes 160 acres of J. R. Ham Lands.
n One 10" unit was installed in 1959.
p Includes 20 acres of duck ponds.
q Combined acreage for Miles 7.1N and 88 (2.5).
r Includes 35 acres reused for duck ponds.
s 125 acres of general crops listed for Mile 9.99N also received an undetermined amount of water from Mile 10.0N.
t All duck club lands.
u See plant on Feather River Mile 38.1R.
v One 12" unit was installed in 1959.
w All duck refuge lands.
x Reused for duck ponds.
y Stock water.
z Formerly listed as H. T. and H. D. Brown.
aa Replaces a 10" and a 12" unit.
ab Combined acreage for Miles ∇ (1.35R) and ∇ (1.36). Includes 87 acres of A. H. Muns lands and 16 acres of Vesper Kellogg lands.
ac Combined acreage for Miles ∇ (2.5R) and ∇ (2.51R).
ad Previously listed as Mile ∇ (2.5R).
ae A 10" unit was removed in 1959.
af One 14" unit was removed in 1959.
ag The 14" unit was a temporary installation during 1959.
ah All R. Stohlman lands.
ai Includes 50 acres reused for duck clubs.
aj Includes acreage as follows: Epperson 235, Middleton 135, Nall 105, Madden 98, M. DeWitt 48, C. and L. DeWitt 55, and Myers 47.

TABLE 202

DIVERSIONS AND ACREAGES IRRIGATED - FEATHER RIVER

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Walter Raymond	0.6R	1-20"							99	375	201	42			717	310	
Walter Raymond	1.0R	1-18"								69	273	63	10	4	419	400	
Kipp and Reith	2.2L	1-18"						NO DIVERSION									
Walter Raymond	2.6R	2-20"						18	215	854	396	126	25		1634	540	
John C. Johnston	3.0L	1-10"						PLANT REMOVED									
Walter Raymond	4.0R	1-16"								37	48	17			102	85	
Mrs. Aileen Marty(a)	4.55L	1-18"							14	74	118	38	23		267	350	
D. R. Toledo and Son	5.2L	1-12"						5	42	48	72	111	48		326	86	
White Oak Ranch	5.6L	1-14"	4	22				209	358	282	263	244	183	153	1718	289	b 70
A. L. Haymore Estate	6.44L	1-10"						73	118	198	150	153	115	116	923	b 155	
M. Scheiber	7.7L	1-10"						78	208	184	166	184	108		928	c 209	
--NICOLAUS BRIDGE--	9.2																
--GAGING STATION - FEATHER RIVER AT NICOLAUS--	9.2L																
Leo Muller	9.25L	1-18"						8	33	57	75	35	17		225	80	
T. H. Richards	9.75R	1-20"						NO DIVERSION									
Leslie A. and Carl A. Scheiber (d)	10.3L	1-4"	22	22											44	e 3	
--BEAR RIVER--	12.0L																
Garden Highway Mutual Water Company	13.1R	2-20" 1-24"					90	2280	2990	2420	2540	2140	636		13100	1599	1488
Plumas Mutual Water Company	17.5L	2-20"	61				168	1200	1510	1350	1600	1540	675		8104	2024	52
Tudor Mutual Water Company	18.4R	2-30" 1-35"		76			249	1160	1990	1920	1590	1800	653		9438	2468	
C. C. Shannon	18.4R	1-18"					9	36	51	39	69	30			234	f 86	
Oswald Water District	21.4R	2-16"					123	362	374	367	403	299	168		2096	g 760	

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TABLE 202

DIVERSIONS AND ACREAGES IRRIGATED - FEATHER RIVER (Continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre Feet	Acreage Irrigated	
			Nov.	Dec.	Jan	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.	Oct		General	Rice
R. J. DeGloria	21.9L	1-4"						NO DIVERSION									
--GAGING STATION - FEATHER RIVER BELOW SHANGHAI BEND--	23.0R																
--YUBA RIVER--	27.3L																
--GAGING STATION - FEATHER RIVER AT YUBA CITY--	28.0L																
--5TH STREET BRIDGE--	28.0																
--10TH STREET HIGHWAY BRIDGE--	28.2																
Thomas, Di Foire, Campisi and Perrucci	30.9R	1-2½"						15	28	14	25	21	4	7	114	110	
Richard Wilbur (h)	32.3R	1-10"					6	72		25	48	38			189	165	
A. A. Sligar and Son	33.1L	1-3"						NO DIVERSION									
Henry Everett	33.2R	1-4"						NO DIVERSION									
G. D. Prindiville	33.3R	1-10"					70	15	64	162	91	41			i 443	154	
J. L. Sullivan, Jr.	33.9R	1-10"					107	152	3	142	190	173			767	i 210	
Sutter Extension Water District	38.1R	1-26" 2-42"						379	27	2000	2190	1920			6516	j,k 4429	j,k 8084
La Finca Orchard	38.5L	1-5"						NO DIVERSION									
--HONCUT SLOUGH--	43.7L																
Mathews, Sullivan and Prindiville	*(0.4L)	1-18"					278	87	246	160	334	101			1206	330	
Matsumura Brothers	*(1.2L)	1-8"					20		20	35	29	19	6		129	60	
W. J. Fairey	*(1.25L)	1-8"					6	71	43	61	68	41			290	130	
W. R. Madsen	44.0R	1-4"						NO DIVERSION									
W. Earl Willey	44.5R	1-7"								27	9	19			55	27	
Herringer Enterprise	46.3L	1-20" 1-24"					200	599	628	1970	2570	2170	194		8331	1387	
W. L. Robbins, Jr.	46.4R	1-6"						NO DIVERSION									
Manuel Aguiar	47.4L	1-7"							12	11	16	22	8	5	74	m 60	
Manuel Aguiar	47.9L	1-12"						38	157	129	164	215	130	76	m 909	n 300	
Robert S.Biggs	48.0L	1-7"							53	83	111	56			303	p 184	
Robert S. Biggs	48.3L	1-10"							53	55	81	15			p 204	246	
Bowers Ranch	49.0L	1-8"						43	14	55	56	30	12		210	113	
--GAGING STATION - FEATHER RIVER NEAR GRIDLEY--	49.7L																
--GRIDLEY BRIDGE--	49.7																
Roy Mathews	49.7L	1-6"							16	17	23	19	3		78	22	
Robinson Estate	50.4L	1-14"						NO DIVERSION									
August Boeger (q)	50.7R	1-8" 1-10"						NO DIVERSION									
M. A. Pedrozo and Sons	50.7L	1-6"	2	2				50	38	85	87	83	42	21	410	94	
A. E. Bettencourt	51.0L	1-6"						NO DIVERSION									
Steadman Orchards	51.4R	r 1-5" 1-10"					13	12	48	69	87	39			268	s 82	
S. J. and J. R. Fratus	52.1L	1-8" 1-10"						123	231	229	233	184			1000	36	60
S. J. and J. R. Fratus	52.2L	1-5"						NO DIVERSION									
Mart Butler	52.5L	1-7"	2	21			16	72	85	76	85	58	32	30	477	86	
Moe Fruitman	52.7L	1-8"						10	14	33	27	42			126	80	
Carl Lee Walker	53.3L	1-6"	18	10				20	65	96	96	91	60	40	496	b 87	
Hearst Magazines, Incorporated	55.1L	1-14"						NO DIVERSION									
Henry Haselbusch	57.9R	1-9"	19	8				9	30	24	30	6	1	22	149	48	
--SUTTER BUTTE CANAL COMPANY DAM--	57.9																
Joint Water District	t 58.1R	Gravity	6720				15900	82100	105000	97400	92900	83700	43100	24900	551700	u 18288	u 21437
--WESTERN CANAL COMPANY DAM--	61.1																
Western Canal Company	61.2R	Gravity	8180	11900	1160			18500	24700	26800	29800	25900	8820	17400	173200	3260	14779

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TABLE 202

DIVERSIONS AND ACREAGES IRRIGATED - FEATHER RIVER (Continued)

November 1958 through October 1959

Water User	Mile and Bank above mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--OROVILLE - RICHVALE HIGHWAY BRIDGE--	62.6																
--OROVILLE - CHICO HIGHWAY BRIDGE--	65.0																
--GAGING STATION - FEATHER RIVER NEAR OROVILLE--	71.0																
FEATHER RIVER																	
Total			15030	12060	1160	0	17260	107800	139600	138000	137300	121800	55070	42770	787900	39430	45970
Average cubic feet per second			253	196	19	0	281	1811	2275	2318	2235	1985	925	697	1088		
Monthly use in per cent of annual			1.9	1.5	0.1	0.0	2.2	13.7	17.7	17.5	17.4	15.5	7.0	5.4			

* Plant is located on Honcut Slough which diverts Feather River water backed into slough. Mouth of Honcut Slough is at Mile 43.7L. Distance from Feather River and bank are shown in parentheses.
a New installation in 1959.
b This acreage also received an undetermined amount of well water.
c Includes 20 acres which also received an undetermined amount of well water.
d New installation in 1958.
e All duck club lands.
f Includes 15 acres which also received an undetermined amount of well water.
g Includes 260 acres which also received 480 acre-feet of well water.
h Formerly listed as Ray Chandler.
i Acreage listed for Mile 33.9R also received an undetermined amount of water from Mile 33.3R.
j Combined acreage for plant at Mile 38.1R, the Sutter Extension Water District diversion at Mile 58.1R and the plants on Sutter By-Pass, East Borrow Pit at Mile 10.0N (2.0) and (6.7).
k This acreage also received an undetermined amount of controlled drainage water.
m 30 acres listed for Mile 47.4L also received an undetermined amount of water from Mile 47.9L.
n Includes 200 acres which also received an undetermined amount of well water.
p 61 acres listed for Mile 48.0L also received an undetermined amount of water from Mile 48.3L.
q Formerly listed as S. T. Machado.
r The 5" unit was temporarily installed in 1959.
s All Chambers lands.
t This is a common point of diversion for Butte Water District, Biggs - West Gridley Water District, Richvale Irrigation District and Sutter Extension Water District. In 1959 and all subsequent years the diversion will be reported as total diversion with no breakdown as to amounts to each district.
u This figure includes 12,639 acres of general crops and 1,713 of rice for Butte Water District, 4684 acres of general crops and 8069 acres of rice for Biggs - West Gridley Water District, and 965 acres of general crops and 11,655 acres of rice for Richvale Irrigation District. See Mile 38.1R for Sutter Extension Water District acreage.
v Includes 8176 acre-feet in November, 11935 acre-feet in December, 1160 acre-feet in January, 1993 acre-feet in September and 17,381 acre-feet in October for duck water.

TABLE 203

DIVERSIONS AND ACREAGES IRRIGATED - YUBA RIVER

November 1958 through October 1959

Water User	Mile and Bank above Marysville	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct Acre-Feet	Acreage Irrigated	
			Nov	Dec	Jan.	Feb.	Mar	Apr.	May	June	July	Aug	Sept	Oct.		General	Rice
--HIGHWAY 99E BRIDGE (D STREET)--	0.0																
Richard Wilbur	0.9L	1-6" a 1-12"					60	63	47	125	273	54			622	b 202	
--SIMPSON LANE BRIDGE--	0.9																
Ben Williams	1.4R	c 1-6"						5	6	7	6	4			28	6	
Lorin Trubschenck	1.8R	1-6"						NO DIVERSION									
W. B. Harrington	2.2L	1-4" 1-5"						NO DIVERSION									
River Bend Ranch	3.0L	1-14"					218	62	94	223	293	275	34		1199	b 360	
G. D. Lolmaugh	3.1R	1-10"					19	17	4	26	19	10	9		104	26	
Richard Wilbur	4.1L	1-5" 2-14"						196	503	701	723	495	322		2940	b 350	
Di Giorgio Fruit Corporation	4.75L	1-8"					72	52	77	57	9	18	47	26	358	b,d 384	
Di Giorgio Fruit Corporation e	5.15L	1-6"							32	22			39	23	116	b,d	
--GAGING STATION - YUBA RIVER NEAR MARYSVILLE--	5.2L																
Scott Hendricks	f 5.75L	g 1-14"						262	485	513	208	115	15		1598	300	
--DAGUERRE POINT DAM--	11.0																
Hallwood Irrigation Company	11.0R	Gravity	3200	3790	934		5020	13800	16500	16500	16200	15600	9650	5600	106800	h 5372	j 1898
Cordua Irrigation District	11.0R	Gravity	6430	8300	2390		544	9390	12800	11600	11600	11200	8400	6430	89080	k 3421	m 3100
--DRY CREEK--	13.1																
Yuba Consolidated Gold Field Company	14.5L	Gravity						NONAGRICULTURAL USE									
--HIGHWAY 20 BRIDGE--	17.1																
--DEER CREEK--	21.8L																
--ENGLEBRIGHT DAM--	22.8																
YUBA RIVER																	
Total			9630	12090	3324	0	5933	23850	30550	29770	29330	27770	18520	12080	202800	10420	4998
Average cubic feet per second			162	197	54	0	97	401	498	500	478	453	311	197	280		
Monthly use in per cent of annual			4.7	6.0	1.6	0.0	2.9	11.8	15.1	14.7	14.5	13.7	9.1	6.0			

a Replaces a 10" unit.
b This acreage also received an undetermined amount of well water.
c A 4" unit was removed in 1959.
d Combined acreage for Miles 4.75L and 5.15L.
e New installation in 1959.
f Plant moved from Mile 6.2L in 1959.
g Replaces 1-12" unit.
h Of this acreage, 33 was reused for duck clubs.
j Of this acreage, 780 was reused for duck clubs.
k Includes 297 acres outside district and 110 acres reused for duck ponds.
m Includes 124 acres outside district and 2227 acres reused for duck ponds.

TABLE 204

DIVERSIONS AND ACREAGES IRRIGATED - BEAR RIVER

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--MARYSVILLE - NICOLAUS COUNTY ROAD BRIDGE--	2.7																
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	3.4																
--WESTERN PACIFIC RAILROAD BRIDGE--	3.9																
--DRY CREEK--	4.5R																
--TROWBRIDGE - WHEATLAND COUNTY ROAD BRIDGE--	6.8																
W. H. Gilbert	8.1R	1-6"					11	18							29	a 50	
California Packing Corporation	9.0L	1-8"					11								11	a 77	
California Packing Corporation	10.7L	1-10"					66	136	10	26	11	18	47		314	a 230	
--HIGHWAY 99E BRIDGE--	11.3																
--GAGING STATION - BEAR RIVER NEAR WHEATLAND--	11.3																
--SOUTHERN PACIFIC RAILROAD BRIDGE--	11.35																
BEAR RIVER																	
Total			0	0	0	0	88	154	10	26	11	18	47	0	354	357	0
Average cubic feet per second			0	0	0	0	1	3	0	0	0	0	1	0	0		
Monthly use in per cent of annual			0.0	0.0	0.0	0.0	24.9	43.5	2.8	7.3	3.1	5.1	13.3	0.0			

a This acreage also received an undetermined amount of well water.

TABLE 205

DIVERSIONS AND ACREAGES IRRIGATED - AMERICAN RIVER

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June	July	Aug	Sept.	Oct		General	Rice
--GARDEN HIGHWAY BRIDGE--	0.2																
--HIGHWAY 40 AND 99E BRIDGE (16TH STREET)--	1.9																
--WESTERN PACIFIC RAILROAD BRIDGE--	2.1																
Joe Gomez	2.4L	1-5"							1	4	2	4	2		a 13	4	
North Sacramento Land Company (b)	2.65R	1-8"						NO DIVERSION									
North Sacramento Land Company (b)	2.75R	c 1-8"									22	15			37	32	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	3.0																
--ELVAS FREEWAY BRIDGE--	3.2																
--GAGING STATION - AMERICAN RIVER AT SACRAMENTO (H STREET)--	6.0																
E. Clemens Horst Company	6.5	1-6"	11						31	54	51	14			161	d,e 393	
E. Clemens Horst Company	7.0R	1-4"						NO DIVERSION									
E. Clemens Horst Company	7.5R	1-8"	9						47	110	104	35			305	d,e	
J. I. Haas, Incorporated	7.7R	1-4"	10	8	1			11	26	33	34	16		11	150	80	
Del Paso Rock Products Company	8.9R	1-1½"						NONAGRICULTURAL USE									
Walter J. Wissemann	9.0L	1-6"							4	39	44	1	2		90	37	
G. L. Browning	9.05R	1-5"						NO DIVERSION									
J. G. and F. F. Dauenhauer	9.2L	1-4"							6	26	24	12			68	60	
Ruth Coleman	9.4L	1-5"							15	20	20	20	24		99	e 149	
Del Paso Rock Products Company	10.2R	1-8"						NO DIVERSION									
Gold Nugget Orchard Company	10.4R	1-5"						6		19	12	5	6		48	17	
Mucke Sand and Gravel Company	11.2L	1-4"	2	1			1	2	2	7	8	9	6	4	42	f 24	
J. T. Gore	11.5L	1-4"						3	28	32	37	26	22	7	155	45	
Riverview Enterprises	11.7L	1-4"							1	14	12				27	30	
Carmichael Irrigation District	13.9R	1-14"		14					270	419	425	243			1371	e,g	
J. R. Deterding	15.8R	1-4"								2	16	15	3		36	75	
Carmichael Irrigation District	16.0R	1-6" 3-12"	321	156			204	617	795	1080	940	784	589	526	6012	4255	

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TABLE 205

DIVERSIONS AND ACREAGES IRRIGATED - AMERICAN RIVER (continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--FAIR OAKS BRIDGE--	19.0																
--BRIDGE STREET BRIDGE - (OLD FAIR OAKS BRIDGE)--	19.2																
--GAGING STATION - AMERICAN RIVER AT FAIR OAKS--	19.2R																
AMERICAN RIVER																	
Total			353	179	1	0	205	639	1226	1859	1751	1199	654	548	8614	5201	0
Average cubic foot per second			6	3	0	0	3	11	20	31	28	19	11	9	12		
Monthly use in per cent of annual			4.1	2.1	0.0	0.0	2.4	7.4	14.2	21.6	20.3	13.9	7.6	6.4			

a Includes an undetermined amount of water served to the sanitary fill of the City Dump.
b Formerly listed as North Sacramento Lands Company.
c Replaces a 5" unit.
d Combined acreage for Mile 6.5R and 7.5R.
e This acreage also received an undetermined amount of well water.
f This acreage was double cropped.
g Combined acreage for Mile 13.9R and 16.0R. District is suburban land and no segregation of irrigated acreage is available.

TABLE 206

DIVERSIONS AND ACREAGES IRRIGATED - PUTAH CREEK*

November 1958 through October 1959

Water User	Mile and Bank above mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan	Feb.	Mar	Apr.	May	June	July	Aug.	Sept	Oct		General	Rice
T. S. Glide	0.8L	a 1-6"						17	10						27	b 36	
T. S. Glide (c)	1.6R	1-16"							17						17	d 157	
William C. Hamel	2.1R	1-4"						NO DIVERSION									
William C. Hamel	2.7R	1-10"						7	2	44					53	e 45	
William C. Hamel	3.0L	1-4"						NO DIVERSION									
H. Marden Wilber	3.1R							NO DIVERSION									
--COUNTY LINE ROAD BRIDGE--	3.8																
--GAGING STATION - SOUTH FORK PUTAH CREEK NEAR DAVIS--	7.2																
--SOUTHERN PACIFIC RAILROAD BRIDGE--	7.5																
--U.S. HIGHWAY 40 BRIDGE--	8.0																
--WILLOW CANAL WASTEWAY--	8.8																
--GAGING STATION - PUTAH CREEK NEAR DAVIS--	9.0																
--PLAINFIELD ROAD BRIDGE--	10.0																
C. B. and Cornelia S.Phillips	12.65R	1-6"						NO DIVERSION									
--GAGING STATION - PUTAH CREEK ABOVE DAVIS--	12.8																
--STEVENSON ROAD BRIDGE--	12.8																
Sam F. and Marie Dorton	13.1L	1-5"						NO DIVERSION									
Fentzling Ranch	13.9L	1-7"						NO DIVERSION									
--GAGING STATION - PUTAH CREEK BELOW WINTERS (BOYCE ORCHARD)--	17.0																
William H. Boyce	17.1R	1-6"						3	148						151	e 205	
A.C.A. Orchards	19.3L	1-4"						4	9	3					16	e 62	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	19.9																
--COUNTY ROAD BRIDGE--	19.9																
--PUTAH DIVERSION DAM--	22.6																
--PUTAH SOUTH CANAL--	22.6R																
Jack and Grace Fay	24.0R	1-3"						4	7	7	3	7	2		30	22	
--COUNTY ROAD BRIDGE--	24.0																
Victor Tucker	24.0L	1-2"						1	3	1					5	7	
Mabel Goddard, et al.	24.9R	f 1-3"	3	2			2	10	29	31	61	41	12	22	213	72	
Mabel Goddard, et al.	25.2R	1-2½"							10	1	12		1		24	20	
L. A. and Clara Sackett	25.6R	1-3"		2				2			6	6	2		18	g 69	
L. A. and Clara Sackett	25.8R	1-3"							6	5	10				21	g	
--GAGING STATION - PUTAH CREEK NEAR WINTERS--	27.8L																
Samuel S. Silvey	28.4L	1-1½"					2	2		3	3	3	2	3	h 18		

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TABLE 206

DIVERSIONS AND ACREAGES IRRIGATED - PUTAH CREEK* (continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan.	Feb	Mar	Apr	May	June	July	Aug.	Sept	Oct.		General	Rice
Samuel S. Silvey (c)	28.6L	1-2"								2	2	1	1	1	1 7		
--HIGHWAY 128 BRIDGE--	28.8																
--MONTICELLO DAM --	29.3																
PUTAH CREEK																	
Total			3	4	0	0	4	50	241	97	97	58	20	26	600	695	D
Average cubic feet per second			0	0	0	0	0	1	4	2	2	1	0	0	1		
Monthly use in per cent of annual			0.5	0.7	0.0	0.0	0.7	8.3	40.2	16.2	16.2	9.7	3.3	4.3			

* Diversions shown in this table below Mile 7.2 are considered as Delta Uplands diversions.
a Replaces a 16" unit.
b The acreage listed for Mile 0.8L also received an undetermined amount of water from Yolo Bypass-West Cut, Mile 17.1R(1.8).
c New installation in 1959.
d The acreage listed for Mile 1.6R also received an undetermined amount of water from Yolo Bypass-West Cut, Mile 17.1R(1.8).
e This acreage also received an undetermined amount of well water.
f A 24" unit was removed in 1959.
g Combined acreage for Miles 25.6R and 25.8R.
h This diversion for stock water, domestic and garden use.
i This diversion for stock water and garden use.

TABLE 207

DIVERSIONS AND ACREAGES IRRIGATED - COSUMNES RIVER*

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--WESTERN PACIFIC RAILROAD BRIDGE--	0.4																
R. L. Deller	0.8R	1-12"						22	31	40	34	30	15	12	184	45	
R. L. Deller	1.7R	1-10"								17	14				31	45	
Kenworthy and Patterson	2.0L	1-30"					31	535	759	676	739	757	199		3696	310	118
Nicolaus Ranch	2.8R	1-6"						NO DIVERSION									
A. N. Watson	2.8L	a 1-7"							35	5	45	33			118	b,c 67	
Nicolaus Ranch	3.1R	1-10"						NO DIVERSION									
--STATE HIGHWAY 104 BRIDGE--	5.3																
Fred G. Cary	6.0L	1-3"						NO DIVERSION									
L. G. Kilkaary and H. Trevor	9.8R	1-16"						NO DIVERSION									
Jack Lewis	10.5R	1-8"			20			110	52						182	d 75	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	10.6																
--U.S. 50 AND 99 HIGHWAY BRIDGE--	10.7																
--GAGING STATION - COSUMNES RIVER AT McDONNELL--	10.7																
J. C. Garli	14.3R	1-10"							9	10					19	b 40	
M. F. Larkin	14.6L	1-5"						NO DIVERSION									
--FREEMAN ROAD BRIDGE--	14.9																
Ralph Nix	15.2L	1-8"						NO DIVERSION									
J. I. Nix	15.8L	1-4"						NO DIVERSION									
Ralph Nix	15.9L	1-6"						NO DIVERSION									
--WILTON ROAD BRIDGE--	16.8																
--CENTRAL CALIFORNIA TRACTION COMPANY RAILROAD BRIDGE--	16.8																
George D. Baitzel	18.2R	1-12"								31		4	6	3	44	b 109	
Bradley Ranch	18.9R	1-6"						NO DIVERSION									
Bright Estate	20.1R	1-10"					78	334	316	253	151	248	27	4	1411	b 300	
F. Barbero	21.6L	1-6"						NO DIVERSION									
J. F. Patterson	21.9R	1-6"						NO DIVERSION									
Rooney Brothers	23.7R	1-12"								99	40				139	b 125	
Gothrin and Grimshaw	24.4R	1-8"							16	51	30			20	117	b 69	
Francis Rooney	24.5R	1-12"								41	27				68	b 65	
--DILLARD ROAD BRIDGE--	24.8																
--RECORDING GAGE--	24.85																
P. Westerbarg	25.5R	1-10"	18	15					25	96	32	11			197	e 125	
A. V. Signorotti	25.7R	1-3"						NO DIVERSION									
F. M. Grimshaw	25.9R	1-8"						NO DIVERSION									
A. V. Signorotti	26.3R	1-5"								10	7				17	14	
F. M. Grimshaw	26.4R	1-6"						NO DIVERSION									
G. C. Johnson	26.5L	1-6"		1					1	6					8	f 202	

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TABLE 207

DIVERSIONS AND ACREAGES IRRIGATED - COSUMNES RIVER* (continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
G. G. Johnson	27.3L	1-5"							45	90	79	19	6		239	f	
Robert B. Mearns (g)	27.6R	h 1-7"							17	29	31	19	1		97	24	
F. Silva, Jr.	27.8L	1-6" 1-8"						29	192	210	225	99		15	770	b 165	
Robert B. Mearns (g)	28.6R	1-8"								76	23	72	14		185	51	
Schneider Ranch	30.0L	1-8"	10	6			74	108	108	121	121	118	59	66	791	105	
Schneider Ranch (i)	30.6L	1-10"								69	50	46	4		169	60	
--STATE HIGHWAY 16 BRIDGE--	31.3																
A. Granlees	32.6R	1-4"							25	74	74	60	14	8	255	86	
--GRANLEES DAM--	33.0																
Cosumnes River Irrigation Association (j)	33.0R	Gravity	113	133	87	61	129	440	783	1620	806	497	442	608	k 5719	717	
--GAGING STATION - COSUMNES RIVER AT MICHIGAN BAR--	34.3																
COSUMNES RIVER																	
Total			141	155	107	61	312	1578	2414	3624	2528	2013	787	736	14460	2799	118
Average cubic feet per second			2	3	2	1	5	27	39	61	41	33	13	12	20		
Monthly use in per cent of annual			1.0	1.1	0.7	0.4	2.2	10.9	16.7	25.1	17.5	13.9	5.4	5.1			

* Diversions shown in this table below the McConnell gaging station are considered as Delta Uplands diversions. Tidal effect ceases at about Mile 3.5.
a Replaces an 8" unit.
b This acreage also received an undetermined amount of well water.
c Includes 20 acres of Desmond lands.
d This acreage also received an undetermined amount of well water and controlled drainage water.
e Includes 25 acres which also received an undetermined amount of well water.
f Combined acreage for Miles 26.5L and 27.3L. This acreage also received an undetermined amount of well water.
g Formerly listed as R. Sartain.
h Replaces a 6" unit.
i New installation in 1959.
j Formerly listed as Cosumnes River Water District.
k Includes an undetermined amount of spill to the Cosumnes River.

TABLE 208

DIVERSIONS AND ACREAGES IRRIGATED - MOKELUMNE RIVER*

November 1958 through October 1959

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Egbert O. Morse	4.7R	1-12"								70	93	35			198	155	
--FRANKLIN - THORNTON HIGHWAY BRIDGE--	4.9																
--COSUMNES RIVER--	5.0R																
--WESTERN PACIFIC RAILROAD BRIDGE--	5.4																
Manuel Lopes	6.6R	1-12"					7	5	44	127	211	133	19	6	552	408	
Thornton Farms	6.9R	1-8"							3	4	5	4			16	13	
--GALT - THORNTON HIGHWAY BRIDGE--	7.0																
Thornton Farms	7.6R	2-12"						38	633	784	962	738	303		3458	a 681	154
Thornton Farms	8.1R	1-12"						NO DIVERSION									
Albin G. Steffan	8.7R	1-12"	17					99	129	155	164	156	112	37	869	100	
S. and J. Prandy	10.4L	1-12"		3				13	36	36	50	30	20	9	197	57	
Albin G. Steffan	10.6R	1-16"	103					544	649	629	620	612	390	332	3879	479	
Albin G. Steffan (b)	12.7R	1-12"						94	103	225	337	283	110	91	1243	285	
A. Taddei	14.2R	1-6"						NO DIVERSION									
G. Blattler	15.5R	1-4"	3				3	8	10	11	11	14	6	4	70	12	
A. Taddei	15.6R	1-6"								45	30	12	5		92	75	
R. J. Linde	16.8R	1-6"						4	51	24	16	9			104	112	
--GAGING STATION - MOKELUMNE RIVER AT WOODBRIDGE--	19.2																
--SACRAMENTO ROAD BRIDGE--	19.8																
--WOODBRIDGE IRRIGATION DISTRICT DAM--	19.9																
Woodbridge Irrigation District	19.9L	Gravity	8130	5130			6030	7760	11000	15000	15600	14600	8870	7400	99520	c 14669	
LeMoin Beckman	21.1L	1-5"						NO DIVERSION									
Arthur J. Hoffman	21.85R	1-6"						46	36						82	35	
Sidney Walsey	22.5R	1-2" 1-5"						4							4	12	
Howard Mason	22.7L							NO DIVERSION									
Cecil V. and Evelyn P. Mumbert (d)	23.4R	1-4"						6	27	13	2				48	20	

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TABLE 208

DIVERSIONS AND ACREAGES IRRIGATED - MOKELUMNE RIVER* (continued)

November 1958 through October 1959

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.	Oct		General	Rice
L. R. Sanguinetti	23.4L	1-6"						3	4	3	2	3			15	e 8	
M. M. Bender	23.5R	1-4"						DOMESTIC USE ONLY									
--SOUTHERN PACIFIC RAILROAD BRIDGE--	23.6																
Ben Bechthold	24.0L	1-4"		2				14		11	9	7			43	18	
--HIGHWAY 99 BRIDGE--	24.2																
Litts, Mullen and Perovich	24.45L	1-5"								16	3	1			20	7	
Lawrence Ranch	24.5L	1-6" 1-10"						13	87	79	64	6			249	103	
S. and M. Miller	24.8L	1-6"							6	6	6	2	4		24	12	
Ray A. Mettler (f)	25.2R	1-10"						135		2	2		1		140	67	
W. A. Cohick	25.5L	1-4"						2	4	5	1	10			22	22	
--CENTRAL CALIFORNIA TRACTION COMPANY BRIDGE--	25.6																
Robert N. Lind	26.3L	1-5"	17					11		19	19	9			75	19	
Richard Wagers	26.35L	1-4"					1	1	2	3	2	3	2	1	15	5	
Truman Sabine (g)	26.9R	1-5"								22	28	32	13		95	72	
Nakagawa Brothers	27.2R	1-8"						NO DIVERSION									
Irene Green	27.5L	1-5"						82	35		8	5			130	37	
R. J. Linde	27.6L	1-8"						1	14	7	6				28	20	
A. E. Joena	27.9L	1-10"					113	204	70						387	110	
Frankie G. Dick	28.5L	h 1-5"									3				3	10	
Nakagawa Brothers	28.6R	1-6"						8	31	53	90	50	17	4	253	126	
L. J. Paterson	28.9L	1-4"						NO DIVERSION									
W. E. Mehlhaff	29.9R	1-8"						62	73	29	5	5	1		175	68	
E. Bender	30.0L	1-10"						2	5	8	17	11	3	1	47	18	
--BRUELLA ROAD BRIDGE--	30.0																
V. W. Hoffman and Sons	30.15R	1-8"					26	17	36	53	68	36	21		257	69	
N. N. Davis	30.35R	1-6"						25	31	18	15	38	8	7	142	50	
J. J. Schmiedt	30.95L	1-7"								24	29	36			89	57	
Leon Kirschenmann and Leonard Pressler, et al.	31.0L	1-8"	3				12	144	135	89	55	14	1		453	154	
V. W. Hoffman and Sons (i)	31.45R	1-5"							5	21	18	16	4		64	30	
Rosa D. Soucie	31.7L	1-5"						NO DIVERSION									
John Graffigna	31.8R	1-7"						12	12	22	19	16	4		85	32	
Jones Ranch	32.0L	1-6"						NO DIVERSION									
North San Joaquin Water Conservation District	32.3L	1-12" 1-18"		1			15	2	26						44	j 440	
L. J. Paterson	32.5L	1-5"	2					4	9	19	9	17	4	7	71	15	
Red Checker Ranch (k)	32.75R	1-5"						10		8	3				21	e 108	
C. M. Locke	33.25L	1-10"						32	1	37	25	48	19		162	133	
Acampo Vineyards	33.45R	1-8"							4	3	3				10	9	
Acampo Vineyards	33.6R	1-8"						50	12	50	54	39			205	110	
Niel C. Locke	33.7L	1-12"						104	120	144	183	165	160		876	341	
R. T. McCarty	33.75L	1-10"						PLANT REMOVED									
T. and E. Schmierer	33.8R	1-4"					5	3	9	13	12	8	6	2	58	15	
R. T. McCarty	m 34.0L	1-8"									45	31	20		96	60	
Pritam Singh Dhaliwal	34.05R	1-4"						4	3	4	5	4	1		21	14	
Norman Knoll	34.1R	1-4"						37	11	24	28	12	8		120	n 53	
Norman Knoll	34.3R	1-4"					1	21	8	9	21				60	19	
--COUNTY ROAD BRIDGE--	34.35																
J. B. Ward	34.5R	1-4"						3		8	5	9			25	13	
E. L. Corwin and Son (p)	34.55L	1-10"	35	29			11	59	61	66	62	43	34	17	417	32	
Kenneth H. Beckman	34.6R	1-5"						4		8	5	2			19	15	
N. C. Russell	34.75L	1-12"					24	73	62	108	70	47			384	158	
E. R. Thomas	35.15R	1-6"						15	48	70	72	58	12		275	q 205	
Don Locke (r)	35.2L	1-8"	3				1	24	18	52	43	35	16	5	197	80	
Manuel Machedo	35.4L	1-8"	5				7	39	18	53	58	43	15		238	133	
Boyce Van Patten	35.5R	1-8"								14	71	93	38		216	s 160	
Dr. Raymond Mehlhaff	35.7L	1-6"	2				1	5	25	32	30	18	10	5	128	66	
I. H. Quessenberry	35.9L	1-7"					2	22	26	33	37	21	18		159	65	
W. S. Montgomery	36.0L	1-6"	9				1	31	40	42	63	41	28	11	266	t 214	
Boyce Van Patten	u 36.2R	1-6"									74	129	79		282	s	
Mrs. Ossie Parker (v)	36.45L	1-12"						12	122	177	116	83	119		629	130	
J. R. Wiederrich	37.15L	1-10"								54	27				81	40	
W. L. Moffat	37.45R	1-8"		81						22	32	31	22		188	133	
W. L. Moffat	37.65L	1-10"		36	104						57	27			224	90	

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TABLE 208

DIVERSIONS AND ACREAGES IRRIGATED - MOKELUMNE RIVER* (continued)

November 1958 through October 1959

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept	Oct		General	Rice
Costa Estate	37.7R	1-12"							10	22	29	15			76	30	
C. and F. Sanguinetti	38.0L	2-6"						3	58	71	62	22	35		251	68	
C. and F. Sanguinetti	38.1L	1-8"	7	7			7	32	27	33	30	61	14	24	242	62	
Rudolph Sutter	38.3L	1-10"	1				1	8	33	44	38	36	23		184	85	
Gertrude W. Chrisman	38.5L	1-12"						3	18	7	51	47	40		166	80	
Clements Estate	39.0L	1-12"	82	79	2	1	1	285	383	448	470	448	200	296	2695	313	
McGee Ranch	39.25L	1-5"							4	3	8	9			24	15	
--HIGHWAY 88 BRIDGE--	39.3																
--GAGING STATION - MOKELUMNE RIVER NEAR CLEMENTS--	39.35																
MOKELUMNE RIVER																	
Total			8419	5368	106	1	6269	10240	14430	19290	20470	18570	10840	8259	122300	21730	154
Average cubic feet per second			141	87	2	0	102	172	235	324	334	303	182	135	169		
Monthly use in per cent of annual			6.9	4.4	0.1	0.0	5.1	8.4	11.8	15.8	16.7	15.2	8.9	6.8			

* Diversions shown in this table below the Woodbridge Gaging Station are considered as Delta Uplands Diversions. Left bank diversions into Reclamation District 348 (below Mile 9.8) and right bank diversions into McCormack-Williamson Tract (below Mile 3.5) are not included since these areas are considered to within the Delta Lowlands. Tidal effect ceases at about Mile 10.5.
** Mile and Bank above New Hope Bridge.
a This acreage also received an undetermined amount of water from Dry Creek.
b Installed prior to 1959. Not previously listed.
c Includes 503 acres outside the District and 4586 acres of the Woodbridge Water Users Conservation District.
d Formerly listed as Nora E. Mumbert.
e This acreage also received an undetermined amount of well water.
f Formerly listed as Kirschenmann and Mettler.
g Formerly listed as Vasco Mencarini.
h Replaces a 4" unit.
i New installation in 1959.
j This acreage received its main source of water from wells and controlled drainage.
k Formerly listed as Red Checker Land Company.
m Replaces plant previously listed at Mile 33.75L.
n Includes 25 acres of Graffigna lands.
p Formerly listed as H. C. Russell.
q Includes 155 acres which also received an undetermined amount of well water.
r Formerly listed as E. M. Locke.
s Combined acreage for Mile 35.5R and 36.2R.
t Includes 127 acres which also received an undetermined amount of well water.
u Reinstallation in 1959 of a plant previously removed.
v Formerly listed as O. Parker.

TABLE 209

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER*

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept.	Oct.		General	Rice
Inman Reality Company	1.8L	1-12"						NO DIVERSION									
Clair E. Heitman	2.2L	1-4"									1				1	2	
Weiershauser, Ghiorzo and Piccardo	2.5R	1-12"						19	9	58	53	48	15	23	225	44	
John Santa Maria	2.9L	1-4"	1												1		
--PACIFIC AVENUE BRIDGE--	3.7																
Charles M. Weber	4.4R	2-6"						NO DIVERSION									
--SOUTHERN PACIFIC RAILROAD BRIDGE--	5.3																
--STOCKTON DIVERTING CANAL--	5.4L																
Roy Moresco	5.7L	1-14"								31					31	a 35	
Claude Moresco	6.0L	1-5"						NO DIVERSION									
A. Toso	6.2L	1-4"								5					5	a 16	
--U.S. 50 AND 90 HICHWAY BRIDGE--	6.8																
--GAGING STATION - CALAVERAS RIVER NEAR STOCKTON--	7.3																
--CHERRYLANO ROAD DAM--	7.3																
A. Vignola and Son (b)	7.3L	1-12"								62					62	a 100	
V. C. Blakley (b)	7.4L	1-2½"								11	1				12	a,c 22	
J. L. Filipella (b)	7.6L	1-10"								23	2				25	a 26	
--CENTRAL CALIFORNIA TRACTION COMPANY RAILROAD BRIDGE--	7.9																
J. N. Sanguinetti	8.3L	1-6"								8					8	a 20	
A. V. Lagorio	8.5L	1-6"						NO DIVERSION									
--SOLARI ROAD BRIDGE--	8.8																
--SOLARI ROAD DAM--	8.85																
E. Leonardini	9.1R	1-4"								1					1	a 26	
Uyeda Brothers	9.9L	1-6"								28					28	a 64	
Rugani Brothers	9.9R	1-6"								22					22	a 54	
Fred Podesta, Jr.	10.1R	1-8"								11					11	a 5	
N. and R. Sanguinetti	10.2R	1-8"	2							27					29	a 25	

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TABLE 209

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER* (continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--ALPINE ROAD BRIDGE--	10.6																
John B. Garibaldi	11.0L	1-5"								14					14	a 33	
John Arata	11.2L	1-5"						NO DIVERSION									
Irene Saccone	11.4L	1-4"								27					27	a 40	
Frank Solari	11.4R	1-6"								53					53	a 95	
--PEZZI DAM--	11.8																
Julia Pezzi and Sons	11.8R	Gravity								55					55	a 63	
Julia Pezzi and Sons	11.82L	Gravity								12					12	a,d 30	
Julia Pezzi and Sons	11.85L	Gravity								18					18	d	
A. Navone	11.85R	Gravity								7					7	a,e 8	
Julia Pezzi and Sons	11.95L	Gravity								30					30	a,f 30	
A. Navone	11.95R	Gravity								6					6	e	
Julia Pezzi and Sons	12.0L	Gravity								24					24	f	
Julia Pezzi and Sons	12.05L	Gravity								35					35	f	
Julia Pezzi and Sons	12.1L	Gravity								11					11	a,g 22	
Julia Pezzi and Sons	12.15L	Gravity								20					20	g	
--MURPHY DAM--	12.3																
S. Sciutti	12.3L	Gravity								18					18	a 21	
L. Freggiaro and Son	12.3R	Gravity								21					21	a 20	
Tony Pastore	12.35L	Gravity								6					6	a,h 13	
G. Freggiaro and Son	12.39R	Gravity						NO DIVERSION									
G. Freggiaro and Son	12.41R	Gravity								11					11	a 20	
C. Bava and Son	12.42R	Gravity								89					89	a,j 96	
Vic Freggiaro	12.43R	Gravity								4					4	a,j 6	
Vic Freggiaro	12.45R	Gravity								4					4	j	
Vic Freggiaro	12.5R	Gravity								32					32	a 21	
Tony Pastore	12.5L	Gravity						NO DIVERSION									
Tony Pastore	12.6L	Gravity								6					6	h	
Vic Freggiaro	12.6R	Gravity								8					8	a 4	
--STATE HIGHWAY 88 BRIDGE--	12.7																
Tony Pastore	12.8L	Gravity						NO DIVERSION									
Percy Pope	12.9R	Gravity						NO DIVERSION									
Ed O. Brandstad	13.6R	1-6"								2					2	a 2	
Fred Podesta	13.9L	1-14"								112					112	a 160	
Dewey Leffler	13.9R	1-8"								10					10	a 21	
N. Tassano	14.0R	1-8"								19					19	a 30	
Henry Foppiano	14.1L	1-5"						NO DIVERSION									
J. Schiaffini	14.4R	1-4"								11					11	a 20	
Angelo Grattona	14.5R	1-12"								135					135	a 191	
--EIGHT MILE ROAD BRIDGE--	14.55																
--EIGHT MILE ROAD DAM--	14.7																
L. and R. DeVincenzi	14.8R	1-6"								74					74	a 125	
Dave V. Sanguinetti	15.1L	1-5"								41					41	a 55	
A. Girardi	15.4R	1-12"								56					56	a,k 155	
J. N. Tone	15.7L	1-10"								16					16	a 91	
--JACK TONE ROAD BRIDGE--	15.8																
John Plotz	16.0R	1-5"								32					32	a 38	
L. A. Cademartori	16.2L	1-5"								46					46	a 62	
Joe Phillips	16.5L	1-6"						NO DIVERSION									
C. Paoletti	16.6L	1-5"								14					14	a 33	
E. G. Guthrey	16.65R	1-5"						NO DIVERSION									
Reno Paoletti	16.7L	1-4"								13					13	a 18	
Lawrence Zolezzi	16.8L	1-6"								32					32	a 32	
Mario and John Boggiano	17.3L	1-10"								7					7	a 10	
E. N. Ladd (m)	17.3R	1-10"								33					33	a 70	
George Hansen	17.6R	1-8"								43					43	a 48	
--TULLY ROAD BRIDGE--	17.8																
--TULLY ROAD DAM--	17.85																
Steve Solari	18.4L	1-8"								166					166	a 286	
Rugani Brothers	18.5L	1-8"								24					24	a 57	
Joe Landoni	19.3R	1-5"								23					23	a 38	
E. P. Messick Estate (n)	19.8R	1-5"								5					5	a 3	
B. E. Stagnaro	19.8L	1-8"								39					39	a 18	
A. Delucchi	19.9L	1-4"								6					6	a 9	

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TABLE 209

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER* (continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept.	Oct.		General	Rice
L. Vaccarezza	20.1L	1-5"								16					16	a 34	
E. Brennan	20.3L	1-10"								4					4	a 20	
G. Pacini	20.4L	1-3"								9					9	a 10	
Edward Ginnecchini	20.6L	1-5"								18					18	a 20	
H. S. and A. R. Guarnaey	20.9R	1-8"								79					79	a 164	
F. and M. Arboco	21.0L	1-4"								14					14	a 38	
Frank Giannecchini	21.01L	1-5"						NO DIVERSION									
--CLEMENTS ROAD BRIDGE AND DAM--	21.1																
E. W. Marciano and D. Canepa	21.1L	Gravity								115					115	a 190	
Albert Metzler	21.11L	Gravity								56					56	57	
Mailand Ferrill	21.3L	1-4"						PLANT REMOVED									
R. A. Lundblad (b)	21.35R	1-8"								22					22	a 32	
O. Giordano	21.4L	1-4"								1					1	a 8	
Domonick Figone	21.5L	1-5"								20					20	a 30	
--NORTH SLOUGH--	21.6R																
--NORTH SLOUGH CONTROL GATES--	** (0.0)																
F. Harrison	** (1.3L)	1-4"								4					4	a 14	
L. Robinson	** (1.3R)	1-3"						NO DIVERSION									
S. Filippone	** (1.8L)	1-4"								12					12	a 42	
Wabater Ranch	** (1.81L)	1-12"								150					150	a 243	
Webster Ranch	** (2.6R)	1-12"	6	6	7	11	12	48	37	100	67	69	23	33	p 419	q 141	
W. G. Fisher	** (4.1L)	1-9"								69					69	a 71	
--TULLY ROAD BRIDGE--	** (4.2)																
J. H. Tone	** (6.0R)	1-10"						3	1	79	3	57	20		p 163	a 140	
A. Girardi	** (6.1L)	1-16"								20					20	k	
Lyons Brothers	** (6.6R)	1-10"					7	42	37	85	13	62	17		p 263	r 169	
Lucky Ranch	** (7.3L)	1-6"						4	2	52	7	10	2		p 77	a 100	
A. G. Steltzner	** (7.3R)	1-10"						5	42	73	11				p 131		a 135
J. W. Hannah, Jr.	** (7.8L)	1-8"						NO DIVERSION									
--STATE HIGHWAY 88 BRIDGE--	** (8.1)																
A. G. Steltzner	** (8.1R)	1-6"						NO DIVERSION									
W. C. Leffler	**(10.3L)	1-4"								8					8	a 10	
W. C. Leffler	**(11.5L)	1-10"								105					105	a 133	
Webster Ranch	21.7R	1-8"								103					103	a 127	
P. C. D. Ranch	21.9R	1-8"								34					34	a 80	
Andrew Cuneo	22.0L	1-12"								92					92	a,a 160	
Nick Genetti	22.1L	1-4"								28					28	a 15	
Joe DeMartini	22.2R	1-8"								43					43	a 16	
Carroll and Anderson	22.3L	1-8"								62					62	a 92	
John Boggiano	22.4R	1-10"								59					59	a 70	
Caeser DeMartini	22.7R	1-12"								59					59	a 142	
Tassano Ranch	22.9L	1-8"								18					18	a 25	
Frank DeBenedetti	23.1L	1-7"								11					11	a 20	
Frad Podesta	24.3L	1-12"								61					61	t	
Fred Podesta	24.4L	1-12"								147					147	a,p,t 225	
--STATE HIGHWAY 8 BRIDGE--	25.2																
--GAGING STATION - CALAVERAS RIVER AT BELLOTA-	25.25																
--CALAVERAS RIVER - MORMON SLOUGH CONTROL GATES--	25.28																
John Armanino and Sons	25.3R	1-10"								88					88	a 117	
D. Creary	25.3L	1-2½"								3	4	1			8	2	
--MORMON SLOUGH--	25.3L																
--GAGING STATION - MORMON SLOUGH AT BELLOTA--	8 (0.05)																
--FARMINGTON - BELLOTA COUNTY ROAD BRIDGE--	8 (0.2)																
J. G. Watkins	8 (0.3R)	1-8"								39					39	a 47	
Angelo Solari	8 (0.5L)	1-8"								51					51	a 80	
Fred Casella	8 (0.9L)	1-6"					10	5		38	2	2			57	a 80	
George G. Watkins	8 (1.2L)	1-6"								25					25	a 38	
John, Louis and Mario Boggiano	8 (1.4R)	1-12"								86					86	a 308	
Sam Motoike	8 (1.5L)	1-8"								29					29	a 36	
Raymond Motoike	8 (1.7L)	1-6"								26					26	a 35	
E. Marugliano	8 (2.0R)	1-7"								26					26	a 42	

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TABLE 209

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER* (continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept	Oct.		General	Rice
C. and P. Sanguinetti	8 (2.0L)	1-8"					20			32					52	e 85	
Estella N. Ryburn (u)	8 (2.5L)	1-10"	1	3	2	1	1			57					65	a 86	
--FINE ROAD BRIDGE--	8 (2.7)																
Julia Pezzi and Sons	8 (3.3L)	1-8"								27					27	a 33	
Caesar DeMartini	8 (3.4R)	1-10"		24			9			31					64	a 48	
John Avanesino	8 (3.5L)	1-4"								27					27	e 30	
Louis J. Lagorio	8 (3.6R)	1-6"								42					42	a,v 165	
Ray Lagorio	8 (3.7R)	1-8"								19					19	a 40	
P. W. Leonardini	8 (4.1L)	1-2" 1-7"								103					103	a 45	
Bertha E. Case	8 (4.4L)	1-8"								25					25	a 60	
Nick Bonomo	8 (5.5L)	1-10"								81					81	a 73	
John A. Lagorio	8 (5.8L)	1-7"						NO DIVERSION									
Motoike Brothers	8 (6.1L)	1-6"								19					19	a 60	
S. Piazza	8 (6.2R)	1-6"								10					10	a,w 35	
John Ratto	8 (6.7R)	1-5"								7					7	a 15	
Dondero Brothers	8 (6.9R)	1-8"								14					14	a 33	
A. and R. Lagorio and A. and J. Caffese	8 (6.9L)	1-8"								43					43	a,x 134	
Prato Brothers	8 (7.2R)	1-6"								24					24	a 39	
A. and R. Lagorio and A. and J. Caffese	8 (7.2L)	1-8"								22					x 22	a 80	
Mapes Brothers	8 (7.5R)	1-6"			5	4				23					32	y 75	
D. Paoletti and Son	8 (7.8R)	1-6"								14					14	a 40	
--COPPEROPOLIS ROAD BRIDGE--	8 (7.8)																
Smythe, Van Dyke Company	8 (8.4L)	1-16"						NO DIVERSION									
J. Queirolo (b)	8 (9.9L)	1-6"								6					6	a 10	
A. Mignacco	8(10.0R)	1-5"								26					26	a 57	
E. M. Welker	8(10.0R)	1-5"						NO DIVERSION									
M. Lavaggi	8(10.3L)	1-8"								27					27	a 50	
Ralph Panella	a 8(10.7R)	aa 1-8"								59					59	a 100	
Ralph Panella	8(11.0L)	1-6"						NO DIVERSION									
Nick Genetti, Jr.	8(11.6R)	1-8"								24					24	a 36	
G. B. Ghiorso	8(11.7R)	1-5"								20					20	a 62	
Frank C. Raffel	8(11.9L)	1-6"						NO DIVERSION									
A. Gogna	8(12.4R)	1-5"								15	7	7	5		34	a,ab 21	
A. Solari and Sons	8(12.5L)	1-14"								15					15	a 23	
Amerigo Cortopassi	8(12.6L)	1-4"								11					11	e 27	
G. Caffese and Sons	8(12.8R)	1-7"								24					24	a 26	
--STOCKTON DIVERTING CANAL--	8(13.0)																
Riddle Estate (ac)	88(13.3R)	1-6"						NO DIVERSION									
Riddle Estate (ac)	88(13.7R)	1-6"						NO DIVERSION									
--STATE HIGHWAY 8 BRIDGE--	88(14.9)																
D. Gambini	88(15.4R)	1-6"								1					1	a 3	
Budiselich and Boggiano Brothers	88(15.7R)	2-12"								43					43	a 69	
--U. S. 50 AND 99 HIGHWAY (FREEWAY) BRIDGE--	88(16.0)																
--GAGING STATION - STOCKTON DIVERTING CANAL AT STOCKTON--	88(16.2)																
Roy Moresco	88(16.2R)	1-5"						PLANT REMOVED									
--U. S. 50 AND 99 HIGHWAY BRIDGE--	88(17.2)																
Albert A. Anderson	25.5L	1-12"								77					77	a 115	
L. P. Grimeley, Inc. (ad)	25.9L	1-16"								107					107	a 203	
Vignola and Pallovicino	26.3R	1-10"					3	6		105					114	a 116	
Field Brothers	26.8L	ae 1-10"								39					39	a 107	
McGurk Ranch	26.8R	1-8"								56					56	a 140	
Saverio Nogere	27.2R	1-12"						NO DIVERSION									
Saverio Nogere	27.5L	1-10"								55					55	a 108	
E. E. Cady	28.3L	1-6"							4	3	1				8	a 40	
Ray Lagorio	28.5L	1-8"								14					14	40	
R. T. and A. V. Lagorio	28.9L	1-10"								18					18	a 50	
Caravano and Maffeo	29.0L	1-6"						33		33	11				77	a 50	
O. R. Shelley	29.2R	1-6"							55	27	24	37	12		155	67	
O. R. Shelley	29.3L	1-10"							18	53					71	a 84	
M. N. Tocum	29.4L	1-8"						NO DIVERSION									

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TABLE 209

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER* (continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct Acre Feet	Acreage Irrigated	
			Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June	July	Aug	Sept	Oct.		General	Rice
Kenneth C. Watkins	30.1R	1-10"						96	6	174					276	a 130	
--BELLOTA RIVER ROAD BRIDGE--	30.4																
L. and D. Hoag	30.6R	1-14"						26	16	8	1				51	a 94	
Lynn Barnett	30.7R	1-7"						1	15	13					29	a 26	
Lois E. Hunt	31.1R	1-10"						18	45	74	7				144	a 67	
Leslie M. Gregory	31.3R	1-8"	1	1	1			35	41	107	46	12	1	1	246	a,af 121	
Emmet Gregory	31.6R	1-6"						NO DIVERSION									
Eva Hunt	32.5R	ag 1-6"	2					9	15	13	13	13	1	2	68	30	
Eva Hunt	32.6L	1-8"						22	10	49	28	9			118	55	
--GAGING STATION - CALAVERAS RIVER AT JENNY LIND--	36.9																
CALAVERAS RIVER																	
Total			13	34	15	16	62	372	353	5912	302	327	96	59	7561	4254	133
Average cubic feet per second			0	1	0	0	1	6	6	99	5	5	2	1	10		
Monthly use in per cent of annual			0.2	0.4	0.2	0.2	0.8	4.9	4.7	78.2	4.0	4.3	1.3	0.8			

* Diversions shown in this table below the Stockton Gaging Station are considered as Delta Uplands Diversions. Right bank diversions below Mile 2.0 and left bank diversions below Mile 0.7 are not included since they serve areas that are considered to be within the Delta Lowlands. Tidal effect ceases at about Mile 5.0.
** North Slough - North Slough diverts from Calaveras River at Mile 21.6R. Distance from Calaveras River and bank are shown in parentheses.
8 Mormon Slough - Mormon Slough diverts from Calaveras River at Mile 25.3L and rejoins the river through Stockton Diverting Canal. Distance from Calaveras River and bank are shown in parentheses.
88 Stockton Diverting Canal diverts from Mormon Slough at Mile 8(13.0) and rejoins the Calaveras River at Mile 5.4L. Distance from Calaveras River and bank are shown in parentheses.
a This acreage also received an undetermined amount of well water.
b New installation in 1959.
c Includes 7 acres which also received an undetermined amount of water from Woodbridge Irrigation District.
d Combined acreage for Miles 11.82L and 11.85L.
e Combined acreage for Miles 11.85R and 11.95R.
f Combined acreage for Miles 11.95L, 12.0L and 12.05L.
g Combined acreage for Miles 12.1L and 12.15L.
h Combined acreage for Miles 12.35L and 12.6L.
i Includes 10 acres of V. Freggiaro lands.
j Combined acreage for Miles 12.43R and 12.45R.
k Combined acreage for Miles 15.4R and **(6.1L).
m Installed prior to 1959. Not previously listed.
n Formerly listed as E. F. Messick.
p Includes an undetermined amount of controlled drainage water.
q Includes 92 acres which also received an undetermined amount of well water.
r Includes 146 acres which also received an undetermined amount of well water.
s Includes 10 acres of Millar lands and 10 acres of Heath lands.
t Combined acreage for Miles 24.3L and 24.4L.
u Formerly listed as J. B. Ryburn.
v Includes 75 acres of F. L. Leonardini lands.
w Includes 15 acres of S. M. Canepa lands.
x 6 acres listed for Mile 8(6.9L) also received an undetermined amount of water from Mile 8(7.2L).
y Includes 55 acres which also received an undetermined amount of well water.
z Plant moved from Mile 8(10.8R) in 1959.
aa Replaces a 7" unit.
ab Includes 4 acres of C. Logan lands and 4 acres of P. Cogna lands.
ac Formerly listed as Homer D. Riddle.
ad Formerly listed as L. F. Grimsley.
ae Replaces a 6" unit.
af Includes 65 acres of Roy Gregory lands and 23 acres of Emmet Gregory lands.
ag Replaces a 5" unit.

TABLE 210

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Old River, Tom Paine Slough and French Camp Slough)
November 1958 thru October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan	Feb.	Mar	Apr.	May	June	July	Aug	Sept.	Oct		General	Rice
OLD RIVER	*																
--CONTRA COSTA CANAL--	30.5L																
John A. Bettencourt	a 30.5L	1-18"	1					198	78	191	295	235	107		1105	b 259	
Augustus Sarija	c 36.5L	2-6"	8				24	30	44	41	40	51	24	28	290	74	
East Contra Costa Irrigation District	c 36.5L	1-18" 3-24" 2-30"		672			1260	6930	5870	7280	7890	6880	1910	812	39500	d 16740	
--STATE HIGHWAY 4 BRIDGE--	38.8																
Byron - Bethany Irrigation District	e 40.9L	1-20" 1-24" 2-30"					3000	7070	5710	6970	7640	6590	3100	1950	42030	f 9937	
--GAGING STATION - OLD RIVER AT CLIFTON COURT FERRY--	44.0L																
--DELTA-MENDOTA CANAL--	44.6L																
M. R. Furtado	g 44.6L	1-14"	42				163	72	178	281	288	180	130	42	1376	315	
J. R. Colburn and Fred H. Draper	44.7L	1-8"						NO DIVERSION									
William M. Ralph	45.3L	1-12"	2				129	145	175	236	245	176	85	43	1236	310	
C. O. Bankhead and Son	h 47.2L	1-16"					117	172	245	311	378	254	93	161	1731	i 406	
Lucio J. Costa	h 47.2	1-14"					3	37	183	80	206	256	111		876	i 198	
Johnnie L. Costa	g 47.65L	1-8"					25	54	63	69	69	70	21	18	389	80	
West Side Irrigation District	g 47.65L	1-10" 7-15" 1-18"					4240	6260	5310	6360	6870	6150	2750	1660	39600	j 9692	
Vance Brown	48.4L	1-12"					41	64	58	79	130	73	54	38	537	155	
Salles Brothers	49.5L	1-4"						2	2	1	2	1	1		9	6	
Naglee Burke Irrigation District	50.4L	1-16" 1-18"	28				730	1700	1560	2020	2030	1900	734	474	11180	k 2475	
Fremont Irrigation Association	50.9L	1-16"		349		83	173	145	177	260	326	285	72	13	1883	693	

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TABLE 210

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Old River, Tom Paine Slough and French Camp Slough) (continued)
November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct Acre-Feet	Acreage Irrigated	
			Nov	Dec	Jan	Feb	Mar	Apr.	May	June	July	Aug	Sept	Oct.		General	Rice
Joe M. Freitas	51.0L	1-8"						21		5	15	7			48	36	
Attilio Casserini	51.2L	1-10"						NO DIVERSION									
E. Platti, J. Coulart and T. Silveira	52.4L	1-10"					35	11	10	9	18	43	5	3	134	113	
--TRACY ROAD BRIDGE--	52.8																
--GAGING STATION - OLD RIVER NEAR TRACY ROAD BRIDGE--	52.8R																
A. L. Galli	53.0L	1-8"						68		48					116	57	
--MOUTH OF TOM PAINE SLOUGH--	54.3L																
OLD RIVER Total			81	1102	0	83	9940	22980	19660	24240	26440	23150	9197	5242	142000	41550	0
Average cubic feet per second			1	18	0	1	162	386	320	407	430	376	155	85	196		
TOM PAINE SLOUGH																	
Independent Mutual Water Corporation and Company	[illegible]	2-18"		856	155		173	354	227	448	566	550	88	24	m 3441	988	
Independent Mutual Water Corporation and Company	1.5	1-18"		37	195		10	36	52	108	93	196	20		747	m 198	
--HOLLY SUGAR CORPORATION DREDGER CUT--	B 2.1S																
George J. Lake	B (0.9W)	1-10"		35							115				150	168	
Holly Sugar Corporation	B (1.2W)	1-14"			135		277	321	200	339	254				1526	n 649	
Holly Sugar Corporation	B (1.35W)	1-12"						NONAGRICULTURAL USE									
--RECORDING GAGE--	2.25																
Pescadero Reclamation District 2058 (#1)	2.9S	1-12"		82			158	119	120	169	241	197	87	35	1208	245	
Frank Bastian	4.3S	1-5"						17	6	12	7	13	5		60	12	
Pescadero Reclamation District 2058 (#3)	6.3S	1-12" 1-20" 1-24"	66				1520	1940	2150	2390	2830	2270	1330	551	15050	p 2397	
Pescadero Reclamation District 2058 (#5)	8.3S	1-12"					139	156	133	202	240	150	105	74	1199	273	
Pescadero Reclamation District 2058 (#6)	9.0N	1-16" 1-18"					71	238	176	145	296	202	61	82	1271	212	
TOM PAINE SLOUGH Total			66	1010	485	0	2348	3181	3064	3813	4642	3578	1696	766	24650	5142	0
Average cubic feet per second			1	16	8	0	38	53	50	64	75	58	28	12	34		
FRENCH CAMP SLOUGH ***																	
Carolyn Weston	1.05L	1-12"						6		130	72	71			279	110	
Carolyn Weston	1.4L	1-7"		114	12		1		1		30	15	4		177	q 68	
Carolyn Weston	r 1.45L	1-6"		8	5				11	15	53	26	11	6	q 135	49	
--FRENCH CAMP TURNPIKE--	2.0																
Frank West	2.2L	1-10"						168	191	218	253	237	114	156	1337	228	
Manuel E. Granados	2.3R	1-3"						NO DIVERSION									
Frank West	3.0L	1-10"				13		74	57	80	80	57	22	51	434	66	
Tom Gomes	3.3L	1-5"						NO DIVERSION									
Tom Gomes	3.4L	1-4"						NO DIVERSION									
--U.S. 50 HIGHWAY--	3.45																
--SOUTHERN PACIFIC RAILROAD BRIDGE--	3.6																
Milton G. Boege	3.8L	1-8"						NO DIVERSION									
Robert L. Bordenave	3.8R	1-12"						42	33	47	45	7			174	s 48	

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TABLE 210

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Old River, Tom Paine Slough and French Camp Slough) (continued)
November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.	Oct.		General	Rice
--WESTERN PACIFIC RAILROAD--	4.1																
Clark Anderson	4.2R	1-14"						NO DIVERSION									
--GAGING STATION - FRENCH CAMP SLOUGH NEAR FRENCH CAMP--	5.4																
FRENCH CAMP SLOUGH Total			0	122	17	13	1	290	293	490	533	413	151	213	2536	569	0
Average cubic feet per second			0	2	0	0	0	5	5	8	9	7	3	3	4		

* Mileage along Old River from mouth of San Joaquin River 4½ miles below Antioch.
** Mileage along Tom Paine Slough from its mouth at Mile 54.3L on Old River.
*** Mile and bank above mouth.
8 Holly Sugar Corporation Dredger Cut joins Tom Paine Slough at Mile 2.1S. Distance along Dredger Cut and bank are shown in parentheses.
a Rock Slough joins Old River at Mile 30.5L. Pumping plant is located on channel which joins Rock Slough.
b Includes 27 acres of G. P. Mercer lands.
c Indian Slough joins Old River at Mile 36.5L. Pumping plant is located on Intake Canal which joins Indian Slough.
d Includes double cropped acreage. This acreage also received 3522 acre-feet of well water.
e Italian Slough joins Old River at Mile 40.9L. Pumping plant is located on Intake Canal which joins Italian Slough.
f Includes an undetermined amount of acreage which also received an undetermined amount of controlled drainage water. Of this acreage, 847 were double cropped.
g Plant is located on Intake Canal which joins the Old River at this mile.
h Plant is located on Mountain House Creek which joins the Old River at this mile.
i This acreage also received an undetermined amount of water from Mountain House Creek.
j This acreage also received 3418 acre-feet of well water. Includes 125 acres of outside contract lands. Of this acreage, 675 were double cropped. This acreage also received 2848 acre-feet of Delta-Mendota Canal water as follows: March 410, April 891, June 317, July 919 and August 311.
k Includes 20 acres irrigated outside the district.
m 100 acres listed for Mile 1.5S also received an undetermined amount of water from Mile 0.7S.
n This acreage also received an undetermined amount of Holly Sugar Corporation factory waste water.
p Of this acreage, 27 were double cropped.
q 8 acres listed for Mile 1.4L also received an undetermined amount of water from Mile 1.45L.
r Plant moved from Mile 1.5L in 1959.
s Of this acreage, 8 were double cropped.

TABLE 211

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(San Joaquin River - Stockton to Vernalis)
November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept	Oct.		General	Rice
--STATE HIGHWAY 4 BRIDGE--	45.3																
--FRENCH CAMP SLOUGH--	46.1R																
Carolyn Weston	46.1R	1-4"						PLANT REMOVED									
Carolyn Weston	46.2R	1-6"		40					5	1	27	7	5		85	45	
Carolyn Weston	46.3R	1-12"		32			1	88	47	58	76	101	29	18	a 450	154	
Mrs. John Lillie	46.65R	1-10"										42			42	80	
Frank West	46.85R	1-10"						105		203	174	107	8	89	686	160	
F. Asano	47.2R	1-6"	6	2			5	16	8	9	25	11	8	4	94	37	
Wolfinger Brothers	47.3R	1-10"						20	18	16	31	18	12		115	50	
C. C. Long	47.55R	1-10"					52	39	52	136	153	60	42	2	536	168	
Waldo C. Haack	48.0R	1-14"		137	174			121	48	53	55	38	4		630	b 495	
Waldo C. Haack (c)	48.1R	1-14"							155	255	221	217	80		928	b	
Chow L. Young	48.3R	1-6"	2				2	5	7	11	13	13	5	4	62	d 25	
Joe Calcagno	48.5R	1-8"						1	37	40	17	34	5	27	161	90	
C. J. Pregno	48.55R	1-6"						12	22	15	12	9	9		79	30	
John Calcagno	48.66R	1-12"					53	74	119	122	114	103	35	40	660	e 160	
Alfred Rodgers	49.0R	1-12"	14				32	28	26	58	48	44	32	27	309	70	
Ray Muller and F. Terry	49.3R	1-14"					69	144	163	248	319	226	56	7	1232	f 358	
Ray Muller and F. Terry	49.5R	1-12"								4					4	f	
A. A. Rodgers	50.1R	1-10"	4	3			23	34	31	54	44	35	27	8	263	74	
--BRANDT BRIDGE--	50.2																
A. Hirata	50.4R	1-10"					35	8	7	17	14	11	3	13	108	26	
K. R. and F. Watanabe	50.6R	1-6"						62	29	31	50	39	19	14	244	55	
D. Toscano	50.8R	1-6"					1	37	22	21	35	32	8	4	160	38	
Pastorino Brothers	50.9R	1-12"	37						71	89	155	107	31	48	538	138	
Felipe Esteban	51.2R	1-12"					7	28	11	12	15	20	11		104	90	
W. B. Herbert and Y. B. Lawrence	51.6R	1-10"		1			27	56	26	35	75	52	7		279	90	
A. McNamara, K. McNamara and Betty French	52.4R	1-5"							8		5	3			16	16	
E. P. Valla	52.65R	1-10"					58								58	80	
J. Widmer	53.2R	1-16"					122	148	188	260	352	282	117	40	1509	394	
J. Widmer	53.45R	1-12"					6	13	26	26	35	25	11		142	g 47	

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TABLE 211

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(San Joaquin River - Stockton to Vernalis) (continued)
November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept	Oct.		General	Rice
Julio Lorenzo	53.5R	1-8"	1					13	16	17	15	15	4	2	83	48	
Mack Sung	53.55R	1-2"						DOMESTIC USE									
John Caparra	53.6R	1-4"	5	1			2	7	6	2	8	6	1	1	39	15	
J. Romo and B. Andeya	53.7R	1-14"	52	19			20	110	123	88	148	151	62	98	h 871	235	
I. N. Robinson, Jr.	53.8R	1-14"	3	224	137		63	131	170	196	248	221	80	1	1474	h 318	
H. N. Hansen, H. C. Hansen and William Giger	54.9R	1-10"	48					64	128	117	146	136	115	94	848	157	
--JUNCTION WITH MIDDLE RIVER--	56.2L																
Oakwood Stock Farm	57.0R	1-14"	20	4			44	380	273	358	493	346	79	81	2078	516	
Ernest Wennhold and Roy Tholke (i)	57.15R	1-7"						1	20	17	34	13			85	42	
A. J. Thomsen	57.39R	1-5"					23	26	6	20	16	21			112	15	
Andrew B. Calori	57.45R	1-6"						18		11	12	7			48	30	
G. Gardella (j)	57.5R	1-4"	6	7			9	1	2	8	5	1			39	16	
A. Queirolo	58.6R	1-4"					5	2	4	8	9	8	1		37	15	
Tony Mauro	58.7R	1-6"						NO DIVERSION									
--SOUTHERN PACIFIC RAILROAD BRIDGE--	58.8																
--GAGING STATION - SAN JOAQUIN RIVER AT MOSSDALE BRIDGE--	58.9																
--U.S. 50 HIGHWAY BRIDGE--	58.9																
Libby, Owens, Ford (k)	59.25R	m 1-4" 1-6"						1	77	56	44	55	5		238	46	
M. H. Madruga	59.3R	1-15"		3				245	6	70	266	216	36		842	244	
Eugene J. Rossi, et al.	59.5L	1-14"					54	117		112	199	66	9		557	165	
--WESTERN PACIFIC RAILROAD BRIDGE--	59.5																
M. N. Madruga	n 60.1R	1-6"						10	27		21				58	40	
G. M. Baird	n 60.1R	1-16"	54				138	141	121	291	298	190	50	106	1389	197	
James and Leslie Little	60.4L	1-3"							3		1	1			5	6	
A. P. Windeler	60.5L	p 2-16"					142	75	75	179	278	128	9		886	193	
E. Picchi and Son	60.8R	1-8"			26			42	32	40	27	25			222	60	
E. Picchi and Son	61.4R	1-12"			121			112	135		166	91			a 625	215	
Jack Williams	62.0R	1-8"						NO DIVERSION									
Bernice Von Sosten	62.0L	1-12"		22			155	80	134	60	178	153	47		829	q 265	
--PARADISE DAM (HEAD OF PARADISE CUT)--	62.2L																
Paradise Mutual Water Company	r 62.2L	1-14" 1-20"		279	119		122	318	213	334	390	376	106	8	2265	858	
Dethlefsen Brothers	63.0L	2-20"	581	241				448	116	388	554	562	1		a 2891	1101	
State of California	63.3L	s 2-14"	18	30	12		231	289	333	321	337	299	148	165	2183	459	
H. N. Grimes	63.6R	1-12"						111	106	52	176	47		14	506	222	
Dethlefsen Brothers	64.6L	1-10"						NO DIVERSION									
Alexander Hildebrand	66.0R	1-6"							8	3	1				12	10	
Johnnie J. Silva	66.7L	1-8"					27	139	121	145	161	111	4	42	750	157	
K-C Ranch (c)	66.8R	1-16"								32	95	40			167	55	
George A. Plumber	67.0R	1-6"						NO DIVERSION									
Banta Carbona Irrigation District	t 67.5L	2-10" 2-16" 2-20" 3-24" 1-36"	157				5950	10600	8500	9350	10600	8830	3240	1880	59110	u 17140	
William Piccinini	68.2R	1-10"						5	16	86	84	28			219	81	
Glenn M. West Estate (v)	70.0L	1-10"					50	20	138	83	119	89	14		513	221	
San Joaquin River Water Users Company	71.0R	2-16"	15	15			578	769	518	935	1010	900	424	96	5260	w 1365	
E. Filippini	71.0R	1-6"						13	9	8	6	6	1		43	9	
Tony M. Cardoza	71.75R	1-4"						NO DIVERSION									
Tony M. Cardoza	72.1R	1-10"						10	14	42	49	24			139	50	

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TABLE 211

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(San Joaquin River - Stockton to Vernalis) (continued)
November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov-Oct Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept	Oct.		General	Rice
H. J. Mortenson and Barker	73.2R	1-8" 1-12"					136	187	70	197	229	284	105		1208	370	
San Joaquin River Club	74.7L	1-6"	1	105	55	29	70	88	14	55	65	23		40	545	x 50	
E. A. Tassi	75.6R	1-16"	33	15			25	119	78	127	125	110	94	102	828	y 347	
SAN JOAQUIN RIVER (Stockton to Vernalis) Total Average cubic feet per second			1057 18	1180 19	674 11	29 1	8337 136	15730 264	12740 207	15580 262	18680 304	15220 248	5199 87	3075 50	97490 135	28300	

* Mileage along San Joaquin River from its mouth 4½ miles below Antioch.
a Includes an undetermined amount of water returned to river by spill.
b Combined acreage for Miles 48.0R and 48.1R. This acreage also received an undetermined amount of water from controlled drainage.
c New installation in 1959.
d This acreage was double cropped.
e Includes 30 acres which also received an undetermined amount of well water. Includes 30 acres of G. Calcagno lands.
f Combined acreage for Miles 49.3R and 49.5R.
g Includes 29 acres of Nishimura lands.
h 125 acres listed for Mile 53.8R also received an undetermined amount of water from Mile 53.7R.
i Formerly listed as James Tobin.
j Formerly listed as C. Gardella and Company.
k Formerly listed as Mertle Abersold.
m The 4" unit was a temporary installation during 1959.
n Plant is located on Walthall Slough which joins the San Joaquin River at this mile.
p One 16" unit was a temporary installation during 1959.
q Of this acreage, 100 were double cropped.
r Plant is located on Paradise Cut which joins the San Joaquin River at this mile.
s One 14" unit was a temporary installation during 1959.
t Plant is located on intake canal which joins the San Joaquin River at this mile.
u Includes 811 acres of Banta Irrigated Farms, 579 acres of Kasson District, and 1127 acres of outside contracts. Of this acreage, 1196 were double cropped. Portions of this acreage also received an undetermined amount of well water. This acreage also received 2790 acre-feet of Delta-Mendota Canal water as follows: March 29, April 1270, July 886 and August 605.
v Formerly listed as Glenn M. West.
w Includes 261 acres which also received an undetermined amount of controlled drainage water.
x Recreational lakes. Also received an undetermined amount of controlled drainage water.
y Includes 227 acres which also received an undetermined amount of controlled drainage water.

TABLE 212

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Calaveras River, Mokelumne River, Cosumnes River, Sacramento River below Sacramento, Yolo Bypass - West Cut - and Putah Creek)
November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet	Acreage Irrigated	
			Nov	Dec	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept	Oct.		General	Rice
CALAVERAS RIVER (a) Total Average cubic feet per second			1 0	0 0	0 0	0 0	0 0	19 0	9 0	94 2	54 1	48 1	15 0	23 0	263 0	97	0
MOKELUMNE RIVER (b) Total Average cubic feet per second			123 2	3 0	0 0	0 0	10 0	805 14	1658 27	2110 35	2499 41	2026 33	965 16	479 8	10680 15	2377	154
COSUMNES RIVER (c) Total Average cubic feet per second			0 0	0 0	20 0	0 0	31 1	667 11	877 14	738 12	832 14	820 13	214 4	12 0	4211 6	542	118
SACRAMENTO RIVER BELOW SACRAMENTO *																	
--RIO VISTA BRIDGE--	12.9																
John Lira	13.0R	1-6"					2	13	5	24	18	14	12		88	25	
C. A. Beach	45.2L	1-12"						18	85	68	70	28			269	130	
W. and S. Correa	45.5L	1-10"						33	50	101	104	17			305	195	
Hack and Forsythe	45.75L	1-16"						NO DIVERSION									
A. J. Sweeney	45.95L	1-10"							64	57	67	11			199	d 114	
--FREEPORT BRIDGE--	46.0																
Freeport Development Company	46.25L	1-8"			33	38		92	37	159	206	46			611	e 290	
L. J. Dee	46.8L	1-10"							33	79	64	11			187	116	
L. C. Klotz	47.3L	1-8"	8	10			11	26	34	26	35	34	20	25	229	37	
E. A. Franklin	47.5L	1-8"						3	26	7	23	3			62	50	
George Coleman	47.7L	1-6"						41		33	36	39	3		152	e 59	
M. A. Richardson	53.7L	1-6"								6	13				19	24	
--M STREET BRIDGE--	59.0																
SACRAMENTO RIVER BELOW SACRAMENTO Total Average cubic feet per second			8 0	10 0	33 1	38 1	13 0	226 4	334 5	560 9	636 10	203 3	35 1	25 0	2121 3	1040	0
YOLO BYPASS (WEST CUT)	**																
H. L. Sorensen	4.2R (1.9)	1-14"						76	134	123	161	84	134	86	798	160	
Mounds Farms	4.2R (2.0)	2-12"	143	100	14			18	85	143	113	100	270	319	1305	f 400	
H. L. Sorensen	4.2R (2.0)	1-16"	33	27					58	67	94	151	37	177	644	g 320	
Yolo Flyway Farms	5.7R (0.9)	1-18"	403	391	177				112			142	294	334	1853	h 300	
R. S. W. Ranch	5.7R (1.5)	1-16"	49	94	11		121	356	361	362	361	235	250	321	2521	i 400	

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TABLE 212

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Calaveras River, Mokelumne River, Cosumnes River, Sacramento River below Sacramento, Yolo Bypass - West Cut - and Putah Creek) (continued)
November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct		General	Rice
Fridolf Anderson	6.75R (0.6)	1-16"										113	177	280	570	h 300	
James Iriart	7.85R	1-16"	13	20	1				3	98	162	129	36	53	515	j 330	
Swanston Land Company	7.87R (1.7)	1-16"								517	438	208			1163	650	
Vaughn and Burlingham	7.87R (2.1)	1-14"							40						40	310	
Vaughn and Burlingham	7.87R (2.5)	1-14"							79	72	122	134			407	311	
Vaughn and Burlingham	7.87R (2.7)	1-14" 1-16"	87	41	13		11	209	363	388	475	499	201	235	2472	k 596	
Swanston Land Company	9.1R	1-16"	139	34	8				141	290	359	145	32	34	1182	j 690	
T. S. Glide	10.9R (0.4)	1-20"	191	157	18			2	196	270	397	238	188	519	2176	m,n 1566	
T. S. Glide	11.0R	1-20"								72	132				204	100	
T. S. Glide	12.4R	1-14"								135	32				167	260	
T. S. Glide	13.15R	1-16"								97	278				375	300	
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	13.2																
T. S. Glide	13.5R	p 1-10" 1-16"								264	24	12	10		310	130	
T. S. Glide	13.9R	1-16"						NO DIVERSION									
T. S. Glide	14.8R	1-16"						NO DIVERSION									
T. S. Glide	q 17.1R (0.8)	1-12"							159	116	121				396	257	
T. S. Glide	17.1R (1.8)	3-20" r 1-30"	208	641	73		254	1840	2180	3320	4240	3120	1070	223	s 17170	t 5578	
T. S. Glide	18.6R	1-36"						81	1080	1160	1190	1160	158		4829	198	578
--U. S. 40 AND 99W CAUSEWAY--	20.1																
YOLO BYPASS (WEST CUT)																	
Total			1266	1505	315	0	386	2582	4991	7494	8699	6420	2857	2581	39100	13160	578
Average cubic feet per second			21	24	5	0	6	43	81	126	141	104	48	42	54		
PUTAH CREEK (u)																	
Total			0	0	0	0	0	24	29	44	0	0	0	0	97	238	0
Average cubic feet per second			0	0	0	0	0	0	0	1	0	0	0	0	0		

* Mileage above Chain Island.
** Mileage above Prospect Island.
a Below gaging station - Calaveras River near Stockton, Mile 7.9. Individual diversions are shown in Table No. 209
b Below gaging station - Mokelumne River at Woodbridge, Mile 19.2. Individual diversions are shown in Table No. 208
c Below gaging station - Cosumnes River at McConnell, Mile 10.7. Individual diversions are shown in Table No. 207
d Includes 55 acres which also received an undetermined amount of well water.
e This acreage also received an undetermined amount of well water.
f Includes 300 acres of duck club lands.
g Includes 75 acres of duck club lands.
h All duck club lands.
i Of this acreage, 130 were reused for duck club lands.
j Includes 90 acres of duck club lands.
k Includes 35 acres of duck club lands.
m This acreage also received an undetermined amount of drain water.
n Includes 190 acres of duck lands.
p These two units replace a 6" unit.
q Temporary installation in 1959.
r The 30" unit was installed in 1959.
s The acreage listed for Mile 0.8L, Putah Creek, also received an undetermined amount of water from Mile 17.1R (1.8).
t Includes 160 acres of duck lands.
u Below gaging station - South Fork Putah Creek near Davis, Mile 7.2. Individual diversions are shown in Table No. 206

TABLE 213

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
Miscellaneous Delta Uplands
November 1958 through October 1959

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June	July	Aug.	Sept.	Oct.		General	Rice
FIVE MILE SLOUGH																	
Sam Hernandes	2/6-17D	1-3"							5	4	8	1	1		19	8	
Guodi Segarina	2/6-17C	1-12"						NO DIVERSION									
Lawrence Jimenez	2/6-8N	1-8"							10	9	10	7	6	5	47	14	
DISAPPOINTMENT SLOUGH																	
H. Moffat and Elbon Land Company (a)	2/6-6P	1-8"					157	303	394	458	416	506			2234	400	
H. Moffat and Elbon Land Company (a)	2/6-6J	1-14"					204	436	465	465	489	399	301		2759	375	
TELEPHONE CUT																	
E. V. Lang	3/5-35A	Gravity	61	20	10		52	66	73	95	107	90	66	122	b 762	237	
E. V. Lang	3/5-36D	Gravity						NO DIVERSION									
E. V. Lang	3/5-36C	Gravity						NO DIVERSION									
E. V. Lang	3/5-26R	Gravity	21	7	4								13	42	87	70	
E. V. Lang	3/5-25R	1-16"						139	332	400	377	302	128		1678	289	
WHITE SLOUGH																	
Bert Van Ruiten	3/5-25C	1-16"	43				27	102	166	178	309	193	94	66	1178	294	
Bert Van Ruiten	3/5-26C	1-12"					10	57	40	44	46	42	42	21	302	40	

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TABLE 213

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
Miscellaneous Delta Uplands (continued)
November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan	Feb	Mar.	Apr	May	June	July	Aug.	Sept.	Oct.		General	Rice
HOG SLOUGH																	
Robinson Farms	4/5-28B	Gravity								38		23			61	c	
Robinson Farms	4/5-28B	Gravity	54	58	22			47	95	7	62	20	27	97	489	c,d 182	
Thompson-Folger Company	4/5-28C	1-12" Gravity	210	158	12		88	207	444	76	130	201	497	361	2384	546	
BEAVER SLOUGH																	
C. B. Orvis	4/5-15C	1-15"	25				77	166	208	291	391	278	153	120	1709	190	
C. B. Orvis	4/5-15D	1-18"	43				97	215	287	352	359	286	180	140	1959	470	
Canal Ranch	4/5-16B	1-8" Gravity	37				92	139	160	217	249	257	155	146	1452	184	
Canal Ranch	4/5-16D	1-8"	35				51	96	102	120	134	84	81		703	80	
BURTON SLOUGH																	
Egbert O. Morse	5/5-28D	1-10"								11	13	4			28	20	
Barnes Ranch	5/5-29D	e 1-5" e 1-6"									66	9			75	96	
Egbert O. Morse	5/5-20K	1-8"								33	95	24			152	80	
Egbert O. Morse	5/5-16N	1-16"						86	125	161	215	166	47		800	353	
Egbert O. Morse	5/5-15M	1-10" 1-12" 1-14"						197	600	950	878	886	460		3971		489
EAST DREDGER CUT-SHOOGRASS SLOUGH																	
H. E. Graf	f 6/5-31N	g 1-12"							163	24	113	166	107		573	230	
Alfred Kuhn	6/4-36Q	1-16"							188	273	317	173	3		954	348	
DUCK SLOUGH EXTENSION																	
Isabella Wineman	6/2-26B	1-14"	15	30			69	106	151	182	156	156	81	80	1026	222	
Isabella Wineman	6/2-26D	1-12"	11	31			47	83	131	147	142	130	68	72	862	149	
Isabella Wineman	6/2-26J	1-14"	45	12			35	341	313	229	329	300	198	86	1888	338	
HASS SLOUGH																	
G. Peterson	6/2-33H	1-12"	36	10								51	35	54	186	h 40	
Reclamation District 2068	6/2-34G	1-24" 2-30" 1-36"	2330	1620			1420	9020	10200	10500	12300	11700	6700	6720	72510	i 12480	
Francis F. Gunning	6/2-34P	1-16"	174	73	30		52	248	304	464	347	432	245	301	2670	j 340	
CACHE SLOUGH																	
Carpenter Ranch	4/3-20B	1-12"					2	15	78	79	139	96	59	20	488	200	
Harold D. Miller	5/2-4B	1-14"	134	50				144	171	183	261	193	147	143	1426	260	
Jack Parker	5/2-4K	1-12"	2	26				47	95	98	82	92	46	87	575	120	
Ervin E. Vassar	5/2-4K	1-20"	189	91				377	175	364	435	477	62	165	2335	k 503	
CALHOUN CUT																	
Hamilton and Nyman	5/1-25D	1-10"						NO DIVERSION									
Matilda Hall	5/2-19J	1-10"	8	30				41	60	96	71	54	46	55	461	110	
UNSEGREGATED																	
Red House Ranching Company	3/5-23L	1-10"						67	94	104	124	109	76	63	637	120	
R. C. Coldani	3/5-14L	1-14"	187	194				85	102	146	199	185	112	89	1299	112	
Cotta and Sousa	4/5-34Q	1-16"					46	198	201	251	320	270	198	138	1622	m 440	
H. L. Sorensen	6/3-18F	1-14"													n		
H. L. Sorensen	6/3-20J	1-16"	60	52	6				103		247	84	15	137	704	p 280	
H. L. Sorensen	6/3-19E	1-14"	35	64	4				237	126	6		371	302	1145	h,q 508	
H. L. Sorensen	6/3-30D	1-14"	116	104	10				176	84			112	346	948	q	
H. L. Sorensen	6/3-30L	1-16"	8	4									3	2	17	h 30	
Reclamation District 2068	6/2-25P	1-12"													n		
Sub-Irrigated lands (r)							83	106	117	152	171	144	106	91	970	379	
MISCELLANEOUS DELTA UPLANDS																	
Total			3879	2634	98	0	2609	13130	16560	17410	20110	18590	11040	10070	116100	21210	489
Average cubic feet per second			65	43	2	0	42	221	269	293	327	302	186	164	160		
DELTA UPLANDS																	
Total			6481	7566	1642	163	23680	59630	60220	72570	83120	70470	31370	22490	439200	114200	1339
Average cubic feet per second			109	123	27	3	386	1002	982	1219	1355	1149	527	367	607		
Monthly use in per cent of annual			1.5	1.7	0.4	0.0	5.4	13.6	13.7	16.5	18.9	16.0	7.1	5.1			

* Figures represent North Townships, East Ranges, and Sections. Letters represent the ¼¼ portion of the section.
a Formerly listed as H. Moffat Company and Eldon Land Company.
b Includes 549 acre-feet of water received by sub-irrigation.
c Combined acreage for two plants at 4/5-28B.
d This acreage also received an undetermined amount of water from the Woodbridge Irrigation District and was reused for duck club lands.
e The 5" unit and the 6" unit replace a 4" unit.
f Plant moved from 6/5-31R.
g One 12" unit was removed in 1959.
h All duck club lands.
i Includes 1562 acres outside the district and 220 acres of duck clubs.
j Of this acreage, 30 were reused for duck clubs.
k Of this acreage, 38 were reused for duck clubs.
m This acreage also received an undetermined amount of water from the Woodbridge Irrigation District.
n Diversion for 1959 was all controlled drainage water.
p Includes 80 acres of duck club lands.
q Combined acreage for 6/3-19E and 6/3-30D.
r Estimated consumptive use of lands in Delta Uplands considered as sub-irrigated from tidal channels during 1959 without a specific point of diversion.

TABLE 214

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Vernalis to Fremont Ford Bridge)

November 1958 through October 1959

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct		General	Rice
--DURNAM FERRY BRIDGE--	76.7																
--GAGING STATION - SAN JOAQUIN RIVER NEAR VERNALIS--	76.7																
A. J. Chieholm Estate (a)	78.9R	1-10"					82	96	85	153	165	272	90		943	b 366	
Cruze, Goneslvee and Moresco	79.4R	1-20"		3			78	74	66	175	25	112	31	24	588	c 182	
--STANISLAUS RIVER--	79.7R																
W. C. Blewett Estate	80.7L	1-12"				19	337	138	167	253	295	102	44		1355	200	
W.C. Blewett Estate	81.8L	2-12" 1-14"	123				79	869	400	804	1250	832	224	159	4740	d 832	
--GAGING STATION - SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE--	81.85																
--MAZE ROAD BRIDGE--	81.85																
Blewett Mutual Water Company	81.95L	1-10" 2-12"		2			111	905	529	625	855	821	257	108	4213	1066	
El Solyo Water Company	82.0L	1-10" 3-18"					1230	2820	2100	2000	2910	2050	623	169	e 13900	f 3493	
--GAGING STATION - SAN JOAQUIN RIVER AT HETCH HETCHY AQUEDUCT CROSSING--	82.65																
El Solyo Ranch	82.9L	1-16"						30	73		146	35			284	163	
El Solyo Ranch	83.5L	1-12"					2	66	86	75	80	73	50	16	448	143	
El Solyo Ranch	83.7L	1-12"							60	9	77	66			212	80	
Faith Ranch	84.4R	1-20"					185	496	431	652	640	598	456	286	3744	h 857	
--TUOLUMNE RIVER--	91.0R																
--GAGING STATION - SAN JOAQUIN RIVER AT WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8L																
--WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8																
West Stanislaus Irrigation District	91.8L	1-12" 1-24" 6-26"	269	569	192	215	5240	12300	10500	9480	11600	8800	2180	875	62220	i 22800	
Fred Lara # 1	** (0.6S)	1-14"						125	49	173	255	76	194	60	932	183	
Frank Sarmento # 1	** (0.7N)	2-16"					199	590	428	575	630	529	161	122	3234	j 1271	
Frank Sarmento #2	** (1.1N)	1-14" 1-16"					440	524	573	808	773	829	201	303	4451	j	
Fred Lara # 2	** (2.2S)	1-16"	3				18	25	51	72	41	45	35	18	308	57	
Frank Sarmento # 3	** (2.3N)	2-16"					203	230	333	473	353	345	192	152	2281	371	
J. V. Steenstrup Estate	93.1R	2-12"						114	219	80	264	244	80		1001	k 340	
Walter W. Crawford	93.2L	1-6"						NO DIVERSION									
Walter W. Crawford	93.4L	1-5"						NO DIVERSION									
George Covert	8 94.1L	1-3" 2-6"	33					73	65	122	113	110	108	64	688	m 125	
Rancho Doe Rioe	94.7R	1-12"	2	24	1	4	209	253	337	377	392	272	202	137	2210	n 425	
L. S. Crane	95.5R	1-16"					105	128	104	180	196	192	94	72	1071	p 257	
Earl Wheatly (q)	95.8R	1-10"						104			16	2	15	28	165	r 80	
W. P. Cook	96.0L	1-18"	44	24	5	4	198	202	336	390	588	497	168	44	2500	465	
--GAGING STATION - SAN JOAQUIN RIVER AT GRAYSON--	96.05																
--LAIRD SLOUGH BRIDGE--	96.05																
E. S. Brush	98.5R	1-7"					48	31	27	69	47	58	23		s 303	50	
Rancho El Pescadero	98.9L	1-18"	1				127	286	180	317	600	345	9	97	1962	t 942	
John C. Tosta	103.0L	1-14"						34	46	3	22	21	7	1	134	60	
--GAGING STATION - SAN JOAQUIN RIVER AT PATTERSON BRIDGE--	104.4																
Patterson Water District	104.4L	1-14" 2-18" 3-20" 1-36"	117				2810	9480	7740	9380	10400	9850	3460	334	u 53570	v 13490	161
Chase Brothers	104.5R	1-10" 1-18"					50	560	267	561	490	362	183	23	2496	442	
M. L. Simmons	104.52L	1-5"									12	10			22	7	
--PATTERSON BRIDGE--	104.6																
Charles Kincaid	104.7L	1-2"						NO DIVERSION									
Chase Brothers	106.5R	1-10" 1-12"					219	380	310	624	457	567	286	292	3135	500	
Tony Spinelli	109.1R	1-12"					28	28	56	56	60	82	39	23	372	79	
Twin Oaks Irrigation Company	109.8L	1-12" 2-16" 1-18"		18			642	1540	1340	2000	1810	1670	831	29	9880	w 1547	u 321
T. J. Nendereon	110.8R	1-8"							46	156	213	216	78	96	805	p 140	
J. Holtzman	112.5L	1-3"						NO DIVERSION									
L. A. Thomson	112.55R	1-18"	15				118	242	219	303	338	397	299	225	2156	x 338	
Turlock Sportsmen Club	113.3R	1-2"						1		1	1	1			4	4	
Frank C. Mosier	113.4R	1-10"					105	116	129	166	138	124	121	87	986	y 208	

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TABLE 214

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Vernalis to Fremont Ford Bridge) (continued)

November 1958 through October 1959

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--GAGING STATION - SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE--	113.4																
--CROWS LANDING BRIDGE--	113.4																
Clyde Beatty (z)	113.6L	1-4"							2	2	2	2	1		9	2	
Alfred Silveira	113.85R	1-6"						6		6	11	10	3		36	18	
Alfred Silveira	114.35R	1-7"					1	5	2	6	5	9	6		34	aa 24	
Hazel P. Crow	114.6L	1-2"						NO DIVERSION									
Frank C. Mosier	114.63R	ab 1-4" 1-8"					46	44							90	90	
Manual A. Serpa	114.75R	2-10"					268	184	258	388	411	304	76		1889	340	
--ORESTIMBA CREEK--	115.2L																
Roy F. Crow	115.8L	1-10"	109				41		127	34	96	117	44	28	596	140	
L. B. Crow	116.05L	1-14"	23				64	102	136	135	135	145	50	44	834	198	
John W. Greer	116.5R	1-12"				1	161	250	287	437	432	294	149	43	2054	292	
Stevinson Water District (ac)	121.3R	1-18"							61	139	84	62	106	56	508	ad 203	
--MERCED RIVER SLOUGH--	122.2R																
--GAGING STATION - SAN JOAQUIN RIVER NEAR NEWMAN--	123.7																
--MERGED RIVER--	123.75R																
Stevinson Corporation	129.1L	1-16"	410	238	26					64	189	64	60	655	1706	250	
VERNALIS TO FREMONT FORD BRIDGE																	
Total			1149	878	224	243	13440	33450	28220	32320	37620	31610	11240	4670	195100	53120	482
Average cubic feet per second			19	14	4	4	219	562	459	543	612	514	189	76	269		
Monthly use in per cent of annual			0.6	0.4	0.1	0.1	6.9	17.2	14.5	16.6	19.3	16.2	5.8	2.4			

* Mileage along San Joaquin River from its mouth 4.5 miles below Antioch.
** West Stanislaus Irrigation District intake canal. The intake canal joins the San Joaquin River at Mile 91.8L. Distance from San Joaquin River and bank are shown in parentheses.
8 Plant is located on old channel which joins the San Joaquin River at this mile
a Formerly listed as A. J. Chisholm.
b Of this acreage, 75 were double cropped.
c Includes 50 acres of Chisholm lands.
d Includes 532 acres which also received an undetermined amount of controlled drainage water.
e Includes an undetermined amount of water returned to river by spill.
f This acreage also received an undetermined amount of controlled drainage water. Includes 385 acres which also received an undetermined amount of well water.
g Includes 69 acres which also received an undetermined amount of controlled drainage water.
h This acreage also received 27000 acre-feet of Delta-Mendota Canal water as follows: April 3983, May 717, June 5664, July 7959, August 6272, September 1870 and October 535. Of this acreage 1046 were double cropped. Includes 1984 acres irrigated outside the district and 22 acres of Banta Carbona Irrigation District lands. Portions of this acreage also received an undetermined amount of well water.
i Combined acreage for Miles **(0.7N) and **(1.1N).
j Includes 135 acres which also received an undetermined amount of controlled drainage water.
k Includes 20 acres which also received an undetermined amount of controlled drainage water.
m Includes 40 acres which also received an undetermined amount of controlled drainage water.
n This acreage also received an undetermined amount of Turlock Irrigation District water.
p Formerly listed as Bostick Brothers.
q Of this acreage, 20 were double cropped.
r Includes an undetermined amount of water diverted to slough for recreational use.
s This acreage also received an undetermined amount of well water
t 305 acres of rice listed for Mile 109.8L also received an undetermined amount of water from Mile 104.4L.
u Of this acreage, 1521 were double cropped. This acreage also received 3559 acre-feet of Delta-Mendota Canal water as follows: November 169, March 432, April 595, May 460, June 532, July 565, August 570 and September 236. Includes 52 acres which also received an undetermined amount of well water.
v Of this acreage, 448 were double cropped.
w Includes 32 acres which also received an undetermined amount of Turlock Irrigation District water.
x Of this acreage, 50 were double cropped.
y Installed prior to November 1958. Not previously listed.
z Of this acreage, 15 were double cropped.
aa The 4" unit was installed in 1959.
ab New installation in 1959.
ac The acreage listed for Mile 121.3R San Joaquin River also received an undetermined amount of water from Mile 3.8R Merced River. 125 acres listed for Mile 121.3R San Joaquin River were previously listed for Mile 3.8R Merced River.

TABLE 215

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Fremont Ford Bridge to Gravelly Ford)

November 1958 through October 1959

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.		General	Rice
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5																
Wolfsen Land and Cattle Company (a)	154.7R																
Erreca Farms	161.4R	1-8"					73	8	36	77	173	117	16		b 500	36	
Erreca Farms	161.9R	1-18"					313	171	146	465	673	609	83		2460	b 617	
Dye Farms	162.9R	c 1-12"					13	17			88	31			d 149	29	
Dye Farms	163.2R	e 1-10"					177		140	279	216	277	12	116	1217	d 440	
Central California Irrigation District 1	f 164.95L	1-12"				91	99	17							207		
Central California Irrigation District 2	f 185.6L	1-16"				316	249	217	304	472	370	157	91		2176		
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS--	186.0																
San Luis Canal Company	186.6L	Gravity	4000	4240	504	3300	13200	17200	20300	24000	27500	24800	19000	7290	165300	155900	
--FIREBAUGH BRIDGE--	198.4																

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TABLE 215

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Fremont Ford Bridge to Gravelly Ford) (continued)

November 1958 through October 1959

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct		General	Rice
Luke Zaninovich	206.02R	1-4"						6		7	16	11			40	18	
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA--	206.2																
--MENDOTA CAM--	208.63																
Central California Irrigation District	208.8L	Gravity	10400	1260	3420	13600	58100	74200	78100	86400	95200	84300	41200	23800	570000	144984	8669
--FRESNO SLOUGH--	209.0L																
--DELTA-MENDOTA CANAL--	8 (0.2L)																
Firebaugh Canal Company (g)	8 (0.4L)		502		956	1780	6290	11200	10900	12900	14100	13900	4910	2630	80070	22393	4251
M. Jensen (g)	8 (1.9R)		8					22	12	14	65	10	28	53	212	186	
Paul Matheson	8 (3.2L)	1-10" 1-12"	26				191	205	160						582	h 930	
Grace Brothers	8 (3.4L)	1-16"	370	28		559	792	322	457	516					3044	h 1770	
State of California Mendota Waterfowl Management (g)	8 (6.45-8.20)		2320	783	157	363	101	210	214	2420	2780	2260	3140	4580	19330		
Fresno Slough Water Association (g)	8 (9.20-10.50)		165			113	555	442	508	1060	877	827	250	208	5005	772	249
--JAMES BYPASS--	8 (11.80R)																
Traction Water District (g) (i)	88 (0.75)		200			52	543	736	926	964	980	1010	264	434	6109	1034	712
Reclamation District 1606 (g)	88 (1.50)					20	34	38	67	97	95	44		14	409	114	39
James Irrigation District (g)	88 (4.4)		381			1030	3810	2060	1040	3440	4750	3550	1700	309	22070	18743	1208
Tranquillity Irrigation District (g)	8 (12.00-13.75)		165			996	5320	2110	3570	7030	7210	5770	746	117	33030	7418	1375
Melvin O. Hughes (g)	8 (12.20)							12	115	77	79	81	4		368		40
--LONE WILLOW SLOUGH--	219.8R																
Columbia Canal Company (g)	219.8R		2020	1150	1040	1600	4520	6440	8260	8300	8900	8390	5720	2880	59220	56266	1966
--GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE--	219.83																
United Farms Company	225.2L	1-4"						PLANT REMOVED									
--GRAVELLY FORD CANAL--	232.8R																
FREMONT FORD BRIDGE TO GRAVELLY FORD Total Average cubic feet per second Monthly use in per cent of annual			20560 345 2.1	7461 122 0.8	6077 99 0.6	23820 429 2.5	94380 1538 9.7	115600 1942 11.9	125300 2042 12.9	148500 2495 15.3	164100 2675 16.9	146100 2381 15.0	77160 1296 7.9	42430 692 4.4	971500 1342	411600	18510

* Mileage along San Joaquin River from its mouth 4.5 miles below Antioch.
** Plant is located on Sand Slough which diverts from San Joaquin River at Mile 168.4R. Distance from San Joaquin River and bank are shown in parentheses.
8 Plant is located on Fresno Slough which diverts from San Joaquin River at Mile 209.0L. Distance from San Joaquin River and bank are shown in parentheses.
88 Plant is located on James Bypass which diverts from Fresno Slough at Mile 8 (11.80R). Distance from Fresno Slough and bank are shown in parentheses.
a No record. Plant will not be reported in subsequent reports.
b 185 acres listed for Mile 161.9R also received an undetermined amount of water from Mile 161.4R.
c This is a portable unit which diverts water at Miles 162.9R and 163.2R.
d 49 acres listed for Mile 163.2R also received 88 acre-feet of water from Mile 162.9R.
e Previously listed as a 12" unit.
f Central California Irrigation District plants at Miles 169.95L and 185.6L supplement gravity supply.
g Data furnished by U. S. Bureau of Reclamation.
h This acreage also received an undetermined amount of well water.
i Formerly listed as Traction Ranch.

TABLE 216

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Gravelly Ford to Friant Dam)

November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct.		General	Rice
W. A. Kochergan 1 (a)	233.66R	1-6"		46			25	37		38	38	35	20	30	269	b 68	
W. A. Kochergen 2 (c)	234.22R	1-2"						3	5	4	4	3	4	4	27	b 8	
A. J. Wheeler	** 235.02	1-2½"													d		
Ernest D. Hart	235.03L	1-3"													d		
Dewey W. Johnson	235.33R	e 1-4" 1-5" e 1-8"		1	1		25	32	30	49	61	53	21		273	f,g 118	
Dewey W. Johnson 2 (h)	236.28R	1-6"		10			3	11	15	25	33	56	32	3	188	f 36	
--GAGING STATION - SAN JOAQUIN RIVER NEAR BIOLA--	236.4R																
Hansen, K. J. Smith and R. C. McInturf	237.33L	1-8"	43	12	7		11		12		116	114	71		386	i 215	
Thompson Materials and Construction Company Incorporated (j)	237.54R	1-8"					NONAGRICULTURAL USE										
J. A. Peterson	237.98R	1-6"					36	70	41	39	76	29	6		297	83	

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TABLE 216

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Gravelly Ford to Friant Dam) (continued)

November 1958 through October 1959

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept	Oct.		General	Rice
--SKAGGS BRIDGE--	238.18																
--BOWSER RECORDING GAGE--	242.41L																
A. and M. Overgaard	243.84R	1-5" 1-6"							34	68	9	18	2	47	178	k 118	
Y. H. Donny 1	244.86L	1-7"		17				44	1	22	14	53	3		154	m 127	
D. C. and P. Farms Incorporated	245.36R	1-6"							16	52	43	29	5	5	150	n 85	
Mrs. George Mordecai	245.63R	1-1½"					NO DIVERSION										
Y. H. Donny 2	245.81L	1-6"						7				27		8	42	m 38	
Stewart and Nuss Incorporated (c)	246.85R	1-3"					NONAGRICULTURAL USE										
--U.S. 99 HIGHWAY BRIDGE--	247.38																
State of California Department of Public Works (j)	247.38R	1-4"					NONAGRICULTURAL USE										
Burgin and Sons (c)	247.38R	1-4"					NONAGRICULTURAL USE										
G. Oberti and Sons	247.64R	1-5"		15			15		2	10	11	15	12	5	85	f 129	
Mrs. Carl R. McKinley	248.51L	1-3"					NO DIVERSION										
--SANTA FE RAILROAD BRIDGE--	249.23																
River Rock Products (j)	249.67L	1-4" 1-5"					NONAGRICULTURAL USE										
Miller Brothers (j)	251.38L	1-1½"					NONAGRICULTURAL USE										
Miller Brothers	251.46L	1-6"					15	43	33	53	59	41	1	45	290	45	
Premier Furs Incorporated(j)	251.68L	1-1"															
Stewart and Nuss Incorporated (c)	252.63L	1-4"					NONAGRICULTURAL USE										
J. W. Carrell 1	253.00L	1-8"	4				34	99	141	138	233	64	83	3	799	f 104	
J. W. Carrell 2	253.30L	1-4"							2	8	63	63	5		141	21	
Lloyd Conroy	253.79R	1-6"					4	17	19	28	37	24	9	3	141	42	
Sycamore Island Stock Ranch 7 **	254.50	p 1-6"							20		28	62	29		139	13	
L. L. Howard	254.93R	1-6"						36	14	82	102	83	3		320	55	
Sycamore Island Stock Ranch 6 **	255.00	1-3"		1	1				13	6	11	15	1		48	30	
Sycamore Island Stock Ranch 5	255.34R	1-6"	12					42	29	54	63	34	50	8	292	70	
Sycamore Island Stock Ranch 4 **	255.84	1-5"							82	61		81	7		231	35	
Sycamore Island Stock Ranch 3	255.93R	1-4"									33		38	31	102	26	
Sycamore Island Stock Ranch 2	256.52R	1-8"					7	31		71	77	66	50	22	324	74	
Pappas Brothers 1 (q)	257.1L	1-8"						50	87	162	110	39			448	101	
Pappas Brothers 2 (r)	257.70L	1-12"	10					11	8	39	64	17			149	62	
Griffith Construction Company (j)	257.74R	1-6" 1-8"					NONAGRICULTURAL USE										
L. D. Cobb	258.08R	1-6" 1-7"					61	114	109	131	161	117	24		717	s 158	
--STATE HIGHWAY 41 BRIDGE--	258.33																
R. J. Curtis	258.39L	1-4" 1-7"					7	38	23	56	67	48	23		262	60	
W. E. Roberts 1	258.8L	1-6"					7	28	37	44	46	32	15	17	226	t 140	
W. E. Roberts 2	258.9L	1-12"	6	2	2	2	35	103	78	104	98	64	45	38	577	t	
J. E. Cobb	259.39R	2-6"	2	2			26	35	42	70	101	72	26	26	402	104	
--OLD LANES BRIDGE--	259.78																
Marjorie E. Sims	259.8L	1-6"						39	26	50	20	38	12		185	42	
Andersen Rock Products (j)	259.8L						NONAGRICULTURAL USE										
J. E. Cobb 3	260.4R	1-6"	28	17	1		46	78	107	95	121	113	69	73	748	110	
San Joaquin Rock Company (j)	260.9L	1-3" 1-4"					NONAGRICULTURAL USE										
R. C. Arnold 1(u)	261.53R	1-4"	15	18			7	65	55	68	68	57	71	66	490	144	
R. C. Arnold 2 (u)	261.53R	1-5"					8	6	2	15	29	21	5		86	26	
Duane M. Folsom	261.7L	1-6"	28				41	127	129	214	229	218	96	50	1132	228	
E. G. Rank 3 (v) **	261.75	1-5"							10	19	16	15	4		64	18	
R. C. Arnold 3 (w)	261.78R	1-2½"						1	1	1	1	1	1	1	7	1	
E. G. Rank 2 **	261.90	1-5"						10		8	20	12			50	30	
E. C. Rank 1 **	262.07	1-6"						18		19	35	25			97	38	
Duane M. Folsom	262.27L	1-8"						12		14	55	34	3		118	x 60	
E. G. Rank, Jr.	262.32L	1-5"	10	7			12	65	69	79	88	66	31	33	x 460	50	
A. Brown	262.43L	1-5"	11	5			7	21	32	33	33	30	19	4	195	50	
E. C. Rank	262.48L	1-5"	12	10	5	10	13	10	5	42	58	62			227	y 70	
Dale McCoon 1	262.60R	1-5"						17	17	85	131	123	38		411	z 105	
W. H. Rohde	262.66L	1-7"	2	2			29	19		55	93	81	12		293	98	

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TABLE 216

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Gravelly Ford to Friant Dam) (continued)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.		General	Rice
Dale McCoon 2	263.40R	1-7"	1	36			82	109	127	202	264	232	123	133	z 1309	87	
Dale McCoon 3	263.48R	1-6"	11	7	1	1	33	46	72	79	113	101	60	29	553	78	
H. K. Jansen	263.76R	1-5"	18	31			57	78	78	85	108	91	52	73	671	aa 81	
Pacific Cement and Aggregates Company (ab)	264.00L	1-6" 1-8"					NONAGRICULTURAL USE										
H. W. Ball 1	ac 264.00L	1-5"						17	31	30					78	14	
H. W. Ball 2	ac 264.00L	1-5"	15					30	70	69	38	43	42		307	20	
H. W. Ball 4	264.08L	1-6"						14	14	21	27	30	12		118	29	
Ike D. Ball	264.6R	1-6"	22	66			48	114	121	114	115	113	95	114	922	35	
W. F. Ball	264.83L	1-4" 1-5"	11	15			10	49	55	71	68	66	37	30	412	48	
V. O. Roullard 1	265.38L	1-6"						19	27	12	61	84	29		232	71	
V. O. Roullerd 2	265.4L	1-5"	1	1			2	42	11	32	46	45	18	4	202	18	
Virgil Durando	267.56L	ad 1-8"	4				21	32	52	107	210	175	39	6	646	216	
--GAGING STATION - SAN JOAQUIN RIVER BELOW FRIANT--	268.13L																
--FRIANT BRIDGE--	268.88																
Wishon-Watson Company	269.18R	ae 1-8"		12				25	30	31	34	36	22	7	197	40	
--COTTONWOOD CREEK--	269.53R																
--FRIANT DAM--	269.63																
GRAVELLY FORD TO FRIANT DAM																	
Total			266	333	18	13	727	1914	2034	3064	3839	3266	1475	918	17870	3972	0
Average cubic feet per second			4	5	0	0	12	32	33	51	63	53	25	15	25		
Monthly use in per cent of annual			1.5	1.9	0.1	0.1	4.1	10.7	11.4	17.1	21.5	18.3	8.2	5.1			

* Mileage along San Joaquin River from its mouth 4.5 miles below Antioch.
** Point of diversion and place of use is on island in midstream.
a Formerly listed as W. A. Kochergen.
b This acreage was double cropped.
c New installation in 1959.
d Domestic uee.
e The 4" unit was a temporary installation in 1959. The 8" unit was installed in 1959.
f This acreage also received an undetermined amount of well water.
g Of this acreage, 43 were double cropped.
h Formerly listed as Dewey W. Johnson.
i Includes 5 acres of Santa Fe Vintage Company vineyards, formerly listed as Morello Winery. This acreage also received an undetermined amount of Fresno Irrigation District water.
j Installed prior to November 1958. Not previously listed.
k The acreage also received an undetermined amount of Madera Irrigation District water.
m This acreage also received an undetermined amount of Fresno Irrigation District water.
n Includes 36 acres which also received an undetermined amount of well water.
p Replaces a 4" unit.
q Formerly listed as Emma Pappas 1.
r Formerly listed as Emma Pappas 2.
s Includes 35 acres of J. E. Cobb lands.
t Combined acreage for Miles 258.80L and 258.90L.
u R. C. Arnold 1 and R. C. Arnold 2 were formerly a combined listing as R. C. Arnold.
v Formerly listed as E. C. Rank.
w Formerly listed as R. C. Arnold.
x 50 acres listed for Mile 262.27L also received an undetermined amount of water from Mile 262.32L.
y Includes 32 acres which also received an undetermined amount of well water.
z 20 acres listed for Mile 262.60R also received an undetermined amount of water from Mile 263.40R.
aa Of this acreage, 42 were double cropped.
ab Formerly listed as Pacific Coast Aggregate Company.
ac Plant is located on pond whose major source of supply is from the Pacific Cement and Aggregates Company plant at this mile.
ad Replaces a 7" unit.
ae Replaces a 5" unit.

TABLE 217

DIVERSIONS AND ACREAGES IRRIGATED - MERCED RIVER

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.		General	Rice
--HILLS FERRY BRIDGE--	1.1																
Stevinson Water District 1	1.8R	1-16"	3					97	80	136	182	31	205	32	766	290	
Stevinson Water District 2	3.8R	a 1-18"	20		3			331	418	585	564	760	303	220	b 3204	c 598	
Milton Gordon	4.3L	1-10"	8	5	5			20	49	61	56	76	38	24	342	141	
--GAGING STATION - MERCED RIVER NEAR STEVINSON--	4.6																
Salvatore De Angelis	4.8L	1-12"						17	24	24	29	19	13	15	141	33	
Maria De Angelis	5.8L	1-12"			1		24	28	45	78	60	58	10		304	d 83	
3H Securities	6.1L	1-15"						PLANT REMOVED									
Stevinson Water District 3	7.7L	1-20"	36	38	114			165		344	933	732	733	126	3221	e 1417	
Manuel Clementino	8.5L	1-12"		1				23	20	28	42	30	19	3	166	80	
Manuel Clementino	8.9L	1-12"					32	47	11	32	46	41	156	17	382	f 116	
Samuel S. McCullagh	9.4L	1-12"					21	174		198	198	190			781	212	
J. R. Jacinto	9.6L	1-12"	12				36	65	75	85	127	82	44	18	544	g 107	
Bob Adams (h)	10.0R	1-8"							5	5	11			4	25	20	
R. W. Adams, I. E. Silva, L. Alves and A. Mattos	10.35L	1-10"	5	10	2	3	43	203	176	337	329	267	183	118	1676	i 384	
Bob Adams (h)	10.4R	1-6"							6	6	10			6	28	33	
John Vierra	10.8R	1-3"	3				9	12	14	17	28	23	12	16	134	49	

2028 8-59 500 SPC

TABLE 217

DIVERSIONS AND ACREAGES IRRIGATED - MERCED RIVER (continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan	Feb	Mar	Apr	May	June	July	Aug.	Sept.	Oct.		General	Rice
Manuel Freitas	10.9L	1-12"	14				26	35	71	88	173	161	53	23	644	j 187	
R. E. Prusso and John Vierra	10.9L	1-5" 1-8" 1-12"		13			26	72	58	130	213	188	99	63	862	k 207	
M. Turner	11.25R	1-2"						PLANT REMOVED									
E. and J. Gallo Winery Ranch (m)	11.6L	1-6" 1-8"						66	48	125	109	139			487	215	
E. and J. Gallo Winery Ranch	11.6L	1-12"					17	15	23	62	66	62			245	n	
--MILLIKEN BRIDGE--	11.65																
Claude Hayes (p)	11.65R	1-3"								5	5	2	3		15	q,r 52	
Claude Hayes (s)	t 12.0R	1-4"									7	6	3		q 16	18	
E. and J. Gallo Winery Ranch	12.35L	1-10"	83					23	20	53	82	36		11	308	n	
Soren Husman	12.4L	1-6"		2				7	10	19	32	19	3		92	36	
Claude Hayes (s)	12.5R	1-12"						4	31	23	21	13			92	30	
E. and J. Gallo Winery Ranch	12.85L	1-12"	280	102			51	53	46	227	214	134		12	1119	n 410	
M. Turner	13.4R	1-4"						PLANT REMOVED									
Anthony C. Pires	14.3R	1-6"					1	20	14	34		12		10	91	50	
J. M. Souza	14.5L	1-10"						29	36	65	53	70	13	11	277	u 87	
Anthony C. Pires	14.8R	1-6"						6	4	11	10	7	1	1	40	v 25	
C. Koehn	14.8L	1-5"						PLANT REMOVED									
Anthony C. Pires	15.4R	1-6"						5	5	6	6	6	6		34	12	
A. H. Stafford	16.2R	1-7"						11	2	8	5	9	2		37	16	
--GAGING STATION - MERCED RIVER NEAR LIVINGSTON--	16.49																
E. and J. Gallo Winery Ranch	16.5L	1-10"	155	79			19	64	33	152	143	27		94	766	w 392	
G. J. Carpenter	17.05L	1-7"							36	10	34	21	25	19	145	x 59	
S. P. Magsalay (y)	18.1R	1-6"						5	2	13	25	3			48	31	
Neal DeGraff (z)	18.4L	1-6"	1	6			3	21	18	32	59	13	12	9	174	43	
Harold S. Tune	18.5L	1-4"	1	2			4	5	6	7	9	8	4	3	49	aa 26	
William Standridge	18.6R	1-5"							5	5	3	2	3		18	12	
Elmer Pritchard	19.3R	1-6"						2		12					14	18	
S. P. Magsalay	19.8L	1-6"		2			1	7	1	1	4	5			21	19	
City of Livingston	19.8L	1-6"	2				4	4	4	6	3	4	2		29	12	
E. Schmidt	20.3R	1-6"	1	4			5	10	16	24	23	18	8	6	115	31	
J. E. Gallo	20.4L	1-7"	32					26	11	93	133	18			313	w 116	
G. L. Carlson	20.6R	1-6"					7	15	20	19	26	25	12	8	132	35	
--U. S. HIGHWAY 99 BRIDGE--	21.04																
--SOUTHERN PACIFIC RAILROAD BRIDGE--	21.05																
Gallo Cattle Company	21.05	1-6"						8		10	12	11	8		49	ab 26	
Gallo Cattle Company	22.2R	1-10" 1-16"	20		3	2	102	267	396	152	398	463	268	362	2433	ac 335	
Gallo Cattle Company	22.8R	1-12" 1-15"	9	25			31	79	72	149	178	158	66	61	828	180	
C. L. Hart	23.0L	ad 1-3"						NO DIVERSION									
C. L. Hart	23.1L	ad 1-3"						NO DIVERSION									
C. L. Hart	ae 23.2L	ad 1-3" af 1-6"						2		5	5				12	14	
Norman Pasadori	24.2R	1-6"						32	16	28	38	5	30	14	163	45	
C. L. Ball	24.5L	1-6"						16	13	4	11	21		12	77	40	
Joe Nishihara	25.0R	1-5"						20	21	27	50	11	29		158	34	
Joe Nishihara	25.5R	1-6"						10	26	63	59	60			218	75	
Merced River Farms Association	26.3R	1-8"	2				29	41	63	84	90	65	18	12	404	v 112	
W. C. Magneson	26.55R	ag 1-3" 1-6" ah 1-8"					4	14	12	23	38	42	17	2	152	52	
W. C. Magneson (h)	26.8R	1-3" 1-10"						INDUSTRIAL USE ONLY									
Joseph Vierra	26.8L	1-10"		13									10		23	ai 38	
--SANTA FE RAILROAD BRIDGE--	27.05																
W. C. Magneson	27.5R	1-10"						17	71	86	116	142	54		486	aj 142	
--GAGING STATION - MERCED RIVER AT CRESSEY--	27.55																
Joe Nishihara	27.8R	1-6"	3	1				12	3	6	9	6	2	1	43	27	
Al and Harriet Wentzel	27.85L	1-1½"						3	3	4	4	5	1		20	13	
M. Uyekubo	28.1R	1-5"		4				5	2	5	4	3	1	2	26	20	
John Faria	28.4R	1-5"						1		19	13	17			50	15	

TABLE 217

DIVERSIONS AND ACREAGES IRRIGATED - MERCED RIVER (continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
J. Campadonica	28.6R	1-6"							8	7	5	12	6		38	18	
Oliver Alves	28.6R	1-6"								36	17	33			86	85	
Anthony Demchille	29.1R	1-7"						36		48	17	59			160	59	
Anthony Demchille	29.75R	1-6"							12	30	19	9			70	31	
Manuel Silva	29.9R	1-6"								95	79	84			258	65	
Manuel Silva	29.9R	1-10"							1	41	53	57	20		172	98	
Frances I. Rose	30.7L	1-6"						9	19	14	16	7	14	4	83	51	
Manuel Silva	30.95R	1-12"								118	211	203			532	135	
W. F. Bettencourt	31.1L	1-8"							72	155	128	95	81		531	113	
Manuel Silva	31.4R	1-10"						25	16	171	138	52			402	90	
Jack Pretzer	31.6R	1-6"						NO DIVERSION									
P. Nilerides	32.3L	1-12"			3	1	20	7	45	96	33	13	95		ak 313		
Jack Pretzer	32.4R	1-6"										9			9	45	
--SHAFFER BRIDGE--	32.5																
Albert Chavas	33.1R	am 1-10"						2	24	33	76	80	9		224	114	
Cyrus O. Davajan	33.55R	1-8"							49	39		52			140	80	
Walter Bettencourt (h)	34.4L	1-1½"						INDUSTRIAL USE ONLY									
W. F. Bettencourt, P. Hilarides, and Cowel Lime and Cement Company	36.9L	Gravity	298	119		278	203	419	658	1260	856	1070	373	206	5740	ak 794	
Reinero Brothers	39.2L	1-6"						PLANT REMOVED									
River Rock Company	40.05R	1-8"						INDUSTRIAL USE ONLY									
Ratzlaff Brothers	40.2L	1-4"					16	20	31	45	58	57	17		244	55	
Cowell Ditch (h)	45.3R	Gravity					1130	1920	2510	2910	3080	2600	722	265	15140	an 1526	
--GAGING STATION - MERCED RIVER BELOW SNELLING--	46.2																
MERCED RIVER Total			988	426	131	284	1864	4652	5586	8929	9884	8818	3806	1810	47180	10230	
Average cubic feet per second			17	7	2	5	30	78	91	150	161	143	64	29	65		
Monthly use in per cent of annual			2.1	0.9	0.3	0.6	4.0	9.9	11.8	18.9	20.9	18.7	8.1	3.8			

a Replaces a 20" unit.
b The acreage listed for Mile 121.3R San Joaquin River also received an undetermined amount of water from Mile 3.8R Merced River.
c 125 acres listed for Mile 121.3R san Joaquin River were previously listed for Mile 3.8R Merced River.
d Of this acreage, 36 were double cropped.
e Of this acreage, 217 were double cropped. This acreage also received an undetermined amount of water from East Side Canal.
f Of this acreage, 87 were double cropped.
g Of this acreage, 13 were double cropped.
h Installed prior to November 1958. Not previously listed.
i Of this acreage, 10 were double cropped.
j Of this acreage, 98 were double cropped.
k Of this acreage, 44 were double cropped.
m Formerly listed as Claude Nayes.
n Combined acreage for Miles 11.6L, 12.35L and 12.85L.
p New installation in 1959.
q 42 acres listed for Mile 11.65R also received an undetermined amount of water from Mile 12.0R.
r Includes 42 acres which also received an undetermined amount of controlled drainage water from Turlock Irrigation District.
s Formerly listed as M. Turner.
t Plant moved from Mile 11.7R in 1959.
u Of this acreage, 26 were double cropped.
v Of this acreage, 12 were double cropped.
w This acreage also received an undetermined amount of well water.
x Includes 16 acres of McKelvey lands. Includes 8 acres which also received an undetermined amount of well water. Of this acreage, 8 were double cropped.
y Formerly listed as S. Magsalay.
z Formerly listed as J. H. Thomas.
aa Of this acreage, 16 were double cropped.
ab This acreage was double cropped.
ac Includes 177 acres which also received an undetermined amount of well water.
ad This is a portable unit which diverts water at Miles 23.0L, 23.1L and 23.2L.
ae Plant moved from Mile 23.4L in 1959.
af The 3" unit was replaced by a 6" unit during 1959.
ag The 3" unit was installed in 1959.
ah Replaces a 5" unit.
ai This acreage also received an undetermined amount of water from Merced Irrigation District.
aj Of this acreage, 32 were double cropped. Includes 35 acres which also received an undetermined amount of well water.
ak 282 acres listed for Mile 36.9L also received 318 acre-feet of water from Mile 32.3L. Of this acreage, 33 were double cropped.
am Replaces a 6" unit.
an Of this acreage, 163 were double cropped.

TABLE 218

DIVERSIONS AND ACREAGES IRRIGATED - TUOLUMNE RIVER

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
E. T. Mape	0.4R	1-4"					14								14	70	
E. T. Mape	1.3R	1-20"	46	462	80	13	173	153	431	660	741	1060	329	448	4596	a 2954	
J. V. Steenstrup Estate	1.9L	1-12"						239		185	445	280			1149	b,c 195	
J. DeSouza and J. B. Silva	2.2R	1-6"					1	41	20	34	20	38			154	d 70	
J. V. Steenstrup Estate	2.9L	e 1-10" 1-12"						48	129	354	534	351			f 1416	c 320	
--GAGING STATION - TUOLUMNE RIVER AT TUOLUMNE CITY--	3.35																
Russell Murray	3.4L	g 1-6"					14	15		19		9			57	h 18	
Bancroft Fruit Farms	4.1R	1-12"					4	4	3	40	13	23	4	8	99	89	
Bancroft Fruit Farms	5.0R	1-10"		4			12	14	29	52	59	48	24	6	248	140	
Delle Battestin (i)	5.9L	1-14"										82	123		205	j 674	

2938 6-59 200 STC

TABLE 218

DIVERSIONS AND ACREAGES IRRIGATED - TUOLUMNE RIVER (continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Western Farms	6.3L	1-16"	10				22	27	40	40	104	102	44		389	k 159	
R. L. Maxfield	6.9R	1-7"		1			6	13	19	38	14	18	9	2	120	m 33	
Eugene Boone, Galen Hartwich and Tony Lemos	7.1R	1-10"	18	18			63	62	55	53	78	113	46	20	526	n 159	
W. F. Duffy	7.2R	1-7"						21	16	35	32	17	17		138	p 38	
Ella T. Rahilly	7.8L	1-10"					15	27		23	22	38			125	q 44	
W. F. Duffy	8.4R	1-10"					41	109	93	80	117	58	53		551	r 121	
Ella T. Rahilly	8.5L	1-10"					25	43	44	49	54	54	42		311	s 73	
A. C. Watkins	9.4L	1-12"						97	62	74	172	196			601	55	
McClure Ranches	9.7R	1-12"							200		165		57		422	53	
Raymond Boone (t)	10.2R	1-14"					48	69	42	107	119	98	67	46	596	u 108	
William Podesto	15.75R	1-5"		3			3	1	6	8	4	6			31	17	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.8																
--U. S. HIGHWAY 99 BRIDGE--	16.05																
--GAGING STATION - TUOLUMNE RIVER AT MODESTO--	16.05																
--DRY CREEK--	16.5R																
Jack Gardella	20.3R	1-10"	7	2			36	39	46	48	54	47	23	32	334	v 70	
H. W. Ortman	20.5R	1-12"					22	37	15	15	13	26	1	6	135	w 85	
Henry Codoni	20.85R	1-5"						NO DIVERSION									
Harold Madden (x)	20.9H	1-4"						7	2	20	9		9		47	y 27	
--SANTA FE RAILROAD BRIDGE--	21.6																
A. L. Leib	22.8R	1-3" 1-6"					3	18	20	24	12	27	10	12	126	z 100	
G. R. Trent	23.5R	1-1½" 1-6"					4	11	7	33	20	21	25	6	127	aa 30	
C. S. Blakesley	23.6R	1-6"		2			7	10	9	21	17	13	2	1	82	16	
John Palmer	25.8L	1-3"	10					23	36	52	35	43	17	12	228	80	
Harold J. Schmidt	26.6L	1-4"						11	14	15	17	15	8	5	85	32	
Harold J. Schmidt	27.0L	1-4"								6	8	6	3	3	26	ab 61	
Standard Materials (ac)	27.3L	1-3"						INDUSTRIAL USE ONLY									
Mervin Mattos and Charles Bird	27.3R	1-10"						5	7	7	7	6	6		38	12	
Alan T. Buckley (ad)	27.9R	1-12"								23	16	30	14		83	40	
Octavia McEwen	28.1R	1-4"							10	10	5	5	8		38	ae 30	
Ronald R. Painter	28.3R	1-7"							3	16	10	9			38	ae 33	
Santa Fe Rock and Sand (ac)	28.5R	1-6"						INDUSTRIAL USE ONLY									
Michel Investment Company	28.8R	1-8"					25	58	64	72	97	86	45	37	484	109	
E. B. and D. V. Butterfield	28.9R	1-10"								14	19	20			53	57	
Hugh Merriam	29.1R	1-8"							18	15	15	11			59	35	
J. W. and Lola May Short	29.2L	1-7"						NO DIVERSION									
Charles Fairbairn	29.3R	1-6"						20	8	28	53	22			131	83	
J. W. and Lola May Short	29.8L	1-10"	12	9	5	2	1	24	28	40	57	55	46	9	288	af 122	
Firpo Ranch	30.2L	1-10"	1				21	32	45	99	88	80	16	49	431	95	
W. J. Chase	30.4R	1-4"						2	1	1		1	2		7	5	
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	31.5																
W. R. Andrews (ac)	31.6L	1-2"						1	1	1	1	1			5	5	
R. E. Proctor	31.7R	1-2½"						NO DIVERSION									
--GAGING STATION - TUOLUMNE RIVER AT HICKMAN BRIDGE--	31.7																
A. G. Laughlin	34.2R	1-3" 1-6"						4		6	6	3	1		20	16	
Donald Ketcham	38.4R	1-1½"	2	1			1	7	10	12	12	10	4	2	61	28	
A. E. Ketchman	39.4R	1-8"		15			34	52	43	100	79	83	37	41	484	102	
George H. Sawyer	39.8L	1-6"					2	19	14	27	44	13	9	4	132	ag 412	
--GAGING STATION - TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE--	39.9																
George H. Sawyer	40.8L	1-14"	6	18			11	48	42	109	129	115	53	7	538	ag	
W. A. Hall	43.3L	1-6"						2		5	3	11	6		27	6	
Curtner Zanker	45.7L	1-10"			4			43	8	63	63	74	9		264	91	

2928 8-59 500 SPO

TABLE 218

DIVERSIONS AND ACREAGES IRRIGATED - TUOLUMNE RIVER (continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct		General	Rice
Dolling Brothers	46.3R	1-8"						46	49	97	98	87	48	25	450	42	
O. E. Fine	46.7L	1-6"						NO DIVERSION									
--GAGING STATION - TUOLUMNE RIVER AT LA GRANGE--	50.5																
TUOLUMNE RIVER Total			112	535	89	15	608	1502	1689	2830	3680	3511	1217	781	16570	7214	0
Average cubic feet per second			2	9	1	0	10	25	27	48	60	57	20	13	23		
Monthly use in per cent of annual			0.7	3.2	0.5	0.1	3.7	9.1	10.2	17.1	22.2	21.2	7.3	4.7			

a This acreage also received an undetermined amount of controlled drainage water from Modesto Irrigation District.
b Includes 20 acres which also received an undetermined amount of controlled drainage water.
c 60 acres listed for Mile 2.9L were previously listed for Mile 1.9L.
d Of this acreage, 36 were double cropped.
e The 10" unit was installed in 1959.
f Includes an undetermined amount of water returned to river by spill.
g Replaced a 5" unit in 1956.
h Of this acreage, 16 were double cropped.
i New installation in 1959.
j This acreage also received an undetermined amount of water from Turlock Irrigation District.
k Of this acreage, 40 were double cropped.
m Includes 2 acres of Wells lands.
n Of this acreage, 20 were double cropped.
p Of this acreage, 19 were double cropped.
q Of this acreage, 29 were double cropped.
r Of this acreage, 22 were double cropped.
s Of this acreage, 30 were double cropped.
t Formerly listed as Tuolumne Cooperative Farms, Incorporated.
u Of this acreage, 35 were double cropped.
v This acreage also received an undetermined amount of drainage water from Empire Sewer Farm.
w Of this acreage, 55 were double cropped.
x New installation in 1959.
y Includes 6 acres of Codoni lands.
z Includes 15 acres which also received an undetermined amount of well water.
aa Includes 14 acres of A. L. Leib lands.
ab This acreage also received an undetermined amount of well water.
ac Installed prior to November 1958. Not previously listed.
ad Formerly listed as B. and L. Ranch.
ae Includes 5 acres which also received an undetermined amount of controlled drainage water.
af Includes 40 acres which also received an undetermined amount of well water. Of this acreage, 10 were double cropped.
ag Combined acreage for Miles 39.8L and 40.8L. This acreage also received an undetermined amount of well water. Of this acreage, 128 were double cropped.

TABLE 219

DIVERSIONS AND ACREAGES IRRIGATED - DRY CREEK

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct		General	Rice
Podesto and Arata	0.4R	1-6"						13	11	20	20	18	6		88	a 101	
--MODESTO-EMPIRE TRACTION COMPANY BRIDGE--	0.7																
--STATE HIGHWAY 132 BRIDGE (YOSEMITE BOULEVARD)--	0.8																
--LA LOMA BOULEVARD BRIDGE--	1.2																
--EL VISTA AVENUE BRIDGE--	2.9																
Henry LaBarbera	5.0L	1-3"					1	2	3	5	3				14	[illegible]	
James Melrose	5.1R	1-1½"								1		1			2	3	
--GAGING STATION - DRY CREEK NEAR MODESTO--	5.3																
--CLAUSS ROAD BRIDGE--	5.4																
--SANTA FE RAILROAD BRIDGE--	6.4																
--CHURCH STREET BRIDGE--	7.2																
--WELLSFORD ROAD BRIDGE--	8.7																
R. F. Nunes	9.7	1-1½"						1	1	2	1	1			6	5	
K. O. Weaver	10.4R	1-6"						NO DIVERSION									
Roy Brant	10.6R	1-5"						NO DIVERSION									
--ALBERS ROAD BRIDGE--	11.0																
--MODESTO IRRIGATION DISTRICT CANAL CROSSING--	11.1																
Joe Fagundes, Jr.	12.05L	1-6"						10	10	13					33	b 25	
Edward Johnson	12.1R	1-6"						NO DIVERSION									
Edward Johnson	12.3R	1-4"						PLANT REMOVED									
Edward Johnson	12.6R	1-6"					12	27	44	53	118	67	40	32	393	c,d 132	
Edward Johnson	12.7R	1-6"					11	56	30	68	39	60	32	38	334	e 18	
Irene Lucksinger	13.4L	1-7"						PLANT REMOVED									
Aaron F. Layman	14.4L	1-6"							3	2	2	2			9	18	

2928 8-59 500 SPC

TABLE 219

DIVERSIONS AND ACREAGES IRRIGATED - DRY CREEK (Continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Joe Fagundes	14.7R	1-10"	6	4	7	17	106	93	103	110	149	162	71	31	859	100	
H. H. French	17.2R	1-8"						12		21					33	24	
--OAKDALE-WATERFORD HIGHWAY BRIDGE--	17.4																
DRY CREEK																	
Total			6	4	7	17	130	214	205	295	332	311	149	101	1771	429	0
Average cubic feet per second			0	0	0	0	2	4	3	5	5	5	3	2	2		
Monthly use in per cent of annual			0.3	0.2	0.4	1.0	7.3	12.1	11.6	16.7	18.7	17.6	8.4	5.7			

a This acreage also received an undetermined amount of controlled drainage water from Modesto Irrigation District.
b This acreage also received an undetermined amount of water from Modesto Irrigation District.
c 37 acres listed for Mile 12.6R also received an undetermined amount of water from Mile 12.7R.
d Includes 95 acres which also received an undetermined amount of water from Oakdale Irrigation District.

TABLE 220

DIVERSIONS AND ACREAGES IRRIGATED - STANISLAUS RIVER

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.		General	Rice
Roy Moresco	0.3R	1-6"								27	10	12			49	30	
E. W. Hawkins	0.9R	1-6"	2				7	2	13	29	33	24	19		129	35	
--GAGING STATION - STANISLAUS RIVER NEAR MOUTH--	1.9																
A. J. Chisholm Estate and C. M. Carroll (a)	1.9R	1-16"						68	18	33	28	20			167	75	
C. C. Angyal	2.4R	1-18"	90				169	211	264	248	319	176	185		1662	320	
Faith Ranch	3.4L	b 2-12" 1-16"	217				178	676	680	820	973	619	280	139	c 4564	d 702	
Overton Ranch (Koetitz and Faith Ranch)	3.4L	b															
Reclamation District 2064	4.0R	1-14" 1-16" 2-20"	134	42			923	1350	1730	1680	2360	2000	1000	716	e,f 11940	g 1944	
Reclamation District 2075	4.05R	2-16" 1-20"	450	100	25		1740	3210	2580	2950	3010	3070	1800	1640	20580	f,h 3100	
D. F. Koetitz (i)	4.7L	1-14"										143	210	89	442	c 200	
Louis W. Pelucca	4.8L	1-14"						17	8	19	43	11	14	9	121	50	
Henry Pelucca	5.5L	1-16"							84	104	155	161	53		557	109	
J. W. Updike	5.8L	1-12"					21	32	23	22	21	12	2		133	55	
C. C. Updike	6.4L	j 1-2" 1-12"	32					13	142	28	95	79	19	4	412	78	
D. J. Macedo	8.4R	1-16"		34			150	305	329	373	516	517	163	197	2584	k 444	
N. E. Cannon	8.7R	1-10"					217	360	211	411	312	337	63	127	2038	m 353	
D. F. Koetitz	9.4L	1-10"	31	2		2	144	244	354	437	403	420	180		2217	380	
--GAGING STATION - STANISLAUS RIVER AT KOETITZ RANCH--	9.5																
John L. Hertle	9.8L	1-10"	2	30	22		22	30	49	38	42	49	16	6	306	54	
Nelson Santos	10.0R	1-16"						74	16	72	76	15			253	n 110	
Nelson Santos (i)	10.5R	1-16"						138	25	138	154	53			n 508	100	
H. E. Van Veldhuizen	12.7R	1-12"						17	7	16	44	21	10		115	35	
Dick Bus	12.8L	1-1½"						NO DIVERSION									
Modesto Sand and Gravel Company (p)	15.6L	1-3½"						INDUSTRIAL USE ONLY									
--GAGING STATION - STANISLAUS RIVER AT RIPON--	15.7L																
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.7																
--U. S. HIGHWAY 99 BRIDGE--	15.7																
A. Girardi	17.7L	1-16"		2			1	106	1	202	177	194	37		e 720	q 324	
E. J. Freethy	19.0R	1-14"					18	56	107	205	155	137	76	110	864	r 182	
E. J. Freethy	19.5R	1-3" 1-4"						NO DIVERSION									
Libby, McNiel and Libby (s)	20.9R	1-14"	2	2			22	113	194	114	55	246	110	1	859	200	
Heath Ranch	21.2L	t 1-6"						25	29	35	35	30	12	29	195	15	
Mae Giovanetti Smith	u 24.2L	1-6"					9				10				19	v 134	
G. W. Deyoe (i)	27.2L	1-4"								3	4	11			18	20	
Claude and Lucile McClan (p)	29.3R	1-5"						4	11	4	11	3			33	21	
--MODESTO-ESCALON HIGHWAY BRIDGE--	w 29.6																

2928 8-59 500 SPO

TABLE 220

DIVERSIONS AND ACREAGES IRRIGATED - STANISLAUS RIVER (continued)

November 1958 through October 1959

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct Acre Feet	Acreage Irrigated	
			Nov.	Dec.	Jan	Feb.	Mar	Apr.	May	June	July	Aug	Sept	Oct.		General	Rice
F. K. Floden	x 29.9L	1-10"						34	45	48	31	32	1		191	50	
--SANTA FE RAILROAD BRIDGE--	33.4																
--GAGING STATION - STANISLAUS RIVER AT RIVERBANK--	33.6																
R. P. Barton	36.2R	1-7"		5				13	22	29	30	22			121	142	
Oakdale Irrigation District y (Crawford Pump)	37.7L	1-14"		5			91	122	86	132	258	177	23		e 894	z 398	
Martin Markiewith (p)	37.75R	1-2"								1		2			3	6	
Van Norman Ranch (p)	38.0L	1-4"							8		12				20	24	
Mrs. Mary P. Mondo (p)	38.2L	1-4"					6	2			9	10	10		37	20	
Oakdale Irrigation District y (Brady Pump)	39.1L	1-12"		14			30	92	36	181	180	139	43	13	e 728	aa 396	
--OAKDALE-STOCKTON NIGHWAY BRIDGE--	41.2																
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	41.2																
--GAGING STATION - STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE--	47.0																
Harry Himes	49.2L	1-3"					13	10	14	18	15	14	7	4	95	29	
E. R. Jensen (ab)	50.5L	1-6"					2	21	25	39	39	35	10	16	187	42	
Wesley Milam	51.6R	1-4"						4	8	11	8	11	3		45	19	
Standard Rock Company (p)	51.8L	1-10"	INDUSTRIAL USE ONLY														
Walter B. Wilms Estate (ac)	52.0L	1-10"	NO DIVERSION														
--KNIGHTS FERRY BRIDGE--	54.5																
STANISLAUS RIVER Total			960	236	47	2	3763	7349	7119	8449	9623	8802	4346	3100	52810	10200	0
Average cubic feet per second			16	4	1	0	61	124	116	142	157	143	73	50	74		
Monthly use in per cent of annual			1.8	0.4	0.1	0.0	7.0	13.7	13.2	15.7	17.9	16.4	8.1	5.8			

a Formerly listed as A. J. Chisholm and C. M. Carroll.
b Two 12" units previously listed as Overton Ranch (Koetitz and Faith Ranch) at Mile 3.4L are now listed for Faith Ranch at Mile 3.4L.
c The acreage listed for Mile 4.7L also received 850 acre-feet of water from Mile 3.4L.
d Includes 330 acres which also received an undetermined amount of controlled drainage water.
e Includes an undetermined amount of water returned to river by spill.
f The acreage listed for Mile 4.05R also received an undetermined amount of water from Mile 4.0R.
g Of this acreage, 135 were double cropped. 23 acres also received an undetermined amount of controlled drainage water.
h Of this acreage, 88 were double cropped.
i New installation in 1959.
j The 2" unit was installed in 1959.
k Of this acreage, 38 were double cropped.
m Of this acreage, 155 were double cropped.
n The acreage listed for Mile 10.0R also received an undetermined amount of water from Mile 10.5R.
p Installed prior to November 1958. Not previously listed.
q Includes 217 acres which also received an undetermined amount of water from Modesto Irrigation District.
r Of this acreage, 54 were double cropped.
s Formerly listed as Allen Ranch.
t Replaces a 5" unit.
u This is a portable unit which diverts water between Miles 24.2L and 25.8L.
v Includes 30 acres which also received an undetermined amount of well water and 49 acres which also received en undetermined amount of slough water.
w Bridge relocated in 1959.
x Previously listed as Mile 29.6L.
y Oakdale Irrigation District for season of 1959 maintained plants at Miles 37.7L and 39.1L to supplement district gravity supply.
z Of this acreage, 110 were double cropped. 288 acres also received an undetermined amount of water from Stanislaus River, Mile 58.6, the District gravity diversion.
aa Of this acreage, 115 were double cropped. This acreage also received an undetermined amount of water from Stanislaus River, Mile 58.6, the District gravity diversion.
ab Formerly listed as J. S. Hardin.
ac Formerly listed as Walter B. Wilms.

TABLE 221

DIVERSIONS AND ACREAGES IRRIGATED - TULE RIVER

November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct Acre Feet	Acreage Irrigated	
			Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June	July	Aug	Sept	Oct.		General	Rice
Pioneer Ditch	a 0.3R	Gravity	567	537	308	339	452	529	928	217					3877	b 2019	
Rosedale Water Company	1.5L	1-5"	7	4				6	25	37	28	18	32	2	c 159	b 100	
Lois Cottle and Carl Brown	1.65L	1-3"	4	3				7	5						19	b 15	
--GAGING STATION - TULE RIVER AT WORTH BRIDGE--	2.2																
Boydston Brothers	2.6L	1-4"	38	38	4	11		50	28	8					177	b,c 210	
Campbell-Moreland Ditch	d 3.2L	Gravity		278	421	948	761	419	683	120					e 3630	b 929	
--PORTER SLOUGH--	3.2R																
--GAGING STATION - PORTER SLOUGH AT PORTERVILLE (B LANE BRIDGE)--	3.2R (2.4)																
--PIONEER SPILL--(f)	3.2R (3.7R)																
Porter Slough Ditch	g 3.2R (4.5R)	Gravity				166	13								h 179	b 10	
--GAGING STATION - PORTER SLOUGH NEAR PORTERVILLE (NEWCOMB ROAD)--	3.2R (6.1)																
Vandalia Ditch	i 3.9L	Gravity			311	283	205								j 799	157	

2928 8-59 500 SPC

TABLE 221

DIVERSIONS AND ACREAGES IRRIGATED - TULE RIVER (continued)

November 1958 through October 1959

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov-Oct Acre Feet	Acreage Irrigated	
			Nov	Dec.	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct		General	Rice
--SANTA FE RAILROAD BRIDGE--	5.9																
Poplar Ditch	k 6.6L	Gravity	7		350	1080	1970	390	372						4169	m	
--STATE HIGHWAY 190 BRIDGE--	6.7																
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.8																
Hubbs-Miner Ditch	n 7.2R	Gravity	96	806	1090	456	708	534	418						4108	b,p 1254	
--STATE HIGHWAY 65 BRIDGE--	7.4																
Rhodes-Fine Ditch	q 9.2L	Gravity			101	6	314								421	m	
--OLIVE AVENUE BRIDGE--	10.7																
--FRIANT-KERN CANAL CROSSING--	11.3																
Woods-Central Ditch	r 11.8L	Gravity						NO DIVERSION									
--GAGING STATION - TULE RIVER BELOW PORTERVILLE AT ROCKFORD AVENUE BRIDGE--	12.6																
--HUBBS-MINER SPILL-- (s)	12.9R																
Little Pioneer Ditch	15.0L	Gravity						NO DIVERSION									
--OTTLE BRIDGE--	15.2																
TULE RIVER																	
Total			719	1666	2585	3289	4423	1935	2459	382	28	18	32	2	17540	4694	0
Average cubic feet per second			12	27	42	59	72	33	40	6	0	0	1	0	24		
Monthly use in per cent of annual			4.1	9.5	14.7	18.8	25.2	11.0	14.0	2.2	0.2	0.1	0.2	0.0			

a Flow measured at gaging station on Pioneer Ditch located approximately 1.0 mile below head.
b This acreage also received an undetermined amount of well water.
c 14 acres listed for Mile 2.6L also received an undetermined amount of water from Mile 1.5L.
d Flow measured at gaging station on Campbell-Moreland Ditch located approximately 2600 feet below head.
e Includes an undetermined amount of water served to Vandalia Irrigation District well fields.
f 1027 acre-feet of water flowed into Porter Slough as follows: November 316, December 176, January 198, February 143, March 78, April 21, May 94, June 1.
g Flow measured at gaging station on Porter Slough Ditch located approximately 150 feet below head.
h An undetermined amount of water was supplied to a sinking basin.
i Flow measured at gaging station on Vandalia Ditch located approximately 1000 feet below head.
j The greater pirtion of this water was used to recharge Vandalia Irrigation District well field from which 1269 acres were irrigated.
k Flow measured at gaging station on Poplar Ditch located approximately 4750 feet below head.
m Irrigated acreage unavailable.
n Flow measured at gaging station on Hubbs-Miner Ditch located approximately 3400 feet below head.
p Includes 982 acres in the Hubbs-Miner Ditch Company and 272 acres in the Gilliam-McGee Ditch Company.
q Flow measured at gaging station on Rhodes-Fine Ditch located approximately 3100 feet below head.
r Flow measured at gaging station on Woods-Central Ditch located approximately 100 feet below head.
s 727 acre-feet of water flowed into the Tule River as follows: December 260, January 176, February 43, March 94, April 28, May 26.

TABLE 222

DIVERSIONS AND ACREAGE IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS*
November 1958 through October 1959

Water User	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total	Acreage Irrigated General	Acreage Irrigated Rice
San Joaquin River															
Friant-Kern Canal															
Total acre-feet diverted	18377	0	0	42780	149302	70955	57107	143195	132734	96765	35470	58357	805000	379583	702
Average cubic feet per second	309			770	2434	1192	931	2406	2164	1577	596	951	1112		
Monthly use in % of annual	2.3			5.3	18.5	8.8	7.1	17.8	16.5	12.0	4.4	7.2			
Madera Canal															
Total acre-feet diverted	0	0	0	2735	31238	14589	23925	43992	62052	24040	0	65	202600	137327	81
Average cubic feet per second				49	509	245	390	739	1011	39		1	280		
Monthly use in % of annual				1.3	15.4	7.2	11.8	21.7	30.6	11.9		0			
Merced River															
Merced Irrigation District															
Main Canal	0	0	0	0	41213	64591	69248	89593	100304	71848	0	0	436800	103320	5317
Northside Canal	159	236	206	115	1365	3033	3414	4247	4800	3892	597	395	22460	3742	0
Total acre-feet diverted	159	236	206	115	42578	67624	72662	93840	105104	75740	597	395	a 459300	b 107062	5317
Average cubic feet per second	3	4	3	2	694	1136	1184	1575	1713	1234	10	6	634		
Monthly use in % of annual	0	0.1	0	0	9.3	14.7	15.8	20.4	22.9	16.5	0.1	0.1			
Tuolumne River															
Turlock Irrigation District															
Total acre-feet diverted	312	12580	489	2240	50770	71610	64340	79510	68960	72890	40290	25730	c 489700	d 169382	100
Average cubic feet per second	5	205	8	40	828	1203	1049	1336	1124	1188	677	419	676		
Monthly use in % of annual	0	2.6	0.1	0.5	10.4	14.6	13.1	16.2	14.1	14.9	8.2	5.3			
Modesto Irrigation District															
Total acre-feet diverted	20	4466	1226	1073	21504	39226	36497	35392	39021	31816	15777	6537	e 232600	f 67513	374
Average cubic feet per second	0	73	20	19	350	659	595	595	636	519	265	107	321		321
Monthly use in % of annual	0	1.9	0.5	0.5	9.2	16.9	15.7	15.2	16.8	13.7	6.8	2.8			
Waterford Irrigation District															
Total acre-feet diverted	0	0	0	0	1937	5077	5315	6120	5514	4628	3028	2531	34150	g 7060	0
Average cubit feet per second					32	85	87	103	90	75	51	41	47		
Monthly use in % of annual					5.7	14.9	15.6	17.9	16.1	13.6	8.9	7.4			
Stanislaus River															
Oakdale Irrigation District															
Northside Canal	0	0	0	0	6138	15774	16822	12318	12545	12864	3541	7110	87110	h 20646	2663
Southside Canal	0	0	0	0	9765	20536	27427	23306	23361	22430	7710	11544	146100	i 35042	369
Total acre-feet diverted	0	0	0	0	15903	36310	44249	35624	35906	35294	11251	18654	233200	j 55688	3032
Average cubic feet per second					259	610	721	598	585	575	189	304	322		
Monthly use in % of annual					6.8	15.6	19.0	15.3	15.4	15.1	4.8	8.0			
South San Joaquin Irrigation District															
Total acre-feet diverted	0	0	0	0	23362	46304	39246	36845	34240	42307	25197	554	248100	k 61268	298
Average cubic feet per second					381	778	640	619	558	691	423	9	343		
Monthly use in % of annual					9.4	18.7	15.8	14.8	13.8	17.1	10.2	0.2			
American River															
Natomas Water Company															
Total acre-feet diverted	1420	1390	1430	1650	1770	2200	2690	2760	3010	2770	2640	2280	26010		
Average cubic feet per second	24	23	23	30	29	37	44	46	49	45	44	37	36		
Monthly use in % of annual	5.5	5.3	5.5	6.3	6.8	8.5	10.3	10.6	11.6	10.6	10.1	8.8			
San Juan Suburban Water District															
Total acre-feet diverted	1970	1800	1350	1110	1720	2700	3410	4400	4760	4500	3300	3000	34020		
Average cubic feet per second	33	29	22	20	28	45	56	74	78	73	55	49	47		
Monthly use in % of annual	5.8	5.3	4.0	3.3	5.1	7.9	10.0	12.9	14.0	13.2	9.7	8.8			

* Data furnished by water users and rounded according to criteria applied by the Department.
a An additional 131700 acre-feet of water was pumped from wells.
b Of this acreage, 4443 was double cropped. Does not include an undetermined amount of riparian water users acreage.
c An additional 137800 acre-feet of water was pumped from wells.
d Of this acreage, 22571 was double cropped.
e An additional 105788 acre-feet of water was pumped from wells.
f Of this acreage, 9646 was double cropped.
g Of this acreage, 150 was double cropped.
h Of this acreage, 437 was double cropped.
i Of this acreage, 165 was double cropped.
j Includes 794 acres liated for Miles 35.9L and 37.0L on the Stanislaus River. This acreage also received 49126 acre-feet of water from wells and controlled drainage.
k This acreage also received an undetermined amount of well water, and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 5590 was double cropped. Includes 1924 acres served by sub-irrigation.

TABLE 223

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
November 1958 through October 1959

Water User	Mile Post from Canal Head From	To	Deliveries in Acre-Feet Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
								Contra Coata Canal							
Contra Coata County Water Diatrict															
Industrial and Municipal			3099	3350	2932	2353	2945	4029	5631	6680	7517	7065	4905	4406	54912
Agricultural			39	185	38	24	114	711	925	1282	1331	637	389	173	5848
Total			3138	3535	2970	2377	3059	4740	6556	7962	8848	7702	5294	4579	60760
								Delta-Mendota Canal							
Plain View Water District	8.50	20.00	83	124	0	57	1703	2877	2404	2688	3444	2896	1355	409	18040
Westside Irrigation District	14.78		0	0	0	0	410	891	0	317	919	311	0	0	2848
Banta-Carbona Irrigation District	20.42		0	0	0	0	29	1270	0	0	886	605	0	0	2790
Hospital Water Diatrict	18.05	30.96	218	182	220	140	1425	4437	3621	4276	5596	4660	1211	552	26538
West Stanislaua Irrigation Dist.	31.31		0	0	0	0	0	3983	717	5664	7959	6272	1870	535	27000
Kern Canon Water District	31.31	35.18	24	27	49	1	454	1473	993	1314	1855	1261	453	141	8045
Del Puerto Water District	35.73	42.08	51	472	27	20	550	1840	1810	2163	2454	2016	849	309	12561
Patterson Water District	42.51		169	16	24	0	432	595	460	532	565	570	236	8	3607
Salado Water District	42.10	46.83	0	51	65	2	382	1783	500	1268	1902	938	247	69	7207
Sunflower Water District	44.23	52.02	4	220	47	37	710	2136	1268	1955	2601	1460	522	69	11029
Orestimba Water District	46.83	51.50	1	0	0	122	551	2474	1276	1909	2964	1799	333	136	11565
Foothill Water District	51.65	57.46	7	3	0	0	610	844	917	817	1177	873	225	36	5509
Davis Water District	54.01	56.82	0	0	22	0	92	222	242	1072	636	482	296	29	3093
Muatang Water District	56.83	62.67	0	0	0	0	453	682	801	1453	1842	1165	357	120	6873
Quinto Water District	63.96	67.55	0	0	0	0	220	394	411	460	645	528	195	156	3009
Romero Water District	66.70	68.03	0	0	0	0	180	146	254	273	484	306	38	0	1681
San Luis Water District	69.21	90.57	47	132	76	260	1936	2589	1520	2378	4656	3939	594	646	18773
Sam Hamburg Farms	90.91		0	0	0	0	0	0	0	0	0	0	1	1	2
Grassland Water District	70.00		2454	0	0	0	0	0	0	0	0	0	4941	5556	12951
Grassland Water District (a)	Pool		3620	0	0	0	0	0	0	0	0	0	12533	15796	31949
State Fish and Game	70.00		0	0	0	0	0	0	0	0	0	0	250	250	500
Panoche Water District	93.25		2127	1418	2244	6800	8723	5847	6500	10680	12205	8929	1873	1310	68656
Eagle Field Water District	94.26		0	0	0	22	143	990	900	666	833	655	313	0	4522
Westside Golf Association	95.95		7	5	2	1	9	14	16	20	18	14	13	9	128
Oro Loma Water District	96.62		19	0	0	52	126	923	623	699	793	587	24	131	3977
Mercy Springs Water District	97.70	97.85	0	23	122	84	195	567	710	662	858	774	14	70	4079
Mercy Springs Water District (a)	Pool		0	0	0	0	0	81	210	0	0	0	0	0	291
Widren Water District	102.03		0	0	48	76	53	329	330	328	342	454	20	0	1980
Broadview Water District	102.95		771	131	323	2550	1967	2087	2640	3084	3368	3044	1262	916	22143
Total			9602	2804	3269	10224	21353	39474	29123	44678	59002	44538	30025	27254	321346
								Madera Canal							
Madera Irrigation District	6.1	32.2	780	0	0	1626	12930	8737	7997	25843	34174	17536	0	0	109623
Adobe Ranch	20.6		89	91	46	0	0	0	0	0	3	71	0	0	300
Chowchilla Water District	35.9		0	0	0	28	15945	6434	15444	16384	27670	7545	0	0	89450
Total			869	91	46	1654	28875	15171	23441	42227	61847	25152	0	0	199373

TABLE 223

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS (contd.)
November 1958 through October 1959

Water User	Mile Post from Canal Head From	To	Deliveries in Acre-Feet Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Total
								Friant-Kern Canal							
Fresno County Water District #18	Friant Dam		0	0	0	1	3	7	9	13	17	14	7	4	75
Round Mountain Ranch	20.17		5	0	0	0	6	9	13	10	13	14	16	12	98
Orange Cove Irrigation District	35.87	53.32	504	0	0	0	1000	4253	3634	5556	6175	4816	1892	1390	29220
City of Orange Cove	43.45		4	0	0	0	9	23	26	35	42	33	21	16	209
Stone Corral Irrigation District	56.9	64.4	93	0	0	0	337	1091	714	1823	2257	1894	464	220	8893
Ivanhoe Irrigation District	65.04	68.13	190	0	0	0	559	1321	1767	2037	1650	1146	904	1379	10953
Tulare Irrigation District	68.14	71.29	0	0	0	8138	35673	7351	0	34884	3005	0	0	12206	101257
Exeter Irrigation District	72.5	80.6	877	0	0	387	1864	3312	2660	2757	2975	2200	1055	821	18908
Lindsay-Strathmore Irrigation District	85.6		1720	0	369	371	1793	3261	3644	3882	4102	4290	3245	2767	29444
Lindmore Irrigation District	86.2	91.1	1603	0	0	1174	5046	5191	3783	5272	6325	5637	3870	3021	40922
Porterville Irrigation District	93.86	98.13	87	0	0	309	901	549	722	1099	1382	1131	609	397	7186
Lower Tule Irrigation District	94.9	98.6	5066	0	0	10471	35963	14946	13055	26125	41725	27392	5264	18486	198493
Saucelito Irrigation District	98.62	107.37	307	4	0	375	4015	762	2539	4701	6599	5945	1184	149	26580
Terra Bella Irrigation District	102.65		232	0	0	0	317	972	897	1202	1567	1634	1184	885	8890
Pixley Irrigation District	102.69		30	0	0	0	0	0	0	0	0	0	0	0	30
Delano-Earlimart Irrigation District	109.46	118.45	7605	2009	0	7910	28279	15799	12385	24712	25188	16967	7587	7884	156325
Rag Gulch Water District	117.96		512	240	0	0	0	0	0	0	0	0	0	0	752
South San Joaquin Municipal Utility District	117.44	127.97	2870	889	0	2614	22753	9511	6829	18044	18550	12441	3408	3985	101894
Schafter-Wasco Irrigation District	134.4	137.2	1148	1293	48	960	6970	2194	3350	8037	8634	6506	1863	1236	42239
Pacific Gas and Electric Company	150.83		0	236	180	0	0	0	0	0	0	0	0	0	416
Total			22853	4671	597	32710	145488	70552	56027	140189	130206	92060	32573	54858	782784

TABLE 224

EXPORTATIONS FROM SACRAMENTO-SAN JOAQUIN DELTA*
November 1958 through October 1959

Water Uaer	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
						Cache Slough							
City of Vallejo													
Total acre-feet diverted	480	400	418	336	517	885	1326	1512	1582	1507	1080	1122	11160
Average cubic feet per second	8	7	7	6	8	15	22	25	26	25	18	18	15
Monthly use in % of annual	4.3	3.6	3.7	3.0	4.6	7.9	11.9	13.5	14.2	13.5	9.7	10.0	
						Old River							
Contra Costa Canal													
Total acre-feet diverted	3425	3814	3252	2567	3721	5354	7093	8680	10017	8954	6222	5200	68300
Average cubic feet per second	58	62	53	46	61	90	116	146	163	146	105	85	94
Monthly use in % of annual	5.0	5.6	4.8	3.8	5.4	7.8	10.4	12.7	14.7	13.1	9.1	7.6	
Delta-Mendota Canal													
Total acre-feet diverted	29488	5935	15372	32434	120649	158455	156524	203389	236239	202262	109206	73995	1344000
Average cubic feet per second	495	97	251	584	1967	2662	2551	3417	3851	3297	1835	1206	1856
Monthly use in % of annual	2.2	.4	1.1	2.4	9.0	11.8	11.6	15.1	17.6	15.0	8.1	5.5	

* Data furnished by U. S. Bureau of Reclamation and totala rounded to criteria applied by the Department.

TABLE 225

DESCRIPTION OF ACTIVE SALINITY OBSERVATION STATIONS
1959 Water Year

Station	Miles from Golden Gate (a)	Time Interval (b) Hours	Time Interval (b) Mins.	Location
				SAN FRANCISCO, SAN PABLO, AND SUISUN BAYS
Point Pinole	19.0	2	50	South shore of San Pablo Bay, at Point Pinole on wharf of Atlas Powder Company.
Crockett	27.7	3	30	West end of Carquinez Strait, south shore, 0.2 mile east of Carquinez Bridge on wharf of C. and H. Sugar Refining Corporation.
Benicia	32.5	3	50	East end of Carquinez Strait, north shore, 1.1 mile west of Southern Pacific Company railroad bridge at Benicia Arsenal.
Martinez	32.7	3	50	East end of Carquinez Strait, south shore, 1.0 mile west of Southern Pacific Company railroad bridge at Municipal Ferry Slip. (Bulls Head Point.)
West Suisun	37.0	4	10	West end of Suisun Bay, north shore, 2.5 miles northeast of Southern Pacific railroad bridge at service pier of U. S. Maritime Commission, Reserve Fleet mooring area.
Innisfail Ferry	47.3	4	50	Montezuma Slough, about one mile east of junction with Cutoff Slough near north end of Grizzly Island.
Port Chicago	41.0	4	20	South shore of Suisun Bay at U. S. Naval ammunition loading wharf below Port Chicago.
Spoonbill Creek	48.9	5	10	At Sacramento Northern Railroad Crossing.
Pittsburg	48.0	5	00	East end of Suisun Bay, south shore, at Pittsburg Yacht Harbor.
				SACRAMENTO RIVER DELTA
Collinsville	50.8	5	25	Sacramento River, north bank at juction with San Joaquin River.
Emmaton	57.6	5	45	Sacramento River, south bank, 5.9 miles downstream from Rio Vista.
Threemile Slough Bridge	60.0	5	55	At junction of Slough and Sacramento River.
Rio Vista Bridge	63.5	6	05	At highway bridge near northerly limits of Rio Vista.
Isleton Bridge	68.7	6	30	Sacramento River, one mile upstream from Isleton.
				SAN JOAQUIN RIVER DELTA
Antioch	54.9	5	55	San Joaquin River at City Water Works pumping plant.
Antioch Bridge	58.2	6	10	South shore San Joaquin River at Antioch Bridge.
Jersey Island	61.4	6	20	San Joaquin River, left bank, one mile below mouth of False River.
Threemile Slough	64.2	6	30	Threemile Slough, west bank, of junction of slough with the San Joaquin River.
Oulton Point	67.2	6	40	San Joaquin River, right bank, three miles upstream from junction of Threemile Slough.
San Andreas Landing	70.3	6	55	San Joaquin River, right bank, one mile below the mouth of the Mokelumne River.
Opposite Central Landing	72.0	7	00	Mokelumne River on Andrus Island directly opposite Central Landing on Bouldin Island.
Dutch Slough	73.0	7	05	At Bethel Island Bridge.
East Contra Costa I. D.	86.7	8	20	Indian Slough at East Contra Costa Irrigation District Pumping Plant.
Clifton Court Ferry	94.2	9	10	Old River just below junction with Grant Line Canal.
Mossdale Bridge	108.5	10	50	San Joaquin River at U. S. 50 Highway crossing about three miles southwest of Lathrop.
Vernalis	127.0	11	00	San Joaquin River at Durham Ferry Bridge above tidal influence.

a Mileage measured to station along main channel. For stations off the main channel, the mileage shown is the same distance along the main channel to a point whereon the time of the occurrence of the tidal phase is the same as that of the observation station.
b Time interval between high tide at Golden Gate and time for taking samples at station.

TABLE 226

MAXIMUM OBSERVED SALINITY AT BAY AND DELTA STATIONS
In parts of chloride per million parts of water

Water Year	1931	1938	1939	1944 a	1947	1952	1954	1955	1956 b	1957	1958	1959
Sacramento-San Joaquin unimpaired Runoff in per cent of average (c)	34	188	49	62	60	168	94	63	175	82	116	66
Station												
				San Francisco, San Pablo, and Suisun Bays								
Point Pinole					16800	14200	15600	19000	16200	17300	13800	d 17200
Crockett					17900	13200	16000	16600	15300	15100	11900	15000
Benicia				13900	15100	10400	14000	15100	12300	13900	12100	19200
Martinez	16900	11600	16400		13400	8900	11800	11900	11900	9570	7150	d 10200
West Suisun					13500	7900	12800	12600	11200	11800	7520	13200
Innisfall Ferry	14000	3300	13600	7900	8200	4200	6900	5780	5200	6050	3040	9640
Port Chicago					12400	6900	10900	12500	9750	10200	5830	15640
Spoonbill Creek (e)	13900	2560	11800	7300	6100	2800	5670	6400	4040	3920	930	6270
Pittsburg					5000	1200	4580	7800	3440	3050	1200	5110
				Sacramento River Delta								
Collinsville	12600	860	10400	4700	4500	783	4520	3880	2280	2690	d 550	5430
Emmaton							1380	1080	158	452	29	2600
Threemile Slough Bridge	8600		5900	1610	1250	175	818	635	56	277	18	1480
Rio Vista Bridge	7400		4050	550	270	175	126	158	21	20	17	219
Isleton Bridge	6350		2500	50	50	125	28	23	17	14	14	20
				San Joaquin River Delta								
Antioch	12400	510	9200	4000	4700	354	3430	3320	1270	1850	184	3410
Antioch Bridge					3000	f	1970	2360	160	1630	122	2570
Jersey Island							1480	1130	152	602	52	1220
Threemile Slough							960	428	82	180	45	1900
Oulton Point							395	376	105	186	44	d 567
San Andreas Landing							123	98	66	51	46	248
Opposite Central Landing	4250	100	1380	200	200	250	75	36	96	40	17	46
Dutch Slough	5100	110	2250	690	840	88	688	454	107	250	110	d 1044
East Contra Costa I. D.			320	140	190	152	200	196	173	551	333	356
Clifton Court Ferry	1300		190		160	112	160	146	146	146	126	211
Mossdale Bridge	120	120	160	130	180	122	209	224	206	205	d 219	d 261
Vernalis					g 180	121	198	231	202	182	146	297

a Releases of stored water from Shasta Lake commenced in 1944.
b Releases of stored water from Folsom Reservoir commenced in 1956.
c Average taken as mean annual unimpaired flow at foothill stations of major tributaries for 50-year period October 1907 through September 1957.
d Sample taken after low high tide.
e Prior to 4-28-57 sample taken at O & A Ferry.
f Record incomplete.
g Estimated.

TABLE 227

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

In parts of chloride per million parts of water

Samples taken at four-day intervals approximately one and one-half hours after high high tide.

Station	October 1958							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole	12700	a 12400	12400	d 12800		11500		12400
Crockett	8700	8630	10100	11300	8830	9200	9780	8830
Benicia	* 6350	7400	6960	7550	6750		7080	5870
Martinez	5000	a 5080	4680	*a 4810	5970	4730	4640	
West Suisun	4700	5060	5820		2590			5030
Innisfail Ferry	a 1220	a 1290	1360	1480		1440	1450	a 1440
Port Chicago		3320	a,d 4550	4290	4270		3860	
Spoonbill Creek	279	491						
Pittsburg	a 110	a 104	169	404				
			Sacramento River Delta					
Collinaville	a 40	a 65	42	361	a 95	63	30	
Emmaton		8	9	a 10	a 10	8	*a 35	a 9
Threemile Slough Bridge	11	10	14	11	11	10	10	11
Rio Viata Bridge	6	6	5	5	8	6	8	6
Isleton Bridge	7	6	7	6	11	4	9	5
			San Joaquin River Delta					
Antioch	88	a 43	78	116		62	67	58
Antioch Bridge	a 41			a 33	a 44		a 36	a 26
Jersey Island		a 16	* 17	20	a 15			
Threemile Slough	a 12		14	a 16		18		16
Oulton Point	12	a 13	12	12	a 14	14	b 15	15
San Andreas Landing	a 15	a 13	14	a 13	a 18	* 16	d 15	24
Opposite Central Landing	a 7	a 8	7	a 10	a 9	10	9	a 6
Dutch Slough	*a 21	*a 20	*a 22	*a 22	*a 24	*a 3	* 26	*a 30
E.C.C.I.D.	a 79	a 67	72	a 91	a 89	53	a 65	a 82
Clifton Court Ferry	a 42	a 49	a 65	a 79			a 54	a 56
Mossdale Bridge	a 78	a 77	a 80	a 84	a 85	88	a 47	a 54
Vernalis (g)	b 80		74		e 77	93	f 48	b 53
	November 1958							
			San Francisco, San Pablo and Suisun Bays					
Point Pinole		d 12400	a 12300	11900	10800		12600	10900
Crockett	8450	8400	10700	10100	7200	10100	9920	8660
Benicia	6390	6610	6960	9230	5650	6050	7180	6050
Martinez	4200	4000	4830	3660	5160	6210	6340	5680
West Suisun	4050			6260				3760
Innisfail Ferry	a,d 1450	1330	1120	1220	1360	1180	a 1330	a 1540
Port Chicago			4930	4220	2440		5340	
Spoonbill Creek	174	144		223				
Pittsburg	a 56	a 88	569	a 197	78	272	574	337
			Sacramento River Delta					
Collinsville	a 33	31	84	a 30	53	70	241	
Emmaton	a 9	10	14	14		12	a 17	14
Threemile Slough Bridge	12	13	12	14	26	13	14	14
Rio Vista Bridge	6	7	6	6	6	6	6	8
Isleton Bridge	7	5	6	5	5	5	11	7
			San Joaquin River Delta					
Antioch	36	33	48	a 72	44	46	78	66
Antioch Bridge	b 23	24	a 21	a 35	34	a 35	a 45	42
Threemile Slough		18					22	
Oulton Point	a 9	20	21	a 25	23	23	21	
San Andreas Landing	a 23	* 26	22	a 24	23	22	21	24
Opposite Central Landing	a 6	10	8	a 7	5	5	a 8	6
Dutch Slough	a 34	39		a 43	42	42	a 48	46
E.C.C.I.D.	a 92	b 89	87	a 80	81	81	79	
Clifton Court Ferry			a 56	a 56			a 52	
Mossdale Bridge	a 52	56	a 53	a 53	54	a 50	a 49	a 44
Vernalis (g)	c 56	b 52			53		e 48	

* Presumed.
a Taken after Low High Tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.

TABLE 227

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

In parts of chloride per million parts of water

Samples taken at four-day intervals approximately one and one-half hours after high high tide.

Station	December 1958							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole			12400		10900	12300		11400
Crockett	8840	9490	10100	9210	8780	10900	10800	8650
Benicia	6520	8160	6940	6670	7410	5400	8850	5970
Martinez	3670		5290	5830	4910	6830	7150	5590
West Suisun		4490		3480		a 3510	5680	3240
Innisfail Ferry		e,a 1560	1560	a 1660	1650	1670	a 1710	a 1860
Port Chicago	3360	b 5470	4260				1570	3220
Spoonbill Creek	313	399	430	503	306	669		509
Pittsburg			162	a 294	508	730		
			Sacramento River Delta					
Collinsville	a 34	153	131	a 48	63	242	372	a 85
Emmaton		e,a 13	a 16	a 15	14	15	18	13
Threemile Slough Bridge	15	15	15	14	15	13	13	11
Rio Viata Bridge	8	d 7	7	7	6	7	8	7
Isleton Bridge	6	6	6	8	6	7	7	10
			San Joaquin River Delta					
Antioch		63	98	75	83	158	171	90
Antioch Bridge	a 36	d 33	54	a 42	a,b 27	a 48	b 31	68
Jersey Island			32					
Threemile Slough	24			d 23	24	25		a 22
Oulton Point	22	20	23	23	22	25	20	a 24
San Andreas Landing		20	18	17	16	20	23	a 25
Opposite Central Landing		6	7	a 6	8	9	a 9	a 10
Dutch Slough	46	a 45	a 59	45	47	76	a 70	a 47
E.C.C.I.D.		70	66	61	71	a 46	48	a 80
Clifton Court Ferry			a 61			86	a 98	
Mossdale Bridge	49	47	a 54	a 53	94		a 86	a 96
Vernalis (g)		e 49	e 50	f 54	f 59	h 85	80	

Station	January 1959							
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole	d 12100		12100			11600		
Crockett	9220	11400	9540	5100	6170	7840		
Benicia				2430	4480	6000	4780	3480
Martinez	4450	7570	2670	2720	2410	3470	2330	
West Suisun		6810	4100	1040	1440		1840	
Innisfail Ferry	a 1790	1690	a 1680	1650	1560	1150	857	1100
Port Chicago			4030	494	1350	2900	1660	
Spoonbill Creek	434	1280	784	164	48	57	66	44
Pittsburg			67	44	35	38	34	
			Sacramento River Delta					
Collinsville		596	204	18	14		13	17
Emmaton			15	15	13	13	21	14
Threemile Slough Bridge	12	13	14	12	7	10	11	15
Rio Vista Bridge	8	8	10	8	7	9	13	10
Isleton Bridge	8	10	10	5	8	6	7	
			San Joaquin River Delta					
Antioch	d 80	237	148	46	36	36	37	43
Antioch Bridge			90	36	a,b,d 34	a 42	37	a 40
Jersey Island	37	53			35			43
Threemile Slough	24	32	28	17		33	36	28
Oulton Point	21	21	26	27	29	28	35	36
San Andreas Landing	39	26	22	28	22	39	29	24
Opposite Central Landing	12	17	a 11	8	7	11	a 9	12
Dutch Slough	48	40	a 53	63	72	72	a 74	75
E.C.C.I.D.	88	94	a 113	121	b,d 139	a 146	a 148	156
Clifton Court Ferry	96					a 99	a 104	
Mossdale Bridge	88	a 122	a 104	100	85	a 98	a 94	106
Vernalis (g)		96		e 103	f 78	b 94	b 106	

* Presumed.
a Taken after Low High Tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.
h Taken three days earlier.

TABLE 227

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

In parts of chloride per million parts of water

Samples taken at four-day intervals approximately one and one-half hours after high high tide.

Station	February 1959							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole		10500	a 10900		8850		a 4050	
Crockett	5930	7770	7030	5620	5320	2570	1330	
Benicia	5260	4950	3310	4080	3560	808	247	
Martinez	3540	3050	a 7450	3450	3810	588	a 99	
Weat Suisun		2770	720	1020		72	89	
Innisfail Ferry	a,e 1200	1010	769	769	a 343	a 808	a 289	
Port Chicago		1790	745	a,d 480	1890	77		
Spoonbill Creek	45	30	25	25	168	27	15	
Pittaburg	43	33	38	35	46	36		
			Sacramento River Delta					
Collinsville	19	19	18	17	18	15		
Emmaton **	15	15	17	a,b 17	20	16	8	
Threemile Slough Bridge	12	14	9	16		9	8	
Rio Vista Bridge	16	21	17	12	8	12	7	
Isleton Bridge	9	8	11	10	* 3	6	6	
			San Joaquin River Delta					
Antioch	37	37	47	42	48		46	
Antioch Bridge	45	34	43	a 37	a 49	b 34	a 10	
Jersey Island	47							
Threemile Slough	21	37	d 28	40	d 36		19	
Oulton Point	40	29	a 34	37	42	32	26	
San Andreas Landing	38	d 37	35	39	15	25	25	
Opposite Central Landing	34	a 10	10	10	10	9		
Dutch Slough	68	74	74	82	80	101	110	
E.C.C.I.D.	156	a 159	b 159	170	175	a 174	143	
Clifton Court Ferry	114	a 130				a,d 128	55	
Mossdale Bridge	128	a 119	130	91		a 48	59	
Vernalis (g)	c 115	118		e 87	e 64	f 49	b 59	
	March 1959							
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole	4870	8920	a 7600	a,d 7680	8480	e 11200	a 11200	
Crockett	3500	5400	5240	5050				
Benicia	2080	3520	2900	3310	5570	7220	6010	6480
Martinez	1100	939	a 638	1270	4220	5280	a 2050	4200
West Suisun	a 68		356	728	4140	4510	2530	3200
Innisfail Ferry	a 300	287	a 338	333	376	a 396	a 496	a 514
Port Chicago			96		a,b 2420	a,f 2560	2390	
Spoonbill Creek	20	20	21	26	28	68	102	79
Pittsburg	33		a 35	36		204	156	72
			Sacramento River Delta					
Collinsville	10	16	18	14	22	54		27
Emmaton	14	14	14	13	13	17	a 17	16
Threemile Slough Bridge	9	16	11	11	10	13	13	12
Rio Vista Bridge	9	15	14	11	11	14	10	12
Isleton Bridge	10	10	7	10	12	9	9	7
			San Joaquin River Delta					
Antioch	50	40	39	35	27	38	46	43
Antioch Bridge								
Jersey Island								
Threemile Slough	29	32	a 28	29	26		a,d 20	18
Oulton Point	28	30	a 30	30	29	26	a 18	18
San Andreas Landing	26	30	29	28	25	21	15	19
Opposite Central Landing	10	10	8	11	12	a 10	a 9	8
Dutch Slough	106	90	82	74	60	a 57	51	44
E.C.C.I.D.	144	a 148	145	139	181	a 132	125	106
Clifton Court Ferry	70	a 83	88		91	a 90	83	76
Moasdale Bridge	69	79	99	121	189	*a 201	173	153
Vernalis (g)	b 83	89				c 180	b 155	

* Presumed.
** Effective February, 1959, samples taken approximately 1 mile downstream.
a Taken after Low High Tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.

TABLE 227

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

In parts of chloride per million parts of water

Samples taken at four-day intervals approximately one and one-half hours after high high tide.

Station	April 1959							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole		a 11800	a 11600		a 13600	a 12800		
Crockett	7170	9140	8550	8340	e 9750	11700	12300	11500
Benicia	4660	5980	6340	4440	e 6510	9700	10200	9040
Martinez	4620	a 3330	a 2240	5710	a 5400	a 5190	a 7450	a 6270
West Suisun		845	3510	4030	4670			5970
Innisfail Ferry	a 512	a 480	d 476	a 496	* 500	774	a 1640	
Port Chicago	1990	b,a 2860	2840	3290	5030	6410		
Spoonbill Creek	52	100	113	128	388	973	1550	1470
Pittsburg	51	a 51	a 46	120	a 156	a 1590		
			Sacramento River Delta					
Collinsville	30	a 17	20	27	a 56	a 392	1220	a 683
Emmaton	13	14	15	20	a 17		180	a 99
Threemile Slough Bridge	11	13	13	9	8	14	43	a 18
Rio Vista Bridge	10	7	8	7	14	9	9	14
Isleton Bridge	8	6	5	9	9	12	9	
			San Joaquin River Delta					
Antioch	35	a 32	a 35	38	a 56	a 192	548	a 276
Antioch Bridge						a 39	391	a 101
Jersey Island								
Threemile Slough		a 14	11	16		a 14	23	a 19
Oulton Point	b 18	14	a 10	17	a 13	a,c 17	24	a 21
San Andreas Landing	14	a 11	9	10	a 12	a 11	12	a 13
Opposite Central Landing	10	a 10	9	6	a 16	a 9	a,d 10	
Dutch Slough	44	a 33	28	29	a 24	a 23	a 23	a 28
E.C.C.I.D.	91	80	63	52	a,c 45	a 42	30	a 43
Clifton Court Ferry	a 68	54	47	43		32	29	a 34
Mossdale Bridge	155	190	200	188	a 196	201	199	a 119
Vernalia (g)	159	f 177	198	187				
	May 1959							
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole		a 12800		13600		a 13800		
Crockett	e 11300	10400	e 10300	e 9850	a 9850	a 11700		
Benicia	e 9470	8980	9030	6240	e 8390	10700	10600	10000
Martinez		a 4500	a,b 4110	6780		a 5070	a 5460	a 5850
West Suisun	e 6730	5000		5120	e 7320	7360	7510	
Innisfail Ferry		1700	2050	1900	e,d 1680	*a,b 1980	a 2390	*a 2150
Port Chicago	5510		5850			8290	7070	7190
Spoonbill Creek	1360	805	829	1260	780	1080	1860	1450
Pittsburg		a 296	780		a 305	a 927	1830	b 1260
			Sacramento River Delta					
Collinsville	426	a 236	a 237	410	a 288	a 522	985	a 784
Emmaton	a 34	a 25	a 50	70	a 31	148	282	a 79
Threemile Slough Bridge	18	22	15	15	17	18	30	
Rio Vista Bridge	12	12	16	13	e 12	14	15	b 14
Isleton Bridge	12	13	14		13	13	19	18
			San Joaquin River Delta					
Antioch	a 219	a 129	a 197	254	a 141	a 220	649	a 282
Antioch Bridge	a 48	51	212	98	a 68	a 102	a 190	b 141
Jersey Island	a 39			a 50			87	
Threemile Slough		a 15		18	a 18	a 20	31	
Oulton Point	a 19	a 26	19	23	a 16	24	34	a 24
San Andreas Landing	a 14	a 15	16	16	14	a 16	20	a 17
Opposite Central Landing	a 12	a 12	14	14	a 13	a 15	14	a 14
Dutch Slough	a,d 30	d 32	30	31	a 29	30	35	a 35
E.C.C.I.D.	a 45	34	30	52	a 40	26	33	a 30
Clifton Court Ferry		32	32	26	27	26	29	
Mossdale Bridge	121	154	190	179	198	170	163	a 178
Vernalia (g)	128	c 193		b 193	b 200	b 193		

* Presumed.
a Taken after Low High Tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.

TABLE 227

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

In parts of chloride per million parts of water

Samples taken at four-day intervals approximately one and one-half hours after high high tide.

Station	June 1959							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole					a 14400	a,e 15300	a 15800	a 16500
Crockett		e 12600	e 11900	13700		e 14400	14600	14600
Benicia	6220	11200	10400	10700	a 9150	13900	10800	12600
Martinez	a 5960	a 6380	a 6030	a 8190	a 7870	a 8540	9290	a 9210
West Suisun	8840	a 7840	8000	9660	b 11900	11700		
Innisfail Ferry	b 2610	2760	d 2930	3600	4430			
Port Chicago			7380	6720		10700		
Spoonbill Creek	1910	1950	2230	2850	3090	4620	5220	b 4560
Pittsburg		a 1620	2360	a 591	a 2440		a 5110	
			Sacramento River Delta					
Collinsville	a 794	a 1270		a 1700		3770	a 3640	a 3100
Emmaton	a 97	a 242	*b 289	412	a 2400	1630	a 1780	a 977
Threemile Slough Bridge	31	43		b 71	290	623	519	a 299
Rio Vista Bridge	15	12	15	b 19	34	116	b 42	a 16
Isleton Bridge	15	17	15	b 15	14	20	b 18	a 11
			San Joaquin River Delta					
Antioch	a 315	a 557	1010	a 529	a 197	2150	a 2440	a 1880
Antioch Bridge	a 122	a 192	a 276	b 260		a 1180	a 1110	a 890
Jersey Island	a,d 56				240	1180	a 719	1220
Threemile Slough	a,d 36		60	a 62	a 131	a 225	a 364	
Oulton Point	a 28	50	58	a 55		330	a 166	a 232
San Andreaa Landing	a 16	a 18	25	a 19	a 30	a 49	a 52	74
Opposite Central Landing	a 13	a 15	19	a 17	a 16	46	a 24	a 16
Dutch Slough			63	69	a 102	163	a 450	a 314
E.C.C.I.D.	27	a 28	28	b 29	43	43	a 55	a 68
Clifton Court Ferry	28		30		32	33	a 42	55
Mossdale Bridge		186	198	a 206	d 193	230	a 229	a 242
Vernalis (g)	b 167	194	c 196	c 190	b 234		250	

Station	July 1959							
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole				a 16700		a 16300		a 17200
Crockett		a,c 10700						
Benicia	12900	13500	12300	12200	14000	19200	13200	14200
Martinez	a 9240	a 8630	a 9410	a 10200	a 10100	a 10100	a 10000	a 9980
West Suisun		c 11700			13200	12000		11600
Innisfail Ferry	5770	6280	a 6390	6480	9640		b 7440	
Port Chicago	10700	11000				15640		
Spoonbill Creek	4720	4080	4740	5580		6270	5800	5570
Pittsburg			4830			5010	a 4380	
			Sacramento River Delta					
Collinsville	a 3470	a 3900	3630	a 3900	a 4900	5430	a 4240	a 3670
Emmaton	a 1260	a 1600	1900	a 1510	a 2010	b 2600	a 1640	1030
Threemile Slough Bridge	552	501		1070	1480	1280	711	633
Rio Vista Bridge	81	31	54	219	24	209	33	14
Isleton Bridge	9	14	11	12	19	11	b 12	8
			San Joaquin River Delta					
Antioch	a 2170	a 2680	2770	2640	a 2950	5632	3410	3220
Antioch Bridge	a 1700	a 1940	a 1990	a 1840	1860		2570	a 2240
Jersey Island								
Threemile Slough	a 406	a 446	a 339	a 498	a 657	1900	f 622	a 502
Oulton Point	a 287	10	512	a 495	a 567	114	a 438	a 286
San Andreas Landing	a 81	a 102	a 22	a 157	a 188	248	a 145	a 120
Opposite Central Landing	a 16	a 16	18	a 20	a 23	35		a 13
Dutch Slough	a 414	a 509	517	a 600	d 867	a 1044	a 87	a 908
E.C.C.I.D.	a,b 99	114	138	174	208	253	323	351
Clifton Court Ferry			113					
Mossdale Bridge	207	220	224	a 238	244	239	a 236	192
Vernalis (g)			236			e 264		297

* Presumed.
a Taken after Low High Tide
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.

TABLE 227

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

In parts of chloride per million parts of water

Samples taken at four-day intervals approximately one and one-half hours after high high tide.

Station	August 1959							
	2	6	10	14	18	22	26	30
	San Francisco, San Pablo, and Suisun Bays							
Point Pinole		a 15900		a 15300				
Crockett			13500	15000	14100	11700	13200	
Benicia	12900	13200	12200	12000	12800	10200	10900	e 12100
Martinez	a 8650	a 9920	a 7870	a 9130	a 9120	7860	a 8050	a 8140
West Suisun	10900		11200	b 12900			9900	a 7480
Innisfail Ferry			6810	a 6910	6580	d 6300	d 5820	5950
Port Chicago	e 10300	9710	9130	b 10800	10300			
Spoonbill Creek	5360	d 4400	4380	b 3910	3830	3410	4000	3520
Pittsburg			a 2790	a 3330	a 3090			
	Sacramento River Delta							
Collinsville	a 3580	a 2960		a,d 2170	a 2610		a 2160	a 1710
Emmaton	a,b 920	1140	1180	a 498	a 1140	663	545	a 286
Threemile Slough Bridge	877	279	263	b 337	250	176	186	121
Rio Vista Bridge	14	16	13	b 23	13	10	b 13	14
Isleton Bridge	9	8	10	b 12	10	11	b 16	13
	San Joaquin River Delta							
Antioch	a 2310	2130	2160	a 1580	1930	1620	a 1020	a 1000
Antioch Bridge	a 1560	a 994	a 1100	d 754	a 661	a 523	d 800	a 474
Jersey Island	a 848	b 1060		a 467				
Threemile Slough	a,d 528	a 267	a 298		a 202	130	a,d 151	
Oulton Point	a 23	417	a 269	a 209	a 221	a 165	a 126	a 112
San Andreas Landing	a 109	116	a 87	a 70	a 56	a 46	a,d 40	a 29
Opposite Central Landing	a 34	13	a 13	a 14	a 15	a 14	a 14	a 12
Dutch Slough	a 836	788	a 596	a 464	a 468	a 363	e 313	a 269
E.C.C.I.D.	342	356	327		231	a 221	a 203	195
Clifton Court Ferry		211	a,d 192		146			
Mossdale Bridge	174	214	a 261	a 223	257	a 218	a 185	200
Vernalis (g)		261	b 229	289	234	e 235	e 196	
	September 1959							
	San Francisco, San Pablo, and Suisun Bays							
Point Pinole			a 15500			a,d 13700		
Crockett	13300	b 13200	13200	12900	12800		10500	11600
Benicia		10400	11700	11100	9370	9230	9110	8140
Martinez		8760	a 7570	a 7050	8580	a 5470	a 5130	
West Suisun	8830			8520	7090	6410		6540
Innisfail Ferry	a 5810	5480		d 5950	4820	a,b 5000	c,d 4090	3530
Port Chicago	9320	7760	8190	8140	7870	d 6310	a 6090	
Spoonbill Creek	3130	3150	3220	2780	2400	1650	1250	1200
Pittsburg	a 1900	2500	a 1880	a 2120	a 1580	a 911	a 494	988
	Sacramento River Delta							
Collinsville	a 2200	2260		a 1570	a 1060	716	a 324	659
Emmaton	a 649	595	305	205	a,b 202	97	a 40	87
Threemile Slough Bridge	117	100	116	55	44	25	b 24	19
Rio Vista Bridge	14	14	17	16	15	d 17	b 17	14
Isleton Bridge	16	16	15	15	17	15	b 19	12
	San Joaquin River Delta							
Antioch	1220	1080	a 893	a 821		845	a 153	176
Antioch Bridge	a 793			a 357	a 549	a 505	a 106	73
Jersey Island								
Threemile Slough		69	a 106	a 52	a 59	a 30	a 28	29
Oulton Point	a 124	64	a 79	a 59	70	a 35	a 32	32
San Andreas Landing	a 45	a 47	a 38	a 36	26	a 32	a 28	23
Opposite Central Landing	a 16			20		a 19	a 15	13
Dutch Slough	261	a 200	a 176	a 152	128	107	d 98	78
E.C.C.I.D.	180		a 148	136	126	a 107	a 103	139
Clifton Court Ferry				94		110		a 80
Mossdale Bridge	185	a 231	a 205	224	205	a 107	a 134	a 172
Vernalis (g)	c 240			b,d 219		a 107	d,e 125	d,e 165

* Presumed.
a Taken after Low High Tide.
b Taken on following day.
c Taken two days later.
d Taken over one hour off scheduled time.
e Taken on preceding day.
f Taken two days earlier.
g Station located above tidal action.

TABLE 228

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT KESWICK

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	11.8	11.6	8.3	14.6	11.1	7.8	11.7	11.7	17	11.5	10.4	13.6	14.0	8.5	11.4	11.7	12.8
2	11.6	11.5	8.3	13.5	11.1	7.8	11.7	11.7	18	11.5	10.4	13.8	13.8	8.5	11.7	11.7	12.8
3	11.6	11.4	8.3	13.2	10.3	7.8	11.7	11.7	19	11.5	10.4	13.8	15.9	8.9	11.7	11.7	12.8
4	11.6	11.3	8.3	12.6	10.3	7.7	11.7	12.0	20	11.5	10.0	13.8	21.8	9.1	11.7	11.7	12.8
5	11.5	10.6	9.4	12.6	9.5	7.7	11.7	12.1	21	11.5	10.0	13.8	21.8	9.1	12.0	11.7	12.8
6	11.5	11.2	8.9	11.8	9.5	7.8	11.7	12.4	22	11.5	9.6	13.8	21.7	9.2	12.3	11.7	13.0
7	11.6	11.2	8.8	11.8	9.5	8.0	11.7	12.4	23	11.5	9.6	13.8	21.7	9.2	12.4	11.7	13.1
8	11.5	11.2	9.7	11.8	9.4	7.9	11.7	12.4	24	11.5	9.0	13.9	20.1	9.1	12.4	11.7	13.2
9	11.6	10.8	12.0	11.8	9.4	8.4	11.7	12.4	25	11.5	9.0	13.8	17.4	9.2	12.4	11.7	13.4
10	11.5	10.8	12.4	11.9	9.4	8.9	11.7	12.4	26	11.5	8.4	13.8	13.6	9.1	12.4	11.7	13.4
11	11.5	10.4	10.6	11.8	8.2	9.3	11.7	12.4	27	11.5	8.3	15.9	12.4	9.1	12.2	11.7	13.6
12	11.5	10.4	12.7	11.8	8.2	9.3	11.7	12.4	28	11.6	8.3	21.5	11.7	8.8	11.8	11.7	13.7
13	11.5	10.4	14.1	11.8	8.2	9.3	11.7	12.8	29	11.6	8.3	21.4		8.8	11.7	11.7	13.7
14	11.5	10.4	13.9	12.3	8.2	9.2	11.7	12.8	30	11.6	8.3	20.4		9.1	11.7	11.7	13.7
15	11.5	10.4	13.8	13.4	8.0	10.2	11.7	12.8	31		8.3	17.9		8.5		11.7	
16	11.5	10.4	13.7	14.0	8.1	10.8	11.7	12.8									

Crest Stages:					
	Date	1- 9-59	1-12-59	1-28-59	2-20-59
	Time	2:00 PM	2:00 PM	5:00 AM	3:00 AM
	Stage	13.5	15.1	22.0	22.1

E-Estimated NR-No Record

TABLE 229

DAILY MEAN GAGE HEIGHT
CLEAR CREEK NEAR IGO

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.5	2.6	2.6	3.6	NR	4.0	3.2	2.8	17	2.6	2.5	3.9	6.9	NR	3.4	3.0	2.6
2	2.5	2.6	2.6	3.6	NR	4.0	3.2	2.8	18	2.6	2.6	3.8	6.6	NR	3.4	3.0	2.6E
3	2.5	2.6	2.6	3.5	NR	3.9	3.2	2.8	19	2.6	2.6	3.7	6.0	3.6	3.4	3.0	2.6E
4	2.5	2.6	2.6	3.4	NR	3.9	3.2	2.8	20	2.6	2.6	3.6	5.6	3.6	3.3	3.0	2.6E
5	2.5	2.6	3.4	3.4	NR	3.8	3.2	2.8	21	2.6	2.7	3.5	5.4	3.6	3.3	2.9	2.6E
6	2.5	2.6	3.8	3.4	NR	3.8	3.1	2.8	22	2.6	2.6	3.4	5.1	3.8	3.3	2.9	2.5E
7	2.5	2.6	4.6	3.3	NR	3.7	3.1	2.7	23	2.6	2.6	3.4	4.9	4.0	3.3	3.0	2.5E
8	2.5	2.6	6.6	3.3	NR	3.6	3.1	2.7	24	2.6	2.6	3.5	4.6	3.7	3.3	3.0	2.5E
9	2.5	2.6	7.2	3.3	NR	3.6	3.1	2.7	25	2.6	2.8	3.6	4.5	3.6	3.4	2.9	2.5E
10	2.6	2.6	7.1	3.4	NR	3.6	3.1	2.7	26	2.6	2.9	3.6	4.4	3.7	3.5	2.9	2.5E
11	2.6	2.6	6.4	3.4	NR	3.5	3.0	2.7	27	2.6	3.1	3.8	4.4	3.6	3.3	2.9	2.5E
12	2.6	2.6	7.0	3.3	NR	3.5	3.0	2.7	28	2.6	2.8	4.2	NR	3.6	3.3	2.9	2.5
13	2.6	2.6	5.7	3.3	NR	3.5	3.0	2.6	29	2.6	2.7	4.0		3.6	3.3	2.9	2.5
14	2.6	2.6	4.9	5.0	NR	3.5	3.0	2.6	30	2.6	2.7	3.7		4.8	3.2	2.8	2.5
15	2.6	2.5	4.4	5.9	NR	3.4	3.0	2.6E	31		2.6	3.7		4.3		2.8	
16	2.6	2.5	4.1	7.9	NR	3.4	3.0	2.6E									

Crest Stages:								
	Date	12-26-58	1- 9-59	1-12-59	2-14-59	2-16-59	3-22-59	3-30-59
	Time	9:30 PM	11:30 PM	6:30 AM	9:30 PM	10:00 AM	10:00 PM	8:00 AM
	Stage	3.6	8.0	7.9	6.8	9.6	5.4	5.1

E-Estimated NR-No Record

TABLE 230

DAILY MEAN GAGE HEIGHT
COTTONWOOD CREEK NEAR COTTONWOOD

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	3.1	3.1	3.3	4.0	4.9	4.4	3.8	3.5	17	3.2	3.0	4.4	7.3	4.2	3.9	3.7	3.4
2	3.1	3.1	3.2	3.9	5.0	4.4	3.8	3.5	18	3.2	3.0	4.1	6.6	4.2	3.8	3.7	3.3
3	3.1	3.1	3.2	3.8	5.1	4.4	3.8	3.5	19	3.2	3.0	3.9	6.3	4.2	3.8	NR	3.3
4	3.1	3.1	3.2	3.7	5.0	4.4	3.8	3.5	20	3.2	3.0	3.8	5.9	4.2	3.8	NR	3.3
5	3.1	3.1	3.8	3.7	4.9	4.4	3.8	3.5	21	3.3	3.1	3.8	6.1	4.1	3.8	NR	3.3
6	3.1	3.1	4.5	3.6	4.8	4.4	3.8	3.5	22	3.3	3.1	3.7	5.7	4.1	3.8	NR	3.3
7	3.1	3.1	4.0	3.6	4.8	4.3	3.8	3.5	23	3.2	3.2	3.6	5.3	4.4	3.8	NR	3.3
8	3.0	3.1	4.9	3.6	4.7	4.2	3.7	3.5	24	3.2	3.1	3.6	5.1	4.2	3.8	3.6	3.2
9	3.1	3.1	7.0	3.5	4.6	4.1	3.7	3.4	25	3.2	3.1	4.4	5.0	4.2	3.8	3.6	3.2
10	3.1	3.1	6.1	3.6	4.6	4.0	3.7	3.4	26	3.2	3.2	4.5	4.9	4.2	4.0	3.6	3.2
11	3.2	3.1	5.6	3.6	4.5	4.0	3.7	3.4	27	3.2	3.4	4.3	4.9	4.2	4.0	3.6	3.2
12	3.2	3.1	7.2	3.5	4.4	4.0	3.7	3.4	28	3.2	3.6	4.7	4.9	4.2	3.9	3.6	3.2
13	3.2	3.1	6.3	3.5	4.4	4.0	3.7	3.4	29	3.2	3.4	4.5		4.1	3.8	3.6	3.2
14	3.2	3.1	5.2	3.7	4.4	4.0	3.7	3.4	30	3.1	3.3	4.3		4.6	3.8	3.6	3.2
15	3.2	3.0	4.8	5.7	4.3	3.9	3.7	3.3	31		3.3	4.1		4.6		3.6	
16	3.2	3.0	4.6	10.0	4.3	3.9	NR	3.4									

Crest Stages:							
	Date	12-27-58	1- 5-59	1- 9-59	1-12-59	1-25-59	2-16-59
	Time	9:30 PM	12:00 Mid.	8:30 AM	3:30 PM	6:30 PM	11:00 AM
	Stage	3.8	5.1	7.6	8.5	5.0	11.4

E-Estimated NR-No Record

TABLE 231

DAILY MEAN GAGE HEIGHT
BATTLE CREEK NEAR COTTONWOOD

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	2.9	2.9	2.9	3.0	3.3	3.1	3.2	2.8	17	2.9	2.8	3.1	4.8	3.2	3.0	3.0	2.7
2	2.9	2.9	2.9	3.0	3.3	3.1	3.1	2.8	18	2.9	2.8	3.0	4.3	3.2	3.0	3.0	2.7
3	2.9	2.9	2.9	3.0	3.3	3.1	3.0	2.8	19	2.9	2.8	3.0	4.5	3.1	3.0	3.0	2.7
4	2.9	2.9	2.8	3.0	3.2	3.2	3.0	2.9	20	2.9	2.8	3.0	4.5	3.1	3.0	2.9	2.7
5	2.8	2.9	3.4	3.0	3.2	3.2	3.0	2.8	21	2.9	3.0	3.0	4.7	3.1	3.0	2.9	2.8
6	2.8	2.8	3.5	3.0	3.2	3.2	3.0	2.9	22	2.9	3.0	3.0	4.0	3.1	3.0	2.9	2.8
7	2.8	2.8	3.2	3.0	3.2	3.1	2.9	2.9	23	2.9	2.9	2.9	3.6	3.2	3.0	2.9	2.8
8	2.8	2.8	3.4	3.0	3.2	3.1	3.0	2.8	24	2.9	2.9	3.0	3.5	3.2	3.0	2.9	2.8
9	2.8	2.8	4.2	2.9	3.2	3.1	3.0	2.8	25	2.9	2.9	3.8	3.4	3.1	3.1	2.9	2.7
10	3.0	2.9	3.6	2.9	3.2	3.1	3.0	2.8	26	2.9	3.0	3.5	3.3	3.2	3.3	2.9	2.7
11	2.9	2.9	3.4	3.0	3.1	3.1	3.0	2.8	27	2.9	3.2	3.3	3.3	3.1	3.2	3.0	2.7
12	2.9	2.8	5.5	3.0	3.2	3.1	3.0	2.8	28	2.9	3.0	3.7	3.2	3.1	3.1	2.9	2.7
13	2.9	2.9	4.2	3.0	3.2	3.1	3.0	2.8	29	2.9	2.9	3.3		3.1	3.1	2.9	2.7
14	3.1	2.9	3.5	3.0	3.2	3.1	3.1	2.8	30	2.9	2.9	3.2		3.1	3.1	2.9	2.7
15	3.0	2.9	3.3	3.4	3.1	3.1	3.1	2.8	31		2.9	3.1		3.2		2.9	
16	2.9	2.8	3.2	7.0	3.2	3.1	3.0	2.7									

Crest Stages:								
	Date	11-14-58	12-27-58	1- 5-59	1- 9-59	1-12-59	1-25-59	2-16-59	2-20-59
	Time	12:00 Noon	4:30 AM	4:30 PM	1:30 AM	12:30 PM	9:00 AM	8:30 AM	7:30 PM
	Stage	3.4	3.6	4.0	4.4	7.2	5.0	10.9	5.7

E-Estimated NR-No Record

TABLE 232

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER NEAR RED BLUFF

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	2.9	2.7	1.5	5.7	3.8	2.0	2.9	2.6	17	2.7	2.3	4.5	9.9	2.0	2.6	2.8	3.1
2	2.8	2.7	1.5	4.5	3.8	1.8	2.9	2.6	18	2.7	2.3	4.5	7.8	2.0	2.8	2.8	3.1
3	2.7	2.7	1.5	4.2	3.6	1.7	2.9	2.6	19	2.7	2.3	4.4	7.9	2.0	2.8	2.8	3.1
4	2.7	2.7	1.5	4.0	3.4	1.7	2.8	2.7	20	2.7	2.2	4.3	9.9	2.0	2.8	2.8	3.1
5	2.7	2.6	2.7	3.8	3.1	1.6	2.8	2.8	21	2.7	2.2	4.3	12.0	2.0	2.9	2.7	3.1
6	2.7	2.6	4.3	3.6	2.9	1.5	2.8	2.9	22	2.7	2.1	4.2	10.6	2.0	3.1	2.7	3.1
7	2.7	2.7	3.0	3.3	2.8	1.3	2.8	3.0	23	2.7	2.0	4.2	10.1	2.2	3.1	2.8	3.2
8	2.7	2.7	4.5	3.3	2.8	1.3	2.8	3.0	24	2.7	1.9	4.3	9.3	2.2	3.2	2.8	3.3
9	2.7	2.6	7.8	3.3	2.7	1.4	2.8	3.0	25	2.7	1.8	5.6	7.4	2.0	3.2	2.7	3.4
10	2.8	2.5	7.2	3.4	2.6	1.5	2.8	3.0	26	2.7	1.8	5.2	5.8	2.1	3.4	2.7	3.4
11	2.7	2.4	5.1	3.6	2.4	1.7	2.8	3.0	27	2.7	2.2	4.9	4.6	2.1	3.4	2.7	3.4
12	2.7	2.3	8.1	3.5	2.1	1.7	2.8	3.0	28	2.7	1.8	9.1	4.2	2.0	3.1	2.7	3.6
13	2.7	2.3	8.2	3.4	2.1	1.7	2.8	3.1	29	2.7	1.6	9.3		1.9	2.9	2.7	3.6
14	2.8	2.3	5.8	3.5	2.1	1.7	2.8	3.1	30	2.7	1.6	9.0		2.4	2.9	2.7	3.6
15	2.8	2.3	5.1	5.9	2.0	1.9	2.8	3.1	31		1.5	7.3		2.6		2.7	
16	2.7	2.3	4.8	15.2	2.0	2.3	2.8	3.1									

Crest Stages:						
	Date	1- 9-59	1-12-59	1-28-59	2-16-59	2-21-59
	Time	12:00 Noon	10:00 PM	2:00 PM	5:00 PM	6:00 AM
	Stage	9.0	11.7	10.1	19.4	12.6

E-Estimated NR-No Record

TABLE 233

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT RED BLUFF

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	5.6	5.4	3.9	9.0	6.8	4.7	5.8	5.4	17	5.4	5.0	7.6	14.0	4.6	5.3	5.6	6.0
2	5.5	5.4	3.9	7.6	6.8	4.4	5.8	5.4	18	5.4	4.9	7.6	11.5	4.6	5.5	5.6	6.0
3	5.4	5.4	3.9	7.2	6.6	4.3	5.7	5.4	19	5.4	4.9	7.5	11.6	4.6	5.6	5.5	6.0
4	5.4	5.4	3.9	6.9	6.3	4.2	5.7	5.5	20	5.4	4.9	7.4	13.5	4.6	5.6	5.5	6.0
5	5.4	5.3	5.4	6.7	6.0	4.2	5.6	5.6	21	5.5	4.8	7.4	15.6	4.6	5.7	5.5	5.9
6	5.4	5.2	7.5	6.5	5.7	4.0	5.6	5.7	22	5.4	4.7	7.4	14.2	4.6	5.9	5.5	6.0
7	5.4	5.4	6.0	6.2	5.7	3.8	5.6	5.8	23	5.4	4.6	7.3	13.7	4.9	6.0	5.5	6.1
8	5.4	5.4	7.5	6.2	5.6	3.8	5.6	5.8	24	5.4	4.4	7.4	13.1	4.8	6.0	5.6	6.1
9	5.4	5.3	11.4	6.2	5.5	3.8	5.6	5.8	25	5.4	4.3	8.9	11.0	4.7	6.1	5.5	6.3
10	5.5	5.2	11.0	6.3	5.4	4.0	5.6	5.8	26	5.4	4.3	8.7	9.2	4.7	6.3	5.5	6.3
11	5.4	5.1	8.4	6.6	5.1	4.2	5.6	5.8	27	5.4	4.7	8.1	7.7	4.8	6.3	5.5	6.3
12	5.4	5.0	11.7	6.5	4.8	4.3	5.6	5.8	28	5.4	4.3	12.6	7.2	4.6	6.0	5.5	6.5
13	5.4	4.9	11.8	6.4	4.7	4.2	5.5	5.9	29	5.4	4.1	12.9		4.5	5.8	5.5	6.5
14	5.5	4.9	9.1	6.5	4.7	4.3	5.6	6.0	30	5.4	4.0	12.6		5.0	5.8	5.4	6.5
15	5.5	4.9	8.4	9.3	4.6	4.5	5.6	6.0	31		4.0	11.0		5.4		5.4	
16	5.4	5.0	8.0	18.5	4.6	4.9	5.6	5.9									

Crest Stages:								
	Date	1- 9-59	1-12-59	1-28-59	1-29-59	1-30-59	2-16-59	2-19-59	2-21-59
	Time	1:30 PM	10:30 PM	3:00 PM	2:30 PM	12:30 PM	6:00 PM	6:00 AM	6:00 AM
	Stage	12.7	15.3	13.7	12.9	12.7	21.8	12.7	16.2

E-Estimated NR-No Record

TABLE 234

DAILY MEAN GAGE HEIGHT
ANTELOPE CREEK NEAR RED BLUFF

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	3.2	3.2	3.3	3.6	3.9	3.5	3.5	3.2	17	3.3	3.2	3.7	7.2	3.5	3.5	3.3	3.1
2	3.2	3.2	3.3	3.6	3.9	3.5	3.5	3.2	18	3.2	3.2	3.6	6.0	3.5	3.5	3.3	3.1
3	3.2	3.2	3.2	3.5	3.8	3.5	3.5	3.2	19	3.3	3.2	3.5	5.5	3.5	3.4	3.3	3.1
4	3.2	3.2	3.2	3.5	3.8	3.6	3.4	3.2	20	3.2	3.2	3.5	5.5	3.5	3.4	3.2	3.1
5	3.2	3.2	4.5	3.5	3.8	3.6	3.4	3.2	21	3.3	3.4	3.4	6.1	3.5	3.4	3.2	3.0
6	3.2	3.2	4.6	3.4	3.7	3.6	3.4	3.2	22	3.3	3.3	3.4	5.2	3.5	3.4	3.2	3.0
7	3.2	3.2	4.0	3.4	3.7	3.6	3.4	3.2	23	3.2	3.3	3.4	4.8	3.5	3.4	3.2	3.0
8	3.2	3.2	5.1	3.4	3.7	3.6	3.4	3.1	24	3.2	3.3	3.4	4.4	3.5	3.4	3.2	3.0
9	3.3	3.2	5.9	3.4	3.6	3.5	3.3	3.1	25	3.2	3.3	4.0	4.2	3.5	3.4	3.2	3.0
10	3.4	3.2	4.4	3.5	3.6	3.5	3.3	3.1	26	3.2	3.4	3.9	4.1	3.5	3.6	3.2	3.1
11	3.3	3.2	4.1	3.7	3.6	3.5	3.3	3.1	27	3.2	3.8	3.7	4.0	3.5	3.6	3.2	3.1
12	3.3	3.2	6.7	3.6	3.6	3.5	3.3	3.1	28	3.2	3.4	4.1	3.9	3.5	3.5	3.2	3.1
13	3.3	3.2	5.5	3.5	3.6	3.5	3.3	3.1	29	3.2	3.3	4.0		3.5	3.5	3.2	3.0
14	3.4	3.2	4.4	3.8	3.6	3.5	3.3	3.1	30	3.2	3.3	3.8		3.5	3.5	3.2	3.0
15	3.3	3.2	4.0	5.3	3.5	3.5	3.3	3.1	31		3.3	3.7		3.6		3.2	
16	3.3	3.2	3.8	8.8	3.5	3.5	3.3	3.1									

Crest Stages:								
Date	12-27-58	1- 5-59	1- 8-59	1-12-59	1-25-59	2-16-59	2-17-59	2-21-59
Time	2:00 AM	8:30 PM	10:15 PM	8:00 AM	3:00 PM	8:00 AM	3:00 PM	4:45 AM
Stage	4.2	5.8	6.8	9.5	4.4	11.3	9.2	6.9

E-Estimated NR-No Record

TABLE 235

DAILY MEAN GAGE HEIGHT
MILL CREEK NEAR LOS MOLINOS

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	1.5	1.5	1.5	1.9	2.2	2.1	2.3	1.9	17	NR	1.5	2.1	5.7	2.0	2.1	2.0	1.8
2	1.5	1.5	1.5	1.8	2.3	2.2	2.2	1.9	18	NR	1.5	2.0	4.5	2.0	2.1	2.0	1.8
3	1.5	1.5	1.5	1.8	2.3	2.3	2.1	1.9	19	NR	1.5	1.9	3.6	2.0	2.1	2.0	1.8
4	1.5	1.5	1.5	1.8	2.2	2.3	2.0	1.9	20	1.6	1.5	1.8	3.6	2.0	2.1	1.9	1.8
5	1.5	1.5	2.7	1.8	2.2	2.4	2.0	1.9	21	1.6	1.7	1.8	4.1	2.0	2.1	2.0	1.8
6	1.5	1.5	2.6	1.7	2.2	2.4	2.0	2.0	22	1.6	1.6	1.8	3.2	2.0	2.1	2.0	1.8
7	1.5	1.5	2.2	1.7	2.2	2.3	2.0	1.9	23	1.5	1.5	1.7	2.8	2.0	2.1	1.9	1.7
8	1.5	1.5	3.2	1.7	2.1	2.2	2.0	1.9	24	1.5	1.5	1.8	2.5	2.0	2.2	1.9	1.7
9	1.5	1.5	4.4	1.7	2.1	2.2	2.1	1.9	25	1.5	1.6	2.2	2.3	1.9	2.3	1.9	1.7
10	1.6	1.5	3.0	1.9	2.0	2.2	2.1	1.8	26	1.5	1.7	2.1	2.2	2.0	2.6	2.0	1.7
11	1.5	1.5	2.9	1.9	2.0	2.2	2.2	1.8	27	1.5	2.1	2.0	2.2	2.0	2.3	2.0	1.7
12	1.5	1.5	6.3	1.8	2.0	2.2	2.2	1.8	28	1.5	1.7	2.5	2.2	2.0	2.2	1.9	1.6
13	1.5	1.5	4.9	1.8	2.1	2.2	2.3	1.8	29	1.5	1.6	2.2		2.0	2.2	1.9	1.6
14	1.8	1.5	3.1	2.1	2.0	2.2	2.2	1.8	30	1.5	1.5	2.1		2.1	2.2	1.9	1.6
15	1.6	1.5	2.6	3.1	2.0	2.2	2.2	1.8	31		1.5	2.0		2.1		1.9	
16	NR	1.5	2.3	6.6	2.0	2.1	2.1	1.8									

Crest Stages:								
Date	12-26-58	1- 5-59	1- 9-59	1-12-59	2-14-59	2-16-59	2-17-59	2-21-59
Time	12:00 Mid.	6:00 PM	8:00 AM	8:00 AM	12:00 Mid.	10:00 AM	3:00 PM	5:00 AM
Stage	2.5	4.0	5.6	8.4	4.0	8.6	7.7	4.8

E-Estimated NR-No Record

TABLE 236

DAILY MEAN GAGE HEIGHT
THOMES CREEK AT PASKENTA

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	a 1.0	a 1.2	b 1.6	2.3	3.1	2.8	2.1	a 1.5	17	a 1.2	a 1.1	2.5	3.2	2.6	2.2	1.8	a 1.2
2	a 1.0	a 1.1	b 1.6	2.2	3.2	2.8	2.0	a 1.5	18	a 1.1	a 1.1	2.4	2.9	2.6	2.2	1.7	a 1.2
3	a 1.0	a 1.1	b 1.5	2.1	3.3	2.8	2.0	a 1.5	19	1.9	a 1.1	2.3	2.8	2.5	2.2	1.7	a 1.2
4	a 1.0	a 1.1	a 1.5	2.0	3.1	2.9	1.9	a 1.5	20	1.7	a 1.1	2.2	2.7	2.4	2.2	1.7	a 1.2
5	a 1.0	a 1.1	2.1	2.0	3.0	2.9	1.9	a 1.5	21	1.5	a 1.1	2.1	2.6	2.4	2.2	1.6	a 1.2
6	a 1.0	a 1.1	1.8	2.0	3.1	2.8	1.8	a 1.5	22	a 1.4	a 1.4	2.0	2.4	2.4	2.2	1.6	a 1.2
7	a 1.0	a 1.1	1.8	1.9	3.0	2.6	1.8	a 1.4	23	a 1.3	a 1.3	1.9	2.3	2.4	2.2	1.7	a 1.1
8	a 1.0	a 1.1	2.7	1.9	2.9	2.6	1.9	a 1.4	24	a 1.3	a 1.2	2.4	2.2	2.4	2.2	1.7	a 1.1
9	a 1.0	a 1.1	4.1	1.9	2.8	2.5	NR	a 1.4	25	a 1.2	a 1.2	2.8	2.3	2.3	2.3	1.6	a 1.1
10	a 1.1	a 1.1	3.8	1.9	2.7	2.4	NR	a 1.3	26	a 1.2	a 1.4	2.6	2.4	2.9	2.3	a 1.6	a 1.1
11	a 1.1	a 1.1	3.6	1.9	2.7	2.4	1.9	a 1.3	27	a 1.2	2.3	2.9	2.5	2.6	2.2	a 1.6	a 1.1
12	a 1.1	a 1.1	5.3	1.8	2.8	2.4	1.9	a 1.3	28	a 1.2	1.8	3.2	2.8	2.5	2.1	a 1.6	a 1.1
13	a 1.1	a 1.1	3.7	1.8	2.9	2.4	2.0	a 1.3	29	a 1.2	b 1.6	2.8		2.5	2.1	a 1.6	a 1.0
14	a 1.1	a 1.1	3.0	2.0	2.7	2.4	2.0	a 1.3	30	a 1.2	b 1.6	2.6		2.7	2.1	a 1.5	a 1.0
15	a 1.4	a 1.1	2.7	2.7	2.6	2.3	1.9	a 1.2	31		b 1.7	2.4		2.7		a 1.5	
16	a 1.2	a 1.1	2.6	4.0	2.6	2.2	1.8	a 1.2									

Crest Stages:					
	Date	1- 9-59	1-12-59	1-27-59	2-16-59
	Time	12:30 AM	9:00 AM	8:30 PM	7:00 AM
	Stage	4.6	6.8	3.8	4.5

E-Estimated NR-No Record

a November 1 through January 5, and May 26 through June 30 figures represent one or more daily staff gage readings when water was below intakes.
b Staff readings December 29 to January 4 are doubtful as one showed water above intakes and graph did not show this.

TABLE 237

DAILY MEAN GAGE HEIGHT
DEER CREEK NEAR VINA

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	2.6	2.6	2.6	2.9	3.5	3.3	3.0	2.7	17	2.6	2.6	3.2	6.7	3.2	3.0	2.8	2.6
2	2.6	2.6	2.6	2.9	3.6	3.4	3.0	2.6	18	2.6	2.6	3.1	5.9	3.2	3.0	2.8	2.6
3	2.6	2.6	2.6	2.9	3.6	3.4	3.0	2.6	19	2.7	2 6	3.0	5.0	3.2	3.0	2.8	2.5
4	2.6	2.6	2.6	2.8	3.6	3.4	3.0	2.6	20	2.7	2.6	2.9	4.9	3.1	3.0	2.7	2.5
5	2.6	2.6	3.7	2.8	3.5	3.4	2.9	2.6	21	2.7	2.8	2.9	4.9	3.1	2.9	2.7	2.5
6	2.6	2.6	4.0	2.8	3.5	3.4	2.9	2.6	22	2.6	2.7	2.8	4.4	3.1	2.9	2.7	2.5
7	2.6	2.6	3.7	2.8	3.4	3.4	2.9	2.6	23	2.6	2.7	2.8	4.0	3.2	2.9	2.8	2.5
8	2.6	2.6	4.8	2.8	3.4	3.3	2.8	2.6	24	2.6	2.6	2.9	3.8	3.2	2.9	2.8	2.5
9	2.6	2.6	5.6	2.8	3.4	3.2	2.8	2.6	25	2.6	2.7	3.1	3.6	3.1	3.0	2.8	2.5
10	2.8	2.6	4.1	3.0	3.3	3.2	2.8	2.6	26	2.6	2.8	3.1	3.6	3.2	3.4	2.7	2.5
11	2.7	2.6	3.9	3.1	3.3	3.2	2.8	2.6	27	2.6	3.2	3.0	3.5	3.2	3.2	2.8	2.6
12	2.6	2.6	6.2	3.0	3.2	3.2	2.8	2.6	28	2.6	2.8	3.3	3.5	3.2	3.1	2.7	2.5
13	2.6	2.6	5.0	2.9	3.3	3.1	2.8	2.6	29	2.6	2.7	3.2		3.2	3.0	2.7	2.5
14	3.1	2.6	3.9	3.6	3.3	3.1	2.8	2.6	30	2.6	2.7	3.1		3.3	3.0	2.7	2.5
15	2.8	2.6	3.5	4.3	3.2	3.1	2.8	2.6	31		2.7	3.0		3.4		2.7	
16	2.7	2.6	3.3	7.8	3.2	3.0	2.8	2.6									

Crest Stages:						
	Date	1- 9-59	1-12-59	2-14-59	2-16-59	2-17-59
	Time	5:00 AM	8:00 AM	9:30 PM	8:00 AM	1:30 PM
	Stage	6.8	8.4	5.4	10.0	8.2

E-Estimated NR-No Record

TABLE 238

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT VINA BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	67.8	67.6	66.5	NR	69.5	67.5	68.0	67.5	17	67.6	67.3	69.9	80.0	67.3	67.5	67.8	67.9
2	67.7	67.6	66.5	NR	69.4	67.2	68.0	67.5	18	67.6	67.3	69.8	75.2	67.3	67.7	67.8	67.9
3	67.6	67.6	66.5	69.5	69.3	67.2	67.9	67.5	19	67.6	67.3	69.7	74.4	67.3	67.9	67.7	67.9
4	67.6	67.7	66.5	69.2	69.0	67.1	67.9	67.5	20	67.7	67.2	NR	74.8	67.2	67.9	67.7	67.9
5	67.6	67.6	67.8	69.0	68.8	67.1	67.8	67.6	21	67.7	67.2	NR	78.2	67.2	67.9	67.7	67.9
6	67.6	67.4	70.5	68.8	68.5	66.9	67.8	67.7	22	67.7	67.2	NR	76.8	67.3	68.0	67.6	67.9
7	67.6	67.6	68.7	68.5	68.4	66.8	67.8	67.8	23	67.6	67.0	NR	75.9	67.4	68.2	67.7	68.0
8	67.6	67.6	69.8	68.4	68.3	66.7	67.7	67.8	24	67.6	67.0	NR	75.4	67.4	68.2	67.7	68.0
9	67.6	67.6	74.4	68.4	68.2	66.6	67.7	67.8	25	67.6	66.8	NR	73.8	67.3	68.3	67.7	68.2
10	67.7	67.5	73.6	68.5	68.1	66.7	67.7	67.8	26	67.6	66.8	NR	72.1	67.3	68.5	67.7	68.2
11	67.7	67.4	71.4	68.8	67.9	66.8	67.8	67.8	27	67.6	67.1	NR	70.4	67.4	68.6	67.7	68.2
12	67.6	67.2	73.9	68.7	67.6	66.9	67.8	67.8	28	67.6	67.0	NR	69.8	67.3	68.3	67.6	68.3
13	67.6	67.2	75.7	68.5	67.5	66.9	67.8	67.8	29	67.6	66.7	NR		67.2	68.0	67.6	68.4
14	67.7	67.2	72.0	68.6	67.5	66.9	67.8	67.9	30	67.6	66.6	NR		67.3	68.0	67.6	68.4
15	67.8	67.2	70.9	71.1	67.4	66.9	67.8	67.9	31		66.6	NR		68.0		67.6	
16	67.7	67.3	70.4	81.0	67.3	67.3	67.8	67.9									

Crest Stages:								
	Date	1- 6-59	1- 9-59	1-13-59	2-16-59	2-19-59	2-21-59	4-27-59	6-28-59
	Time	7:00 AM	4:00 PM	5:00 AM	9:00 PM	12:00 Noon	1:00 PM	5:00 AM	11:00 AM
	Stage	71.2	75.2	77.7	84.6	75.2	78.8	68.6	68.4

E-Estimated NR-No Record

TABLE 239

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT HAMILTON CITY

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	28.8	28.7	27.9	32.6E	30.8E	28.8E	28.6E	28.3E	17	28.7	28.4E	31.0E	41.8E	28.8E	28.0E	28.5E	28.5E
2	28.8	28.7	27.9	31.1E	30.2E	28.4E	28.6E	28.3E	18	28.7	28.4E	30.8E	36.0E	28.7E	28.2E	28.5E	28.5E
3	28.6	28.7	27.8	30.8E	30.2E	28.2E	28.6E	28.3E	19	28.7	28.4E	30.8E	35.4E	28.6E	28.4E	28.4E	28.5E
4	28.6	28.8	27.8	30.8E	30.0E	28.1E	28.5E	28.3E	20	28.7	28.4	30.8E	35 0E	28.6E	28.3E	28.4E	28.5E
5	28.6	28.8	28.5	30.6E	29.8E	28.0E	28.5E	28.3E	21	28.7	28.3	30.8E	38.6E	28.6E	28.4E	28.4E	28.5E
6	28.6	28.5	31.6	30.0E	29.6E	27.8E	28.5E	28.3E	22	28.7	28.4	30.6E	37.0E	28.6E	28.5E	28.4E	28.5E
7	28.6	28.7	30.1	29.8E	29.6E	27.5E	28.5E	28.3E	23	28.7	28.2	30.6E	36.3E	28.8E	28.6E	28.4E	28.5E
8	28.6	28.7	30.3	29.6E	29.6E	27.4E	28.4E	28.3E	24	28.7	28.2	30.7E	35.8E	28.8E	28.6E	28.4E	28.5E
9	28.6	28.7	35.2E	29.6E	29.6E	27.4E	28.5E	28.3E	25	28.7	28.1	31.3E	34.6E	28.6E	28.8E	28.4E	28.5E
10	28.7	28.6	34.5E	29.6E	29.6E	27.4E	28.4E	28.3E	26	28.7	28.1	32.2E	33.0E	28.5E	29.1E	28.4E	28.6E
11	28.8	28.6E	32.6E	29.8E	29.4E	27.5E	28.3E	28.3E	27	28.7	28.2	NR	31.6E	28.4E	29.1E	28.4E	28.8E
12	28.7	28.4E	33.9E	29.7E	29.2E	27.5E	28.3E	28.4E	28	28.7	28.4	NR	31.1E	28.4E	29.0E	28.4E	28.9E
13	28.7	28.4E	36.9E	29.6E	29.0E	27.5E	28.4E	28.4E	29	28.7	28.1	NR		28.2E	28.7E	28.4E	29.0E
14	28.7	28.4E	32.8E	29.6E	28.9E	27.5E	28.4E	28.5E	30	28.7	28.0	34.7E		28.3E	28.6E	28.3E	29.0E
15	28.8	28.4E	31.9E	31.7E	28.9E	27.4E	28.4E	28.5E	31		27.9	34.0E		29.2E		28.3E	
16	28.7	28.4E	31.4E	41.4E	28.9E	27.7E	28.5E	28.5E									

Crest Stages:		
	Date	
	Time	
	Stage	

E-Estimated NR-No Record

TABLE 240

DAILY MEAN GAGE HEIGHT
BIG CHICO CREEK NEAR CHICO

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	2.1	2.2	2.3	2.5	3.2	2.8	2.3	2.2	17	2.2	2.1	2.8	6.9	2.6	2.4	2.2	2.1
2	2.1	2.3	2.3	2.5	3.2	2.7	2.3	2.1	18	2.2	2.1	2.6	6.4	2.6	2.4	2.2	2.1
3	2.1	2.3	2.2	2.4	3.2	2.7	2.3	2.2	19	2.2	2.1	2.6	5.5	2.6	2.3	2.2	2.1
4	2.1	2.4	2.1	2.4	3.2	2.6	2.3	2.2	20	2.2	2.1	2.5	4.8	2.6	2.3	2.2	2.1
5	2.1	2.4	2.8	2.4	3.1	2.6	2.3	2.2	21	2.2	2.3	2.4	4.7	2.6	2.3	2.2	2.1
6	2.1	2.5	3.7	2.4	3.0	2.6	2.3	2.2	22	2.2	2.3	2.4	4.3	2.6	2.3	2.2	2.1
7	2.1	2.1	3.5	2.4	3.0	2.5	2.3	2.2	23	2.2	2.2	2.4	3.9	2.6	2.3	2.3	2.1
8	2.1	2.1	4.3	2.4	2.9	2.5	2.3	2.1	24	2.2	2.2	2.4	3.7	2.6	2.3	2.2	2.1
9	2.1	2.1	5.7	2.4	2.9	2.5	2.3	2.1	25	2.2	2.3	2.5	3.5	2.6	2.4	2.2	2.1
10	2.3	2.1	3.9	2.6	2.8	2.5	2.2	2.1	26	2.2	2.4	2.5	3.1	2.6	2.5	2.2	2.1
11	2.2	2.1	3.6	3.0	2.8	2.4	2.2	2.1	27	2.2	2.7	2.5	3.3	2.6	2.4	2.2	2.1
12	2.1	2.1	5.5	2.8	2.7	2.4	2.2	2.2	28	2.3	2.4	2.7	3.3	2.6	2.4	2.2	2.1
13	2.1	2.2	4.4	2.7	2.7	2.4	2.2	2.1	29	2.3	2.3	2.7		2.6	2.3	2.2	2.1
14	2.2	2.2	3.6	2.9	2.7	2.4	2.2	2.1	30	2.2	2.3	2.6		2.8	2.3	2.2	2.1
15	2.2	2.2	3.2	3.5	2.6	2.4	2.3	2.1	31		2.3	2.6		2.8		2.2	
16	2.2	2.1	2.9	7.9	2.6	2.4	2.2	2.1									

Crest Stages:							
Date	12-27-58	1- 6-59	1- 9-59	1-12-59	2-16-59	2-17-59	3-30-59
Time	2:00 AM	4:00 AM	7:00 AM	9:45 AM	10:30 AM	3:00 PM	5:30 PM
Stage	2.9	4.3	7.2	7.4	10.6	7.8	3.0

E-Estimated NR-No Record

TABLE 241

DAILY MEAN GAGE HEIGHT
STONY CREEK NEAR HAMILTON CITY

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1	3.6	NF	NF	5.0	6.3	5.2	4.1	NF	17	NF	NF	5.2	9.2	4.8	4.0	3.2	NF
2	3.6	NF	NF	4.9	6.4	5.1	4.0	NF	18	NF	NF	5.0	8.9	4.6	4.1	3.2	NF
3	3.6	NF	NF	4.8	6.4	4.9	3.8	NF	19	NF	NF	4.9	8.6	4.6	4.1	NF	NF
4	3.5	NF	NF	4.8	6.4	4.7	3.8	NF	20	NF	NF	4.8	8.2	4.4	4.1	NF	NF
5	NF	NF	NF	4.7	6.6	4.6	3.9	NF	21	NF	NF	4.7	8.2	4.4	4.0	NF	NF
6	NF	NF	4.8	4.6	6.7	4.8	3.9	NF	22	NF	NF	4.6	7.9	4.4	3.8	NF	NF
7	NF	NF	4.4	4.6	6.0	4.8	3.7	NF	23	NF	NF	4.6	7.5	4.4	3.8	NF	NF
8	NF	NF	4.9	4.5	5.8	4.6	3.5	NF	24	NF	NF	4.5	7.2	4.3	3.7	NF	NF
9	NF	NF	8.1	4.5	5.8	4.6	3.7	NF	25	NF	NF	4.8	7.0	4.4	3.8	NF	NF
10	NF	NF	6.6	4.5	6.0	4.5	3.6	NF	26	NF	NF	5.3	6.4	4.4	4.1	NF	NF
11	NF	NF	6.2	4.5	6.0	4.3	3.6	NF	27	NF	NF	5.2	6.6	4.8	4.3	NF	NF
12	NF	NF	6.6	4.5	5.9	4.0	3.5	NF	28	NF	NF	5.6	6.2	4.9	4.1	NF	NF
13	NF	NF	6.8	4.4	5.8	4.0	3.4	NF	29	NF	NF	5.6		5.0	4.0	NF	NF
14	NF	NF	6.0	4.4	5.6	3.9	3.4	NF	30	NF	NF	5.4		5.1	4.0	NF	NF
15	NF	NF	5.6	6.1	5.4	4.0	3.4	NF	31		NF	5.2		5.5		NF	
16	NF	NF	5.4	11.1	5.2	3.9	3.3	NF									

Crest Stages:			
Date	1- 9-59	1-12-59	2-16-59
Time	8:30 AM	9:00 PM	2:30 PM
Stage	9.4	8.0	12.8

E-Estimated NR-No Record

TABLE 242

DAILY GAGE HEIGHT*
STONY CREEK AT ST. JOHN

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	NF	NF	NF	0	1.1	NF	NF	NF	17	NF	NF	0.7	4.0	1.5	NF	NF	NF
2	NF	NF	NF	0	1.0	NF	NF	NF	18	NF	NF	0.7	3.7	1.5	NF	NF	NF
3	NF	NF	NF	0	1.0	NF	NF	NF	19	NF	NF	0.4	3.4	1.5	NF	NF	NF
4	NF	NF	NF	0	1.3	NF	NF	NF	20	NF	NF	0.3	3.0	1.4	NF	NF	NF
5	NF	NF	NF	0	1.5	NF	NF	NF	21	NF	NF	0	3.1	1.4	NF	NF	NF
6	NF	NF	NF	0	1.6	NF	NF	NF	22	NF	NF	0	2.9	1.4	NF	NF	NF
7	NF	NF	NF	0	1.6	NF	NF	NF	23	NF	NF	0	2.1	0	NF	NF	NF
8	NF	NF	NF	0	1.6	NF	NF	NF	24	NF	NF	0	1.8	0	NF	NF	NF
9	NF	NF	3.9	0	1.6	NF	NF	NF	25	NF	NF	0	1.7	0	NF	NF	NF
10	NF	NF	2.0	0	1.6	NF	NF	NF	26	NF	NF	0	1.7	0	NF	NF	NF
11	NF	NF	2.0	0	1.6	NF	NF	NF	27	NF	NF	0	1.6	0	NF	NF	NF
12	NF	NF	2.0	0	1.5	NF	NF	NF	28	NF	NF	0	1.2	0	NF	NF	NF
13	NF	NF	2.0	0	1.5	NF	NF	NF	29	NF	NF	0		0	NF	NF	NF
14	NF	NF	1.4	0	1.5	NF	NF	NF	30	NF	NF	0		0	NF	NF	NF
15	NF	NF	1.0	1.0	1.5	NF	NF	NF	31		NF	0		0		NF	
16	NF	NF	0.8	5.0	1.5	NF	NF	NF									

Crest Stages:	
Date	
Time	
Stage	

E-Estimated NR-No Record

* Individual daily staff gage readings.

TABLE 243

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT ORD FERRY

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	97.9	97.8	96.8	102.7	100.7	97.8	97.2	96.6	17	97.8	97.4	101.0	113.9	97.8	96.5	96.9	97.0
2	97.9	97.8	96.8	101.1	100.5	97.3	97.2	96.6	18	97.8	97.4	100.6	108.5	97.8	96.7	97.0	97.0
3	97.7	97.8	96.7	100.3	100.4	97.1	97.1	96.6	19	97.8	97.4	100.5	106.1	97.6	96.9	96.9	97.0
4	97.7	97.8	96.7	100.0	100.1	97.0	97.1	96.6	20	97.8	97.4	100.3	105.4	97.5	96.9	96.8	97.0
5	97.7	97.8	97.0	99.7	99.9	96.9	97.0	96.7	21	97.8	97.4	100.2	108.3	97.4	96.9	96.8	97.0
6	97.7	97.6	101.4	99.5	99.6	96.7	97.0	96.7	22	97.8	97.4	100.1	108.2	97.4	97.0	96.8	97.0
7	97.6	97.7	100.0	99.1	99.3	96.4	96.9	96.9	23	97.8	97.2	100.0	107.8	97.4	97.2	96.8	97.1
8	97.6	97.8	99.9	99.0	99.1	96.2	96.9	96.9	24	97.8	97.2	100.0	106.1	97.6	97.3	96.8	97.2
9	97.6	97.8	104.9	98.9	99.0	96.0	96.9	96.9	25	97.8	97.1	100.4	105.1	97.4	97.4	96.8	97.2
10	97.7	97.7	105.3	98.9	98.9	95.9	96.9	96.9	26	97.8	97.1	102.0	103.5	97.3	97.7	96.8	97.4
11	97.8	97.6	103.4	99.2	98.8	95.9	96.8	96.9	27	97.8	97.2	101.1	102.0	97.4	97.9	96.8	97.4
12	97.7	97.5	103.3	99.3	98.4	96.0	96.9	96.9	28	97.8	97.5	102.0	101.2	97.3	97.8	96.8	97.5
13	97.7	97.4	107.1	99.1	98.2	96.0	96.8	96.8	29	97.8	97.1	104.9		97.1	97.4	96.7	97.6
14	97.8	97.4	103.8	99.0	98.2	95.9	96.9	97.0	30	97.8	96.9	104.7		97.1	97.2	96.7	97.6
15	97.9	97.4	102.2	101.1	98.0	95.8	96.9	97.1	31		96.8	104.3		98.0		96.7	
16	97.8	97.4	101.4	108.5	97.9	96.1E	96.9	97.1									

Crest Stages:								
Date	1- 6-59	1- 9-59	1-13-59	1-26-59	1-29-59	2-17-59	2-19-59	2-21-59
Time	1:30 PM	9:00 PM	12:00 Noon	9:00 AM	9:00 AM	8:30 AM	7:30 PM	9:00 PM
Stage	102.1	106.5	107.8	102.4	105.1	114.8	106.3	109.4

E-Estimated NR-No Record

TABLE 244

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT BUTTE CITY

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	72.1	72.0	71.0	78.0	75.9	72.4	NR	71.0	17	72.0	71.6	75.6	90.5	72.4	70.8	71.3	71.3
2	72.2	72.0	71.0	75.6	75.6	71.9	71.6	71.0	18	72.0	71.6	75.1	88.0	72.3	71.1	71.3	71.4
3	72.0	72.0	71.0	75.1	75.4	71.6	71.5	71.0	19	72.0	71.6	75.0	83.1	72.2	71.2	71.3	71.3
4	71.9	72.0	71.0	74.6	75.1	71.5	71.5	71.0	20	72.0	71.6	74.8	81.5	72.0	71.3	71.2	71.3
5	71.9	72.0	71.1	74.3	74.8	71.4	71.4	71.0	21	72.0	71.6	74.7	84.0	72.0	71.3	71.2	71.3
6	71.9	71.9	74.7	74.0	74.5	71.2	71.3	71.1	22	72.0	71.6	74.6	85.8	72.0	71.4	71.2	71.3
7	71.9	71.9	74.6	73.7	74.2	71.0	71.3	71.2	23	72.0	71.5	74.4	84.1	71.9	71.5	71.1	71.4
8	71.9	72.0	73.7	73.5	74.0	70.7	71.3	71.3	24	72.0	71.4	74.4	82.8	72.1	71.6	71.2	71.5
9	71.9	72.0	78.3	73.4	73.8	70.5	71.3	71.3	25	72.0	71.4	74.7	81.6	71.9	NR	71.2	71.5
10	71.9	71.9	80.9	73.4	73.7	70.4	71.2	71.2	26	72.0	71.3	76.3	79.4	71.8	NR	71.2	71.7
11	72.0	71.8	78.7	73.5	73.5	70.3	71.2	71.2	27	72.0	71.3	75.8	77.6	71.9	NR	71.2	71.7
12	72.0	71.7	77.3	73.8	73.2	70.4	71.2	71.2	28	72.0	71.7	76.1	76.4	71.8	NR	71.1	71.7
13	72.0	71.6	82.8	73.6	73.0	70.4	71.2	71.2	29	72.0	71.4	79.7		71.7	NR	71.1	71.9
14	72.0	71.6	80.1	73.5	72.8	70.4	71.2	71.3	30	72.0	71.2	80.0		71.6	NR	71.1	71.9
15	72.1	71.6	77.1	74.9	72.7	70.2	71.3	71.4	31		71.1	79.6		72.2		71.0	
16	72.1	71.6	76.1	81.5	72.6	70.4	71.3	71.4									

Crest Stages:							
Date	12-28-58	1- 6-59	1-10-59	1-13-59	1-29-59	2-17-59	2-22-59
Time	10:00 AM	7:00 PM	4:00 AM	6:00 AM	5:00 PM	5:00 PM	5:00 AM
Stage	71.9	76.1	81.7	83.8	80.1	91.4	86.3

E-Estimated NR-No Record

TABLE 245

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT MOULTON WEIR

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1									17				a 78.9				
2									18				78.4				
3									19								
4									20								
5									21								
6									22								
7									23								
8									24								
9									25								
10									26								
11									27								
12									28								
13									29								
14									30								
15									31								
16																	

Crest Stages:	
Date	2-17-59
Time	10:00 PM
Stage	79.8

E-Estimated NR-No Record

a Mean gage height for partial day period of flow to Butte Basin via Moulton Weir.

TABLE 246

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER OPPOSITE MOULTON WEIR

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	NR	58.8E	57.8	68.2	63.6	59.4	58.1	57.6	17	58.8	58.4	63.4	78.8	59.4	57.3	57.8	57.8
2	NR	58.8	57.7	65.2	63.0	58.8	58.1	57.5	18	58.8	58.4	62.8	78.3	59.3	57.6	57.8	57.8
3	58.8E	58.8	57.7	62.9	62.8	58.5	58.1	57.5	19	58.8	58.4	62.5	74.4	59.2	57.8	57.8	57.8
4	58.7	58.8	57.7	62.1	62.6	58.3	58.0	57.4	20	58.8	58.4	62.2	72.1	59.0	57.9	57.8	57.8
5	58.7	58.8	57.8	61.7	62.2	58.2	58.0	57.5	21	58.8	58.4	62.0	73.1	58.9	57.8	57.8	57.8
6	58.7	58.8	61.1	61.3	61.8	58.0	57.9	57.6	22	58.8	58.4	61.9	75.9	58.9	57.9	57.7	57.8
7	58.7	58.7	62.2	61.0	61.4	57.8	57.9	57.7	23	58.8	58.3	61.8	74.8	58.8	58.1	57.7	57.8
8	58.7	58.8	60.7	60.7	61.2	57.5	57.8	57.8	24	58.8	58.2	61.7	73.4	59.0	58.2	57.7	58.0
9	58.7	58.8	65.5	60.6	61.0	57.2	57.8	57.8	25	58.8	58.2	61.9	72.3	58.8	58.3	57.7	58.0
10	58.7	58.7	70.9	60.5	60.8	57.0	57.8	57.7	26	58.8	58.1	63.8	69.8	58.7	58.6	57.7	58.1
11	58.8	58.6	69.1	60.6	60.7	56.9	57.8	57.7	27	58.8	58.1	64.0	67.1	58.7	58.8	57.7	58.2
12	58.8	58.6	66.1	60.9	60.4	57.0	57.8	57.7	28	58.8	58.4	63.3	64.7	58.8	58.8	57.7	58.2
13	58.8	58.4	71.8	60.7	60.0	57.0	57.8	57.7	29	NR	58.2	68.4		58.6	58.4	57.6	58.4
14	58.8	58.4	71.3	60.5	59.9	56.9	57.8	57.8	30	NR	58.0	70.1		58.5	58.2	57.6	58.4
15	58.9	58.4	66.8	61.8	59.8	56.7	57.9	57.9	31		57.8	70.0		58.9		57.6	
16	58.9	58.4	64.5	68.8	59.6	56.8	57.8	57.9									

Crest Stages:								
	Date	1- 6-59	1-10-59	1-13-59	1-26-59	1-30-59	2-12-59	2-17-59	2-22-59
	Time	11:00 PM	10:00 AM	11:00 PM	8:00 PM	5:00 PM	10:00 AM	8:00 PM	11:30 AM
	Stage	63.4	71.3	73.8	64.7	70.2	61.0	80.1	76.2

E-Estimated NR-No Record

TABLE 247

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT COLUSA WEIR

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1				a 62.1					17				65.6				
2									18				66.2				
3									19				64.4				
4									20				63.4				
5									21				63.7				
6									22				64.7				
7									23				64.4				
8									24				63.9				
9									25				63.5				
10			a 62.7						26				62.5				
11			a 62.3						27				a 61.8				
12									28								
13			a 63.2						29			a 62.0					
14			a 63.2						30			62.5					
15			a 61.9						31			62.5					
16				a 63.0													

Crest Stages:						
	Date	1-10-59	1-14-59	1-30-59	2-18-59	2-22-59
	Time	4:00 PM	1:00 AM	6:00 PM	2:00 AM	3:00 PM
	Stage	62.9	63.9	62.6	66.6	64.8

E-Estimated NR-No Record

a Mean gage height for partial day period of flow to Colusa Bypass via Colusa Weir.

TABLE 248

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT COLUSA

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr	May	June
1	43.7	43.4	41.7	59.3	52.9	44.5	42.8	41.7	17	43.4	42.7	52.6	63.6	45.0	41.2	42.2	42.2
2	43.7	43.4	41.6	56.1	51.6	44.2	42.7	41.7	18	43.4	42.7	51.2	64.8	44.9	41.6	42.2	42.2
3	43.6	43.4	41.6	52.4	51.0	43.5	42.7	41.6	19	43.4	42.7	50.4	62.8	44.7	42.0	42.3	42.2
4	43.3	43.5	41.5	50.2	50.5	43.2	42.6	41.5	20	43.4	42.7	49.9	61.7	44.4	42.2	42.1	42.2
5	43.3	43.5	41.7	49.2	49.8	43.0	42.5	41.5	21	43.5	42.8	49.5	61.9	44.2	42.2	42.1	42.2
6	43.2	43.5	45.2	48.3	49.3	42.8	42.4	41.7	22	43.5	42.6	49.2	63.1	44.1	42.3	42.0	42.2
7	43.2	43.1	49.9	47.8	48.6	42.4	42.3	41.8	23	43.5	42.6	49.0	62.8	44.0	42.5	42.0	42.2
8	43.2	43.4	47.5	47.2	48.1	41.8	42.2	42.0	24	43.4	42.3	48.8	62.2	44.2	42.8	42.0	42.3
9	43.2	43.4	51.3	46.9	47.7	41.3	42.2	42.1	25	43.4	42.3	48.9	61.8	44.2	42.9	42.0	42.4
10	43.2	43.4	60.0	46.7	47.4	41.0	42.2	42.0	26	43.4	42.1	51.0	60.6	43.8	43.3	41.9	42.6
11	43.4	43.2	59.9	46.8	47.1	40.9	42.2	42.0	27	43.5	42.2	52.7	58.4	43.8	43.7	41.9	42.8
12	43.4	43.1	56.6	47.3	46.8	40.9	42.2	42.0	28	43.5	42.6	51.4	55.0	43.8	44.0	41.9	42.8
13	43.4	42.8	60.0	47.2	46.1	41.0	42.2	42.0	29	43.5	42.5	56.7		43.6	43.5	41.8	43.1
14	43.4	42.8	61.3	46.9	45.8	40.8	42.2	42.0	30	43.4	42.1	60.4		43.4	42.9	41.8	43.2
15	43.6	42.7	58.1	47.7	45.6	40.6	42.3	42.3	31		41.8	60.5		43.8		41.8	
16	43.6	42.7	54.7	54.6	45.3	40.6	42.2	42.3									

Crest Stages:						
Date	1-7-59	1-10-59	1-14-59	1-30-59	2-18-59	2-22-59
Time	7:00 AM	7:00 PM	3:00 AM	8:00 PM	3:00 AM	4:00 PM
Stage	50.5	60.8	62.0	60.5	65.3	63.3

E-Estimated NR-No Record

TABLE 249

DAILY MEAN GAGE HEIGHT
BUTTE CREEK NEAR CHICO

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec	Jan.	Feb	Mar	Apr.	May	June
1	1.7	1.6	1.7	2.0	2.5	2.4	2.2	1.9	17	1.7	1.6	2.1	4.8	2.3	2.2	2.0	1.7
2	1.7	1.6	1.6	2.0	2.5	2.4	2.2	1.8	18	1.7	1.6	2.0	4.2	2.3	2.2	2.0	1.7
3	1.7	1.6	1.6	2.0	2.5	2.4	2.1	1.8	19	1.7	1.6	2.0	3.7	2.2	2.2	2.0	1.7
4	1.7	1.6	1.6	1.9	2.5	2.4	2.1	1.8	20	1.7	1.6	2.0	3.3	2.2	2.2	2.0	1.7
5	1.7	1.6	2.0	1.9	2.4	2.4	2.1	1.8	21	1.7	1.8	2.0	3.3	2.2	2.2	1.9	1.6
6	1.7	1.6	2.4	1.9	2.4	2.4	2.1	1.9	22	1.7	1.8	1.9	3.0	2.3	2.2	1.9	1.6
7	1.7	1.6	2.2	1.9	2.4	2.4	2.1	1.8	23	1.7	1.7	1.9	2.8	2.4	2.2	2.0	1.6
8	1.7	1.6	2.7	1.9	2.4	2.3	2.0	1.8	24	1.7	1.7	2.0	2.6	2.4	2.1	2.0	1.6
9	1.7	1.6	3.6	1.9	2.4	2.3	2.0	1.8	25	1.7	1.8	2.1	2.6	2.3	2.2	2.0	1.6
10	1.8	1.6	2.8	2.0	2.3	2.3	2.0	1.8	26	1.7	1.8	2.0	2.5	2.4	2.4	1.9	1.6
11	1.8	1.6	2.7	2.2	2.3	2.3	2.0	1.8	27	1.7	2.0	2.0	2.5	2.3	2.3	2.0	1.7
12	1.7	1.6	4.2	2.1	2.3	2.3	2.0	1.8	28	1.7	1.8	2.2	2.5	2.3	2.2	1.9	1.6
13	1.7	1.6	3.2	2.0	2.3	2.3	2.0	1.7	29	1.6	1.7	2.1		2.3	2.2	1.9	1.6
14	1.8	1.6	2.6	2.1	2.3	2.2	1.9	1.7	30	1.6	1.7	2.0		2.5	2.2	1.9	1.6
15	1.8	1.6	2.3	2.3	2.3	2.2	2.0	1.7	31		1.7	2.0		2.5		1.9	
16	1.7	1.6	2.2	5.1	2.3	2.2	2.0	1.7									

Crest Stages:						
Date	12-27-58	1-6-59	1-9-59	1-12-59	2-16-59	2-17-59
Time	1:15 AM	5:30 AM	8:00 AM	10:00 AM	12:30 PM	1:45 PM
Stage	2.3	2.7	4.4	5.4	6.8	5.6

E-Estimated NR-No Record

TABLE 250

DAILY MEAN GAGE HEIGHT
BUTTE SLOUGH AT OUTFALL GATES

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	40.4	39.8	40.5	47.4	50.3E	41.9	42.0	41.8	17	39.9	39.1	50.3E	47.6	42.1	40.9E	42.2	42.3
2	40.3	39.8	40.4	46.9	49.1E	41.5	42.2	42.3	18	39.8	40.1	49.1E	55.8E	41.9	40.9E	42.1	42.3
3	40.2	39.9	40.2	46.2	48.4E	41.0	42.2	42.1	19	39.8	40.8	48.1E	57.7E	41.7	41.0E	42.2	42.6
4	39.9	39.9	40.1	45.8	47.9	40.5	42.3	42.0	20	39.9	40.9	47.5	56.7E	41.4	41.0E	42.0	42.4
5	39.8	40.0	39.2	45.4	47.3	40.2E	42.2	42.4	21	39.9	41.3	47.0	56.1E	41.1	40.8E	42.0	42.4
6	39.7	40.0	40.9	45.1	46.8	39.8E	42.2	42.4	22	39.9	41.7	46.6	55.5E	41.0	40.4E	42.1	42.4
7	39.7	39.6	44.7	44.6	46.2	39.2E	42.1	42.3	23	39.9	41.8	46.3	55.9E	40.9	40.3	42.2	42.2
8	39.7	39.9	44.9	44.0	45.8	38.5E	41.9	42.3	24	39.8	41.9	46.1	55.3E	41.0	40.4	42.1	42.1
9	39.6	39.9	45.6	43.6	45.4	39.8E	41.7	42.1	25	39.8	42.0	46.0	54.8E	41.2	40.8	42.2	41.8
10	39.6	39.9	47.0	43.4	45.1	41.0E	42.0	42.2	26	39.8	41.9	46.6	54.2E	40.9	41.2	42.1	41.3
11	39.8	39.7	47.7	43.4	44.7	40.9E	42.5	42.3	27	39.8	41.6	46.7	52.8E	40.8	42.1	42.1	41.2
12	39.9	39.6	48.1	44.0	44.3	40.9E	42.2	42.4	28	39.8	41.2	46.5	51.5E	40.8	41.8	42.1	41.2
13	39.8	39.3	48.5	44.2	43.7	40.8E	42.0	42.3	29	39.8	41.3	46.3		40.6	41.8	42.1	41.3
14	39.8	39.2	51.2E	43.8	43.2	40.6E	42.0	42.3	30	39.8	41.0	46.2		40.4	41.8	42.1	41.4
15	39.9	39.2	52.2E	44.5	42.8	40.6E	42.1	42.3	31		40.7	47.0		40.7		41.9	
16	40.1	39.1	51.4E	46.0	42.4	40.9E	42.3	42.3									

Crest Stages:								
Date	1- 8-59	1-27-59	2- 1-59	2-12-59	2-19-59	5- 5-59	5-11-59	6-19-59
Time	2:15 AM	3:00 AM	7:00 AM	10:00 PM	7:30 AM	6:30 AM	7:30 PM	7:45 PM
Stage	45.6	46.8	47.5	44.2	57.7	42.6	42.6	42.6

E-Estimated NR-No Record

TABLE 251

DAILY GAGE HEIGHT*
SACRAMENTO RIVER AT BUTTE SLOUGH OUTFALL GATES

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	NR	NR	NR	NR	NR	a 41.4	38.8	37.7	17	NR	NR	NR	NR	41.3	a 35.9	38.5	38.0
2	NR	NR	37.8	53.8	49.1	a 40.7	38.8	37.6	18	NR	NR	NR	61.8	41.2	a 37.2	38.4	37.8
3	NR	NR	NR	NR	NR	a 40.0	38.8	37.4	19	NR	38.7	47.7	60.0	40.8	a 37.3	38.6	37.8
4	NR	NR	NR	NR	NR	a 39.7	38.8	37.3	20	NR	NR	NR	58.9	40.5	a 37.8	38.4	37.8
5	NR	NR	NR	NR	NR	a 39.3	38.8	37.2	21	NR	NR	NR	NR	40.5	a 37.8	38.4	37.8
6	NR	NR	NR	NR	NR	a 39.1	38.7	37.5	22	NR	NR	NR	60.0	40.4	a 37.8	38.3	37.8
7	NR	NR	NR	NR	NR	a 38.6	38.6	37.6	23	NR	NR	NR	59.7	40.4	a 37.6	38.2	37.8
8	NR	NR	NR	NR	NR	38.0	38.6	37.8	24	NR	NR	NR	NR	40.3	a 38.4	38.1	38.0
9	NR	NR	NR	NR	NR	a 37.1	38.4	37.8	25	NR	NR	NR	NR	40.6	a 38.5	38.2	38.0
10	NR	NR	NR	NR	NR	a 36.8	38.3	37.7	26	NR	NR	NR	58.1	40.2	a 39.0	38.1	38.2
11	NR	NR	NR	43.2	NR	36.7	38.2	37.6	27	NR	NR	NR	56.5	40.1	a 39.4	38.2	38.5
12	NR	NR	NR	NR	NR	36.1	38.4	37.6	28	NR	NR	48.4	NR	40.2	a 40.0	38.2	38.6
13	NR	NR	NR	NR	NR	a 36.6	38.4	37.6	29	NR	NR	NR		40.0	a 39.6	38.1	38.8
14	39.6	NR	58.3	NR	NR	a 36.2	38.4	37.6	30	NR	38.3	NR		39.7	a 39.0	38.0	39.0
15	NR	NR	56.2	NR	NR	a 36.0	38.5	38.0	31		NR	NR		39.8		37.8	
16	NR	NR	52.7	NR	41.8	a 35.4	38.5	38.0									

Crest Stages:	
Date	
Time	
Stage	

E-Estimated NR-No Record

* Individual daily staff gage readings.
a Average of two daily staff gage readings.

TABLE 252

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT MERIDIAN

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr	May	June
1	38.1	37.6	35.7	54.5	48.9	39.5	36.7	35.5	17	37.6	36.8	48.6	57.4	39.9	34.6	36.2	35.7
2	38.0	37.6	35.6	51.9	47.4	39.0	36.7	35.4	18	37.5	36.7	47.0	58.8	39.6	35.2	36.2	35.6
3	37.9	37.6	35.6	48.3	46.5	38.3E	36.7	35.2	19	37.6	36.6	46.0	57.3	39.5	35.6	36.2	35.6
4	37.6	37.6	35.5	45.7	45.9	37.9E	36.6	35.1	20	37.6	36.6	45.3	56.4	39.1	35.8	36.2	35.5
5	37.5	37.7	35.7	44.3	45.3	37.6	36.6	35.0	21	37.6	36.8	44.8	56.4	38.8	35.8	36.1	35.6
6	37.4	37.6	38.2	43.4	44.6	37.3	36.5	35.3	22	37.6	36.6	44.4	57.4	38.8	35.8	36.0	35.5
7	37.4	37.3	44.4	42.8	43.9	36.8	36.4	35.4	23	37.6	36.6	44.1	57.3	38.7	36.1	35.9	35.5
8	37.4	37.5	42.8	42.1	43.4	36.2	36.3	35.5	24	37.6	36.3	43.9	56.8	38.7	36.3	35.9	35.7
9	37.3	37.6	44.7	41.7	42.9	35.5	36.2	35.5	25	37.6	36.3	43.9	56.4	38.8	36.5	35.9	35.7
10	37.4	37.5	53.9	41.5	42.6	35.0	36.2	35.4	26	37.5	36.1	45.6	55.6	38.4	36.9	35.9	36.0
11	37.5	37.4	54.9	41.5	42.3	34.9	36.1	35.4	27	37.6	36.2	47.9	54.0	38.4	37.4	35.9	36.2
12	37.6	37.2	52.4	42.0	41.9	34.8	36.2	35.4	28	37.6	36.6	46.8	51.2	38.4	37.9	35.8	36.3
13	37.6	37.0	54.3	42.1	41.2	34.8	36.1	35.4	29	37.6	36.7	50.8		38.2	37.5	35.8	36.5
14	37.6	36.8	56.1	41.7	40.8	34.6	36.2	35.5	30	37.6	36.2	55.0		38.1E	36.9	35.7	36.6
15	37.6	36.8	53.8	42.1	40.5	34.2	36.3	35.7	31		35.9	55.3		38.1E		35.7	
16	37.8	36.8	50.8	48.3	40.2	34.0	36.2	35.7									

Crest Stages:								
	Date	1- 7-59	1-10-59	1-14-59	1-27-59	1-30-59	2-12-59	2-18-59	2-22-59
	Time	1:00 PM	10:00 PM	5:00 AM	10:00 AM	11:00 PM	11:00 PM	6:00 AM	7:00 PM
	Stage	44.8	55.4	56.5	48.1	55.3	42.2	59.1	57.6

E - Estimated NR - No Record

TABLE 253

DAILY GAGE HEIGHT*
SACRAMENTO RIVER AT RECLAMATION DISTRICT 70 PUMPING PLANT

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	33.5	32.7	31.3	49.6	45.8	34.4	30.6	29.7	17	32.7	31.8	45.2	50.4	35.0	27.6	30.5	29.8
2	33.4	32.7	30.7	48.3	44.0	34.5	30.6	29.5	18	32.7	31.8	43.4	52.2	34.6	27.5	30.6	29.6
3	33.2	32.7	30.6	45.4	42.5	33.6	30.6	29.2	19	32.8	31.8	42.0	51.4	34.5	29.0	30.6	29.6
4	33.4	32.7	30.5	42.2	42.0	33.0	30.6	29.0	20	32.8	31.8	41.0	50.7	34.2	29.3	30.4	29.5
5	32.4	32.7	30.5	40.4	41.3	33.0	30.6	29.0	21	32.6	31.7	40.7	50.5	33.8	29 3	30.4	29.4
6	32.4	32.8	30.7	39.2	40.5	32.5	30.6	29.0	22	32.6	31.7	40.1	51.1	33.8	29.3	30.3	29.5
7	32.4	32.8	39.7	38.5	39.9	32.5	30.5	29.5	23	32.7	31.8	40.0	51.2	33.5	29.4	30.2	29.5
8	32.2	32.8	39.3	37.7	39.0	31.0	30.5	29.5	24	32.7	31.8	39.7	50.9	33 4	29.8	30.1	29.5
9	32.2	32.8	38.5	37.1	38.6	30.0	30.5	29.5	25	32.7	31.8	39.6	50.6	33.6	30.0	30.1	29.7
10	32.2	32.8	47.7	36.9	38.0	29.2	30.5	29.5	26	32.7	31.8	40.0	50.3	33.5	30.3	30.1	30.0
11	32.2	32.8	49.8	36.8	37.6	29.0	30.4	29.5	27	32.7	31.7	43.5	49.6	33.3	31.0	30.1	30.3
12	32.3	32.5	48.6	37.0	37.4	28.9	30.2	29.4	28	32.7	31.5	43.0	47.9	33.2	31.8	29.9	30.5
13	32.4	32.1	48.5	37.6	36.8	28.9	30.2	29.4	29	32.7	31.8	44.0		33.1	31.8	29.8	30.6
14	32.4	32.0	50.5	36.8	36.0	28.5	30.2	29.4	30	32.7	31.5	49.5		33.1	31.0	29.8	30.9
15	32.4	32.0	49.5	37.0	35.8	28.0	30.3	29.4	31		31.3	49.8		33.1		29.8	
16	32.4	31.9	47.5	40.9	34.9	27.5	30.4	29.7									

Crest Stages:	
	Date
	Time
	Stage

E - Estimated NR - No Record

* Individual daily staff gage readings.

TABLE 254

DAILY GAGE HEIGHT*
TISDALE BYPASS AT RECLAMATION DISTRICT 1660 PUMPING PLANT

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	22.7	22.9	23.2	36.1	34.5	23.3	23.0	23.5	17	22.8	22.8	34.0	37.4	24.0	23.0	24.4	23.2
2	22.8	22.9	23.0	33.8	33.7	23.4	23.3	23.4	18	22.9	22.8	33.5	40.0	23.9	23.0	24.4	23.1
3	22.8	23.0	23.0	32.0	33.0	23.4	23.4	23.2	19	22.9	22.8	33.0	42.0	23.8	23.0	24.2	23.0
4	22.8	22.9	23.0	30.6	32.5	23.4	23.5	23.1	20	22.9	22.8	32.4	41.6	23.8	23.0	24.4	23.1
5	22.8	22.9	22.9	29.4	32.0	23.4	23.6	23.3	21	22.9	22.8	31.6	40.6	23.8	23.0	24.4	23.1
6	22.8	22.9	24.4	28.0	31.2	23.3	23.9	23.4	22	22.8	23.0	30.8	40.6	23.7	22.9	24.3	23.1
7	22.8	22.9	23.9	27.1	30.4	23.2	24.4	23.2	23	22.8	23.2	30.0	40.8	23.6	22.9	24.2	23.1
8	22.8	23.0	24.9	26.2	29.8	23.0	24.2	23.2	24	22.8	23.7	29.4	40.4	23.6	23.0	24.0	23.2
9	22.8	23.0	26.3	25.6	29.0	22.9	24.0	23.2	25	22.8	23.6	28.9	40.0	23.6	22.9	23.8	23.2
10	22.9	23.0	30.8	25.2	28.2	22.9	24.0	23.0	26	22.8	23.5	28.4	39.2	23.6	23.0	23.8	23.2
11	22.9	22.9	36.4	25.2	27.4	22.8	23.9	23.0	27	22.8	23.7	28.4	37.8	23.6	23.2	23.7	23.1
12	22.8	22.9	34.2	25.0	26.9	22.8	24.0	23.0	28	22.8	23.7	28.6	35.8	23.5	23.0	23.5	23.1
13	22.8	22.9	34.5	25.1	26.2	22.7	24.2	23.0	29	22.9	23.6	28.5		23.5	22.9	23.6	23.0
14	22.9	22.9	37.8	25.1	25.6	22.8	24.3	23.0	30	22.9	23.5	35.8		23.4	22.8	23.6	22.9
15	22.8	22.8	36.2	25.1	25.2	23.0	24.4	23.0	31		23.4	36.4		23.4		23.6	
16	22.8	22.8	34.4	25.3	24.4	22.9	24.4	23.1									

Crest Stages:	
Date	
Time	
Stage	

E - Estimated NR - No Record

* Average of two daily staff gage readings, 7:00 AM and 5:00 PM.

TABLE 255

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT TISDALE WEIR

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1				47.2					17				47.8				
2				a 46.3					18				48.5				
3									19				48.2				
4									20				48.0				
5									21				47.9				
6									22				48.2				
7									23				48.2				
8									24				48.0				
9									25				47.9				
10			a 47.0						26				47.7				
11			47.4						27				47.2				
12			46.5						28				a 46.2				
13			46.9						29			a 46.2					
14			47.7						30			47.3					
15			47.3E						31			47.4					
16			a 45.6E	a 45.7													

Crest Stages.					
Date	1-11-59	1-14-59	1-31-59	2-18-59	2-22-59
Time	3:00 AM	9:00 AM	2:00 PM	7:00 AM	7:00 PM
Stage	47.4	47.8	47.4	48.6	48.2

E - Estimated NR - No Record

a Mean gage height for partial day period of flow to Tisdale Bypass via Tisdale Weir.

TABLE 256

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER BELOW TISDALE WEIR

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	31.8	31.3	28.2	47.1	43.8	32.8	28.5	27.8	17	31.4	30.3	43.6	47.8	33.4	26.7	28.6	27.6
2	31.7	31.3	29.0	46.0	42.1	32.7	28.4	27.6	18	31.3	30.3	41.8	48.6	33.1	26.7	28.6	27.5
3	31.7	31.3	29.0	43.2	41.0	31.8	28.4	27.4	19	31.2	30.2	40.5	48.2	32.9	26.7	28.6	27.3
4	31.4	31.3	28.9	40.3	40.3	31.3	28.4	27.2	20	31.3	30.2	39.7	47.9	32.5	27.0	28.7	27.2
5	31.2	31.3	29.0	38.6	39.6	30.9	28.4	27.0	21	31.3	30.3	39.2	47.9	32.2	26.9	28.5	27.3
6	31.1	31.4	30.0	37.5	38.9	30.6	28.4	27.2	22	31.3	30.2	38.7	48.1	32.0	26.7	28.4	27.2
7	31.0	31.0	36.9	36.8	38.1	30.0	28.4	27.3	23	31.3	30.2	38.4	48.1	31.9	26.9	28.3	27.2
8	31.0	31.2	36.8	36.1	37.4	29.3	28.4	27.5	24	31.3	29.9	38.1	47.9	31.9	27.3	28.3	27.3
9	30.9	31.3	36.9	35.6	36.9	28.3	28.3	27.4	25	31.2	29.8	38.0	47.8	32.1	27.6	28.3	27.5
10	31.0	31.2	44.0	35.3	36.5	27.5	28.3	27.4	26	31.2	29.7	39.1	47.6	31.8	28.1	28.2	27.8
11	31.1	31.1	47.2	35.3	36.1	27.0	28.2	27.2	27	31.3	29.7	41.8	47.0	31.7	28.8	28.2	28.2
12	31.3	31.0	46.6	35.8	35.7	26.8	28.1	27.2	28	31.3	29.9	41.2	44.5	31.8	29.6	28.1	28.5
13	31.2	30.7	46.3	36.1	35.0	26.8	28.2	27.2	29	31.3	30.4	43.4		31.6	29.5	28.0	28.7
14	31.2	30.5	47.6	35.6	34.5	26.7	28.2	27.3	30	31.3	29.8	47.1		31.4	28.8	28.0	28.9
15	31.3	30.4	47.2	35.8	34.1	26.7	28.4	27.5	31		29.3	47.3		31.3		28.0	
16	31.5	30.4	45.7	40.7	33.7	26.7	28.5	27.6									

Crest Stages:								
Date	1- 8-59	1-11-59	1-14-59	1-27-59	1-31-59	2-12-59	2-18-59	2-22-59
Time	12:00 Mid.	11:00 AM	1:00 PM	5:00 PM	1:00 PM	11:30 PM	9:00 AM	8:00 PM
Stage	38.6	47.2	47.7	42.1	47.3	36.2	48.7	48.2

E-Estimated NR-No Record

TABLE 257

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER BELOW WILKINS SLOUGH

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr	May	June
1	31.3	30.7	28.7	46.6	43.5	32.3	28.2	27.4	17	30.8	29.8	42.8	47.2	32.9	25.2	28.2	27.2
2	31.2	30.7	28.6	45.6	41.8	32.3	28.1	27.2	18	30.7	29.7	41.2	48.2	32.6	25.9	28.2	27.1
3	31.1	30.7	28.5	42.8	40.6	31.5	27.9	27.0	19	30.7	29.7	39.9	47.8	32.4	26.4	28.2	27.0
4	30.8	30.8	28.4	39.9	39.9	30.9	27.9	26.8	20	30.7	29.7	39.2	47.6	32.1	26.7	28.2	26.9
5	30.6	30.8	28.6	38.2	39.2	30.5	28.1	26.7	21	30.8	29.8	38.7	47.5	31.7	26.6	28.1	27.0
6	30.6	30.9	30.1	37.1	38.4	30.2	28.0	26.9	22	30.8	29.7	38.3	47.7	31.6	26.5	28.0	27.0
7	30.5	30.5	37.0	36.4	37.6	29.7	28.0	27.0	23	30.8	29.6	37.9	47.7	31.5	26.6	27.9	27.0
8	30.5	30.6	36.8	35.7	37.0	28.9	28.0	27.2	24	30.7	29.4	37.6	47.6	31.5	27.0	27.9	27.1
9	30.4	30.7	37.2	35.2	36.5	28.0	28.1	27.1	25	30.7	29.3	37.5	47.4	31.7	27.3	27.9	27.2
10	30.4	30.7	45.1	34.9	36.0	27.2	28.1	27.0	26	30.7	29.2	38.6	47.2	31.4	27.8	27.8	27.5
11	30.6	30.6	46.6	34.9	35.7	26.7	27.9	26.9	27	30.7	29.2	41.3	46.7	31.2	28.5	27.8	27.9
12	30.8	30.4	45.7	35.4	35.3	26.5	27.8	26.9	28	30.7	29.4	40.8	45.4	31.4	29.3	27.8	28.1
13	30.7	30.1	46.2	35.6	34.6	26.4	27.8	26.9	29	30.7	29.9	43.0		31.2	29.1	27.7	28.3
14	30.7	29.9	47.1	35.2	34.0	25.9	27.8	27.0	30	30.7	29.4	46.5		31.0	28.5	27.6	28.5
15	30.8	29.8	46.5	35.3	33.6	25.3	28.0	27.2	31		28.9	46.8		31.0		27.6	
16	31.0	29.8	45.0	40.1	33.3	24.8	28.1	27.3									

Crest Stages:							
Date	1- 7-59	1-11-59	1-14-59	1-27-59	1-31-59	2-18-59	2-22-59
Time	8:00 PM	4:00 AM	9:00 AM	5:00 PM	4:00 PM	11:00 AM	8:00 PM
Stage	38.0	46.7	47.2	41.6	46.8	48.3	47.8

E-Estimated NR-No Record

TABLE 258

DAILY GAGE HEIGHT*
SACRAMENTO RIVER NEAR ROUGH AND READY BEND

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	23.4	22.8	21.3	38.0	37.2	25.1	21.2	20.5	17	23.0	22.0	36.2	39.9	25.8	17.3	21.5	20.0
2	23.5	22.7	21.0	37.4*	34.4	25.7	21.3	20.2	18	23.1	21.8	34.2	41.0	25.3	18.2	21.5	20.1
3	23.4	22.7	21.0	35.9	33.7	25.0	21.2	19.9	19	23.1	21.6	32.2	41.6	25.2	18.6	21.5	20.2
4	23.3	22.7	20.8	32.6	32.4	24.4	21.5	19.8	20	23.1	21.6	31.8	41.4	25.0	18.8	21.2	20.2
5	23.0	23.0	21.2	30.8	32.0	24.0	21.8	19.6	21	23.1	26.5	30.4	41.2	24.6	18.8	21.0	20.0
6	22.8	23.1	24.6	29.3	31.6	23.8	22.0	19.5	22	23.1	26.5	30.3	41.2	24.6	18.4	20.9	19.7
7	22.8	23.1	26.7	28.4	30.5	23.4	21.8	19.5	23	23.1	21.5	30.0	41.1	24.4	18.4	20.6	19.5
8	22.6	23.1	29.4	27.8	29.4	22.8	21.3	19.2	24	23.2	21.5	29.7	40.9	24.2	18.4	20.5	19.3
9	22.4	23.2	34.1	27.5	29.2	21.8	21.1	19.6	25	23.2	21.5	29.7	40.8	24.8	18.6	20.6	19.1
10	22.6	23.2	37.4	27.1	28.8	20.7	21.1	20.0	26	23.1	21.4	30.0	40.2	24.6	19.6	20.6	19.4
11	22.8	23.2	38.2	27.6	28.4	20.3	21.0	19.7	27	23.1	21.4	32.5	39.6	24.4	20.7	20.6	19.7
12	23.1	23.2	38.0	28.2	28.0	19.8	20.9	19.7	28	23.0	22.5	32.5	39.0	24.4	21.6	20.4	19.8
13	23.1	23.2	38.2	28.0	27.6	19.0	21.2	19.8	29	23.0	22.5	33.0		24.4	22.0	20.4	19.8
14	23.1	22.1	39.5	27.6	27.5	19.0	20.7	19.9	30	22.8	22.6	36.8		24.3	21.6	20.4	20.0
15	23.0	22.1	38.6	27.3	26.6	18.3	21.2	20.0	31		21.3	37.9		24.2		20.4	
16	23.0	22.1	37.5	34.8	26.3	18.0	21.4	20.0									

Crest Stages:	
Date	
Time	
Stage	

E-Estimated NR-No Record

* Average of two or more daily staff gage readings.

TABLE 259

DAILY MEAN GAGE HEIGHT
COLUSA BASIN DRAIN AT HIGHWAY 20

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan.	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	40.0	39.3	39.8	38.3	40.0	40.9	43.2	41.5	17	39.8	39.2	40.7	46.7	38.4	37.8	43.1	40.8
2	40.3	39.2	39.5	38.2	39.8	40.5	43.4	41.0	18	39.7	39.5	40.2	48.0	38.4	37.4	43.0	40.8
3	40.1	39.2	39.1	38.2	39.6	40.3	43.6	40.9	19	39.7	39.6	39.8	49.1	38.3	38.2	43.0	41.1
4	40.2	39.3	38.8	38.2	39.3	40.3	43.8	40.9	20	39.8	39.6	39.5	49.4	38.3	38.4	43.0	41.1
5	40.1	39.2	39.6	38.2	39.1	40.4	43.6	40.9	21	39.9	39.8	39.3	49.3	38.3	39.4	42.9	41.0
6	39.9	39.2	44.0	38.2	38.9	39.9	43.8	41.0	22	39.8	40.2	39.0	48.8	39.1	39.6	42.4	41.1
7	39.7	39.2	43.9	38.2	38.8	39.9	44.3	40.9	23	39.7	39.8	38.8	48.0	39.3	40.1	42.3	41.1
8	39.8	39.2	42.5	38.1	38.7	39.5	44.0	41.0	24	39.8	39.7	38.7	46.5	39.2	40.5	42.4	40.7
9	40.1	39.2	44.4	38.1	38.7	39.8	43.8	40.9	25	39.7	39.9	38.6	44.2	39.1	41.1	42.6	40.4
10	40.2	39.2	45.2	38.2	38.7	40.0	43.7	40.6	26	39.6	39.9	38.7	42.5	39.6	41.9	42.5	40.6
11	40.3	39.2	45.0	38.2	38.6	39.6	43.8	40.9	27	39.5	39.5	38.7	41.4	39.9	42.4	42.6	40.8
12	39.9	39.2	44.7	38.2	38.6	39.0	43.5	41.0	28	39.3	39.3	38.6	40.6	40.4	42.4	42.6	40.9
13	39.6	39.2	43.8	38.2	38.6	39.0	43.2	41.1	29	39.1	39.2	38.5		40.9	42.5	42.3	41.0
14	39.7	39.2	42.5	38.2	38.5	38.4	43.4	40.5	30	39.1	39.1	38.4		41.2	42.7	42.0	40.8
15	39.7	39.3	41.8	38.2	38.4	38.0	43.5	40.6	31		39.4	38.3		41.4		41.7	
16	39.8	39.3	41.4	42.3	38.4	38.0	43.2	40.7									

Crest Stages:								
	Date	1- 6-59	1- 9-59	2-20-59	5- 3-59	5- 7-59	5-11-59	5-14-59	5-21-59
	Time	8:00 PM	11:30 PM	1:00 AM	5:00 PM	7:00 AM	4:30 PM	10:00 PM	1:00 AM
	Stage	44.6	45.5	49.5	43.8	44.4	43.9	43.5	43.2

E-Estimated NR-No Record

TABLE 260

DAILY MEAN GAGE HEIGHT
COLUSA BASIN DRAIN NEAR COLLEGE CITY

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan	Feb.	Mar	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	25.7	25.3	25.5	25.5	27.3	26.5	27.7	27.0	17	25.7	25.2	27.4	31.6	24.5	23.8	28.2	26.2
2	25.9	25.3	25.4	25.5	26.9	26.4	28.1	26.7	18	25.6	25.3	27.1	33.0	24.5	23.6	28.2	26.4
3	25.9	25.3	25.2	25.5	26.6	26.2	28.2	26.4	19	25.6	25.5	26.8	32.9E	24.5	23.3	28.2	26.5
4	25.9	25.3	25.0	25.5	26.3	26.1	28.3	26.4	20	25.7	25.4	26.4	NR	24.5	23.3	28.1	26.6
5	25.9	25.2	25.1	25.5	26.3	26.1	28.3	26.4	21	25.8	25.5	26.4	NR	24.4	23.9	28.2	26.5
6	25.8	25.2	27.7	25.5	26.2	25.8	28.3	26.4	22	25.7	25.9	26.2	NR	25.1	24.7	27.8	26.5
7	25.6	25.2	28.8	25.0	26.0	25.7	28.8	26.5	23	25.6	25.7	26.1	NR	25.6	24.9	27.6	26.4
8	25.7	25.3	28.3	24.7	25.9	25.6	28.7	26.5	24	25.6	25.6	25.9	NR	25.6	25.1	27.7	26.3
9	25.8	25.3	28.7	24.6	25.8	25.3	28.5	26.4	25	25.7	25.7	25.8	32.1	25.2	25.6	27.8	26.0
10	26.0	25.3	30.1	24.6	25.5	25.8	28.5	26.2	26	25.6	25.7	25.8	30.9	25.4	26.2	27.7	26.1
11	26.0	25.3	30.3	24.6	25.3	25.9	28.5	26.3	27	25.5	25.4	26.0	29.4	25.7	26.9	27.7	26.2
12	25.8	25.3	30.2	24.6	25.1	25.3	28.3	26.5	28	25.4	25.3	26.0	28.1	25.9	27.3	27.8	26.4
13	25.5	25.2	29.8	24.6	24.9	24.8	28.1	26.6	29	25.3	25.2	25.9		26.4	27.3	27.6	26.4
14	25.6	25.2	29.0	24.7	24.7	24.5	28.1	26.4	30	25.2	25.2	25.8		26.5	27.4	27.3	26.2
15	25.6	25.3	28.3	24.6	24.6	24.3	28.3	26.2	31		25.3	25.7		26.8		27.1	
16	25.7	25.2	27.8	26.9	24.6	24.0	28.3	26.2									

Crest Stages:								
Date	1- 7-59	1-11-59	2-18-59	4-27-59	5- 7-59	5-16-59	5-21-59	5-28-59
Time	6:00 AM	7:00 PM	5:30 AM	9:00 PM	3:30 PM	7:00 AM	10:00 AM	10:00 AM
Stage	28.8	30.3	33.0	27.4	28.8	28.4	28.2	27.8

E-Estimated NR-No Record

TABLE 261

DAILY MEAN GAGE HEIGHT
COLUSA BASIN DRAIN AT KNIGHTS LANDING

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	21.3	20.9	20.9	25.7	26.7	23.0	24.9	24.1	17	NR	20.8	26.6	27.6	22.8	23.1	24.4	24.5
2	NR	20.9	21.0	25.6	26.4	23.2	24.7	24.0	18	NR	20.8	26.4	29.0	22.5	22.8	24.3	24.6
3	NR	20.9	21.0	25.5	26.3	23.0	24.3	23.9	19	NR	20.9	26.3	29.3	22.3	22.3	24.2	24.7
4	NR	20.9	20.9	25.5	26.1	22.7	24.2	24.1	20	21.5	21.0	26.2	29.6	22.1	21.9	24.4	24.7
5	NR	20.9	20.4	25.4	26.0	22.5	24.3	24.4	21	21.6	21.1	26.0	29.5	21.8	21.6	24.4	24.6
6	NR	20.8	21.6	25.3	26.0	22.6	24.4	24.5	22	21.6	21.2	26.0	29.5	21.7	21.7	24.2	24.6
7	NR	20.8	23.8	24.7	25.9	22.6	24.4	24.5	23	21.6	21.4	25.8	29.5	21.8	22.0	24.2	24.6
8	NR	20.8	25.7	24.2	25.8	22.6	24.4	24.6	24	21.5	21.3	25.6	29.4	22.0	22.4	24.2	24.6
9	NR	20.9	25.5	23.6	25.7	23.4	24.6	24.7	25	21.5	21.2	25.4	29.2	22.2	23.1	24.2	24.5
10	NR	21.0	27.2	23.7	25.4	24.1	24.6	24.6	26	21.5	21.2	25.5	28.7	22.0	24.1	24.2	24.5
11	NR	21.0	27.6	23.6	25.1	24.4	24.6	24.5	27	21.3	21.2	25.7	28.0	21.9	24.6	24.2	24.5
12	NR	21.0	27.7	23.2	24.8	24.1	24.6	24.6	28	21.2	21.1	25.8	27.1	22.0	24.7	24.2	24.6
13	NR	20.9	27.6	23.0	24.4	23.9	24.5	24.7	29	21.1	21.0	25.8		22.2	24.7	24.2	24.6
14	NR	20.8	27.3	23.0	23.9	23.8	24.6	24.7	30	21.0	20.9	25.8		22.2	24.7	24.1	24.4
15	NR	20.8	27.0	23.4	23.6	23.7	24.6	24.4	31		20.8	25.7		22.6		24.0	
16	NR	20.9	26.7	24.4	23.2	23.4	24.4	24.4									

Crest Stages:								
Date	1-12-59	2-18-59	2-20-59	2-21-59	2-23-59	2-24-59	3- 3-59	3- 4-59
Time	9:00 PM	9:00 AM	9:00 AM	12:00 Mid.	12:00 Noon	1:30 PM	8:00 AM	10:30 AM
Stage	27.6	29.2	29.6	29.5	29.6	29.5	26.4	26.2

E-Estimated NR-No Record

TABLE 262

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT KNIGHTS LANDING

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	19.6	19.4	NR	NR	NR	21.8	18.2	17.0	17	19.6	18.6	NR	NR	22.5	15.1	18.7	15.8
2	19.6	19.4	NR	NR	NR	22.4	18.4	16.8	18	19.6	18.6	NR	NR	22.2	15.3	18.5	15.8
3	19.6	19.4	NR	NR	NR	22.2	18.8	16.4	19	19.5	18.5	NR	NR	22.0	15.7	18.4	15.7
4	19.5	19.4	NR	NR	NR	21.8	18.6	16.0	20	19.5	18.6	NR	NR	21.9	15.8	18.3	15.7
5	19.3	19.4	NR	NR	NR	21.5	18.5	15.9	21	19.5	18.7	NR	NR	21.6	16.0	18.2	15.8
6	19.2	19.4	NR	NR	NR	21.3	18.5	15.9	22	19.5	18.6	NR	NR	21.5	15.8	18.0	15.8
7	19.1	19.3	NR	NR	26.7	20.8	18.4	16.2	23	19.5	18.6	NR	NR	21.4	15.6	17.8	15.6
8	19.1	19.2	NR	NR	26.1	20.3	18.4	16.2	24	19.5	18.7	NR	NR	21.6	15.9	18.0	15.6
9	19.1	19.3	NR	NR	25.5	19.3	18.4	16.2	25	19.5	18.7	NR	NR	21.8	16.3	17.8	15.6
10	19.1	19.4	NR	NR	25.2	18.1	18.4	16.1	26	19.5	18.7	NR	NR	21.7	16.8	17.8	15.7
11	19.2	19.3	NR	NR	24.2	17.7	18.3	15.9	27	19.5	18.7	NR	NR	21.5	18.1	17.6	15.9
12	19.4	19.2	NR	NR	24.5	17.6	18.2	15.8	28	19.5	18.8	NR	NR	21.6	19.1	17.6	16.3
13	19.5	19.0	NR	NR	24.0	17.2	18.1	15.8	29	19.4	19.2	NR		21.6	19.1	17.6	16.5
14	19.4	18.8	NR	NR	23.6	16.7	18.1	15.9	30	19.4	19.0	NR		21.6	18.6	17.5	16.6
15	19.4	18.7	NR	NR	23.3	16.2	18.4	16.0	31		18.6	NR		21.4		17.3	
16	19.6	18.7	NR	NR	22.9	15.6	18.5	15.9									

Stages:			
Crest	Date	2-20-59	4- 2-59
	Time		6:30 PM
	Stage	37.6	22.5

E-Estimated NR-No Record

TABLE 263

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT FREMONT WEIR, EAST END

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1									17								
2									18				a 34.3				
3									19				35.3				
4									20				35.2				
5									21				34.8				
6									22				34.6				
7									23				34.4				
8									24				34.3				
9									25				34.1				
10									26				33.8				
11									27				a 33.6				
12									28								
13									29								
14									30								
15									31								
16																	

Stages:		
Crest	Date	2-19-59
	Time	8:00 PM
	Stage	35.5

E-Estimated NR-No Record

a Mean gage height for partial day period of flow to Yolo Bypass via Fremont Weir.

TABLE 264

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT FREMONT WEIR, WEST END

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr	May	June
1	17.3	17.2	16.4	28.6	31.4	20.6	16.6	15.1	17	17.5	16.6	29.7	29.8	20.7	14.2	16.9	13.8
2	17.4	17.2	16.3	28.4	NR	20.8	16.8	14.9	18	17.4	16.6	27.9	34.1	20.4	14.3	16.7	13.8
3	17.4	17.2	16.2	27.4	NR	20.5	17.1	14.4	19	17.3	16.5	26.2	36.1	20.2	14.5	16.6	13.7
4	17.2	17.3	16.1	25.6	NR	20.3	17.0	14.1	20	17.3	16.5	25.2	36.1	20.0	14.6	16.4	13.7
5	17.0	17.2	16.1	23.8	NR	20.1	16.8	13.9	21	17.4	16.5	24.3	35.6	19.7	14.7	16.2	13.8
6	17.0	17.3	16.7	22.5	NR	20.0	16.8	13.9	22	17.4	16.4	23.5	35.4	19.6	14.6	16.1	13.7
7	16.9	17.2	20.2	21.8	24.5E	19.6	16.7	14.2	23	17.4	16.5	22.9	35.2	19.7	14.3	15.9	13.6
8	16.9	17.1	22.1	21.3	23.9E	19.1	16.7	14.2	24	17.4	16.7	22.6	35.0	20.0	14.6	16.0	13.5
9	16.9	17.2	22.1	20.7	23.4	18.1	16.6	14.2	25	17.4	16.6	22.5	34.8	20.2	14.9	16.0	13.5
10	17.0	17.2	26.4	20.5	23.0E	16.9	16.7	14.1	26	17.4	16.5	23.1	34.6	19.8	15.4	15.9	13.6
11	17.1	17.2	29.3	21.6	22.7E	16.5	16.6	13.9	27	17.4	16.7	24.8	34.1	19.8	16.7	15.8	13.8
12	17.3	17.1	29.5	22.9	22.4E	16.6	16.5	13.8	28	17.3	16.9	25.2	33.2	19.9	17.6	15.8	14.2
13	17.3	16.9	30.2	22.5	22.0E	16.2	16.4	13.7	29	17.3	17.2	25.4		19.9	17.4	15.8	14.3
14	17.2	16.7	32.7	21.6	21.7E	15.7	16.5	13.8	30	17.3	16.9	27.6		19.7	17.0	15.7	14.4
15	17.3	16.6	32.7	21.1	21.4	15.3	16.7	13.9	31		16.4	28.3		19.9		15.4	
16	17.5	16.6	31.5	22.5	21.0	14.7	16.8	13.8									

Crest Stages:							
Date	1-14-59	1-28-59	2- 1-59	2-12-59	2-19-59	3-25-59	4- 2-59
Time	10:00 PM	2:30 AM	4:15 PM	4:30 AM	8:30 PM	4:00 AM	3:30 AM
Stage	33.0	25.3	28.7	22.9	36.3	20.2	20.9

E-Estimated NR-No Record

TABLE 265

DAILY MEAN GAGE HEIGHT
SUTTER BYPASS AT RECLAMATION DISTRICT 1500 PUMPING PLANT

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar	Apr	May	June		Nov	Dec	Jan	Feb	Mar	Apr.	May	June
1	15.3	15.5	15.1	26.3	30.8	19.3	15.6	14.3E	17	15.8	15.0	29.0	27.1	19.3	13.6	16.0	12.7
2	15.4	15.5	15.0	26.9	29.2	19.4	15.7	14.1E	18	15.7	14.9	27.7	33.2	19.1	13.6	15.9	12.8
3	15.4	15.6	14.8	26.4	27.8	19.3	16.1	13.7E	19	15.6	14.9	26.5	36.0	18.9	13.7	15.7	12.8
4	15.3	15.6	14.7	24.8	26.8	19.1	16.0	13.3E	20	15.6	14.9	25.2	36.0	18.6	13.8	15.5	12.8
5	15.2	15.5	14.8	22.4	25.8	19.0	15.9	13.1E	21	15.6	14.9	23.7	35.4	18.4	13.8	15.4	12.8
6	15.1	15.6	15.4	20.6	24.6	18.9	15.8	13.1E	22	15.7	14.6	22.2	35.0	18.2	13.7	15.3	12.9
7	15.1	15.5	18.0	19.8	23.6	18.7	15.8	13.2	23	15.7	14.8	21.2	34.8	18.3	13.5	15.0	12.8
8	15.1	15.4	19.7	19.2	22.8	18.3	15.8	13.1	24	15.7	15.1	20.7	34.6	18.7	13.7	15.0	12.5
9	15.1	15.5	19.8	18.8	22.3	17.3	15.7	13.1	25	15.7	15.1	20.5	34.3	18.9	13.9	15.1	12.4
10	15.2	15.6	23.5	18.6	21.9	16.1	15.7	13.0	26	15.7	15.1	21.2	33.9	18.5	14.3	15.1	12.3
11	15.3	15.5	26.5	20.2	21.6	15.7	15.7	12.9	27	15.7	15.3	22.4	33.3	18.5	15.7	15.2	12.4
12	15.6	15.4	27.3	21.6	21.2	16.0	15.6	12.8	28	15.6	15.5	22.7	32.4	18.7	16.5	15.1	12.6
13	15.6	15.3	28.9	21.0	20.8	15.4	15.6	12.7	29	15.6	15.8	22.8		18.6	16.2	15.1	12.7
14	15.5	15.1	31.2	19.9	20.4	15.0	15.7	12.7	30	15.5	15.5	24.3		18.4	15.8	15.0	12.7
15	15.5	15.0	31.4	19.2	20.1	14.6	15.9	12.8	31		15.0	25.4		18.8		14.6	
16	15.8	15.0	30.5	20.4	19.7	14.0	16.0	12.8									

Crest Stages:								
Date	1- 8-59	1-15-59	2- 2-59	2-12-59	2-19-59	3-25-59	4- 2-59	4-12-59
Time	10:00 AM	2:00 AM	2:00 PM	3:00 AM	9:00 PM	2:30 Am	2:00 AM	12:00 Mid.
Stage	19.7	31.6	26.9	21.7	36.3	19.0	19.5	16.7

E-Estimated NR-No Record

TABLE 266

DAILY MEAN GAGE HEIGHT
BUTTE SLOUGH AT MAWSON BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	40.5	40.0	40.9	46.3	50.1	42.0	42.1	42.0	17	40.1	39.7	49.9	48.4	42.2	41.0	42.5	42.3
2	40.4	40.0	40.8	46.0	48.8	42.0	42.3	42.3	18	40.0	40.0	48.6	56.0	42.0	41.1	42.4	42.2
3	40.4	40.0	40.7	45.5	47.8	41.7	42.4	42.2	19	39.9	40.7	47.6	57.2	41.9	41.1	42.5	42.4
4	40.2	40.1	40.6	45.2	47.2	41.4	42.4	42.0	20	40.0	40.9	47.0	56.2	41.7	41.2	42.4	42.4
5	40.0	40.2	40.4	44.9	46.6	41.1	42.5	42.3	21	40.0	41.2	46.4	55.3	41.4	41.0	42.3	42.4
6	40.0	40.2	41.0	44.6	46.2	40.8	42.5	42.4	22	40.0	41.6	46.0	55.2	41.4	40.7	42.4	42.4
7	39.9	40.0	44.0	44.3	45.7	40.5	42.4	42.2	23	40.0	41.7	45.7	55.6	41.3	40.6	42.3	42.3
8	39.9	40.1	44.6	43.8	45.3	40.0	42.3	42.3	24	39.9	41.8	45.5	55.2	41.3	40.7	42.3	42.2
9	39.9	40.2	44.9	43.4	45.0	40.2	42.2	42.1	25	40.0	41.8	45.4	54.6	41.5	41.0	42.4	42.0
10	39.8	40.2	46.0	43.2	44.8	41.1	42.3	42.2	26	40.0	41.8	45.7	53.8	41.4	41.2	42.4	41.5
11	39.9	40.0	46.5	43.1	44.5	41.2	42.7	42.2	27	40.0	41.7	45.8	52.6	41.2	42.0	42.4	41.4
12	40.0	39.9	47.0	43.6	44.2	41.1	42.5	42.2	28	40.0	41.4	45.7	51.4	41.3	41.9	42.4	41.4
13	40.0	39.8	47.6	43.7	43.7	41.1	42.3	42.2	29	40.0	41.4	45.6		41.1	41.9	42.4	41.5
14	40.0	39.8	50.4	43.4	43.1	40.9	42.3	42.2	30	40.0	41.2	45.4		41.0	41.9	42.4	41.6
15	40.0	39.7	51.8	43.5	42.7	41.2	42.4	42.2	31		41.0	45.9		41.1		42.1	
16	40.1	39.7	51.0	44.9	42.4	41.2	42.6	42.2									

Crest Stages:								
Date	1- 8-59	1-15-59	1-27-59	2- 1-59	2-13-59	2-19-59	2-23-59	5-11-59
Time	3:00 AM	2:00 AM	3:00 AM	3:00 PM	3:00 AM	6:00 AM	9:00 AM	7:15 PM
Stage	44.9	52.0	45.9	46.3	43.8	57.3	55.6	42.7

E - Estimated NR - No Record

TABLE 267

DAILY MEAN GAGE HEIGHT
SUTTER BYPASS AT LONG BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1				40.4	NR	39.5	40.7	40.8	17			NR	40.9		40.5	41.1	41.0
2				40.3	NR	39.6	40.8	40.8	18			42.2	47.2	39.1	40.5	41.0	40.9
3				39.8	42.1	39.5	40.8	40.8	19			41.4	48.3	39.1	40.6	41.0	41.0
4				39.3	41.5	39.4	40.8	40.8	20			40.8	47.7	39.0	40.5	40.9	41.1
5					41.0	39.4	40.8	40.9	21			40.3	47.0	39.0	40.4	40.9	41.2
6					40.5	39.4	40.8	41.0	22			40.0	46.9	39.1	40.2	40.9	41.2
7					40.0	39.5	40.8	41.0	23			39.6	47.2	39.0	40.1	40.9	41.1
8					39.6	39.4	41.0	41.0	24			39.4	47.0	39.0	40.2	40.9	41.2
9					39.2	39.4	41.0	40.9	25			39.3	46.6	39.1	40.3	40.9	41.1
10			39.1			39.8	41.1	40.9	26			39.5	46.1	39.1	40.3	40.9	40.8
11			40.3			39.9	41.2	41.0	27			39.8	45.4	39.0	40.6	40.9	40.8
12			40.8			40.2	41.0	41.0	28			39.8	NR	39.2	40.4	40.9	40.8
13			41.3			40.3	41.0	41.0	29			39.6		39.3	40.5	40.9	40.8
14			NR			40.3	41.0	41.0	30			39.5		39.3	40.5	40.9	40.9
15			NR			40.6	41.0	41.0	31			39.8		39.3		40.8	
16			NR			40.5	41.2	40.9									

Crest Stages.								
Date	2- 1-59	2-19-59	2-23-59	4-15-59	4-19-59	4-27-59	5-11-59	6-22-59
Time	1:00 PM	9:00 AM	10:00 AM	6:30 PM	5:30 PM	5:30 PM	7:00 AM	10:00 AM
Stage	40.5	48.4	47.2	40.6	40.6	40.7	41.2	41.3

E - Estimated NR - No Record

TABLE 268

DAILY MEAN GAGE HEIGHT
WADSWORTH CANAL AT BUTTE HOUSE ROAD

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June
1	50.2	48.2	45.9	42.3	43.1	50.0	52.4	52.2	17	49.5	44.8	42.7	47.4	45.6	51.0	52.4	51.8
2	50.0	48.2	45.9	42.3	43.0	49.6	52.4	51.9	18	a 49.1	a 45.1	42.6	47.3	a 46.0	50.4	52.4	a 52.0E
3	50.0	48.2	45.9	42.3	43.0	49.8	52.5	52.0	19	48.3	45.9	42.5	46.5	48.7	50.4	52.3	52.1
4	50.1	a 47.8	45.9	42.3	42.9	49.6	52.4	51.9	20	48.3	45.9	42.5	45.5	49.4	50.6	52.5	52.2
5	50.1	47.1	44.3	42.3	42.9	49.5	52.4	51.9	21	48.3	45.9	42.4	45.4	49.5	50.8	52.3	52.2
6	50.2	47.1	42.4	42.2	42.8	a 49.6	52.6	51.9	22	48.2	45.9	42.4	44.7	49.7	50.0	52.0	52.2
7	50.2	47.1	42.4	42.2	42.7	50.1	52.5	51.8	23	48.2	45.9	42.4	44.5	49.9	50.6	52.2	52.2
8	50.1	47.1	42.3	42.2	42.7	50.2	52.3	51.8	24	48.2	45.9	42.4	44.2	49.8	51.2	52.2	52.2
9	49.9	47.1	42.8	42.2	a 42.9	50.2	52.4	51.8	25	48.2	45.9	42.4	43.9	49.6	52.0	52.3	52.2
10	50.0	47.1	42.7	42.2	43.1	a 50.7	52.4	51.7	26	48.2	45.9	42.4	43.6	49.8	52.6	52.2	52.2
11	49.7	47.1	42.6	42.4	43.1	51.0	52.4	51.4	27	48.2	45.9	42.4	43.3	49.9	52.3	52.4	52.4
12	49.5	a 46.0	43.0	42.3	43.1	50.9	52.2	51.5E	28	48.2	45.9	42.4	43.2	49.8	52.0	52.3	52.3
13	49.5	44.8	43.1	42.3	43.1	50.7	52.2	51.5E	29	48.2	45.9	42.4		49.9	52.1	52.3	52.3
14	49.5	44.8	42.9	42.2	43.0	50.5	52.4	51.6E	30	48.2	45.9	42.3		50.1	52.2	52.3	52.4
15	49.5	44.8	42.8	42.3	43.0	50.6	52.5	51.7E	31		45.9	42.3		50.1		52.3	
16	49.5	44.8	42.7	44.8	a 44.3	a 50.6	52.4	51.7E									

Crest Stages.				
	Date	2-16-59	2-17-59	4-26-59
	Time	10:00 AM	2:00 PM	2:30 PM
	Stage	46.6	49.5	52.7

E-Estimated NR-No Record

a Board Change

TABLE 269

DAILY GAGE HEIGHT*
SUTTER BYPASS AT STATE PUMPING PLANT 3

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May *	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	39.1	38.7	38.9	34.5	41.3	37.9	38.8	38.4	17	a 38.7	38.5	39.4	36.4	32.9	38.2	38.4	38.5
2	39.1	38.7	38.9	34.9	38.8	37.9	38.6	38.6	18	38.7	38.6	38.2	45.0	33.4	38.0	38.4	38.6
3	39.1	38.7	38.9	34.3	37.4	37.9	38.5	38.6	19	38.7	38.8	36.8	45.4	35.0	38.0	38.5	38.6
4	39.1	38.7	38.9	33.8	36.3	37.8	38.4	38.4	20	38.7	38.8	35.9	45.0	36.9	38.0	38.5	38.6
5	39.2	38.8	38.8	33.6	35.6	37.7	38.4	38.4	21	38.7	39.0	35.2	44.6	37.2	38.0	38.4	38.6
6	39.1	38.8	38.3	33.4	35.1	37.7	38.4	38.3	22	38.7	39.0	34.8	b 43.8	37.2	38.0	38.3	38.5
7	a 39.1	38.8E	38.7	33.4	34.6	37.8	38.4	38.3	23	38.7	39.0	34.4	44.2	37.3	37.9	38.3	38.6
8	39.0E	38.8	38.8	33.4	34.1	38.0	38.4	38.4	24	38.7	39.0	34.2	a 43.9	37.3	37.5	38.3	38.4
9	39.0E	38.8	36.4	33.3	34.0	38.2	38.4	38.6	25	38.6	39.1	34.0	43.4	37.3	37.5	38.4	38.4
10	39.0	38.6	34.2	33.0	33.4	38.8	38.4	38.6	26	38.6	39.1	34.0	43.0	37.4	38.4	38.4	38.5
11	39.0E	38.2	34.7	33.0	33.2	38.8	38.6	38.6	27	38.6	39.0	34.2	42.3	37.8	38.6	38.5	38.4
12	38.9	38.2	35.6	33.0	33.1	38.5	38.6	38.5	28	38.7	39.0	34.2	41.6	37.8	38.6	38.4	38.4
13	38.8	38.4	36.2	32.9	33.1	38.4	38.4	38.5	29	38.7	39.0	34.0		37.8	38.6	38.4	38.4
14	38.8	38.5	37.3	32.8	33.0	38.4	38.4	38.5	30	38.7	39.0	34.0		37.9	38.7	38.5	38.4
15	38.2	38.5	39.9	32.8	32.9	38.4	38.4	38.5	31		39.0	34.0		37.9		38.4	
16	38.7	38.5	40.6	33.6	32.9	38.4	38.4	38.5									

Crest Stages:	
	Date
	Time
	Stage

E-Estimated NR-No Record

* Average of two daily staff gage readings.
a Individual daily staff gage reading.
b Average of four daily staff gage readings.

TABLE 270

DAILY GAGE HEIGHT*
SUTTER BYPASS AT STATE PUMPING PLANT 2

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	27.9	28.4	25.0	33.5	34.6	28.5	29.6	29.0	17	27.6	28.5	34.0	31.4	26.7	29.0	28.9	29.2
2	27.9	28.4	25.2	32.8	33.8	28.4	29.4	28.6	18	27.6	28.5	33.6	36.4	26.0	28.9	28.[illegible]	29.4
3	27.9	28.4	25.5	32.0	33.1	28.4	28.6	28.7	19	27.8	28.5	33.0	40.8	25.4	28.8	28.8	29.4
4	27.8	28.4	25.4	31.3	32.6	28.4	28.6	28.9	20	28.0	28.4	32.4	40.8	25.4	28.4	28.8	29.5
5	27.6	28.4	25.8	30.6	32.2	28.3	28.4	28.9	21	28.2	28.4	32.1	39.6	26.2	28.3	28.8	29.4
6	27.7	28.3	26.2	29.3	32.0	28.2	28.4	28.9	22	28.4	28.4	31.8	39.2	27.0	28.0	28.4	29.4
7	27.6	28.3	26.5	28.2	31.4	28.0	28.5	28.9	23	28.5	28.4	31.2	39.4	27.8	27.7	28.4	29.4
8	27.8	28.2	27.5	27.6	30.9	28.4	28.3	29.0	24	28.6	28.5	30.4	39.2	28.4	27.4	29.1	29.4
9	27.8	28.2	29.2	27.2	30.3	28.7	28.4	29.1	25	28.7	28.2	29.8	38.7	28.4	27.2	29.4	29.5
10	28.0	28.4	29.0	27.0	29.2	29.0	28.4	29.2	26	28.7	28.1	29.2	38.0	28.4	27.7	29.5	29.5
11	27.8	28.8	31.4	27.0	28.5	29.6	28.5	29.2	27	28.6	28.0	29.2	37.0	28.3	28.9	29.4	29.4
12	27.7	28.7	32.9	27.0	28.0	29.4	28.8	28.8	28	28.6	28.0	29.2	35.7	28.4	29.4	29.2	29.4
13	27.6	28.6	32.5	27.1	27.6	29.2	28.8	28.9	29	28.5	28.0	29.2		28.4	29.6	29.0	29.5
14	27.6	28.6	34.6	27.2	27.2	29.0	28.9	29.0	30	28.4	27.6	29.6		28.5	29.5	28.8	29.5
15	27.6	28.5	35.0	27.0	27.0	28.8	28.9	29.1	31		27.6	32.9		28.5		29.1	
16	27.6	28.5	34.5	27.8	26.8	29.0	28.9	29.1									

Crest Stages:	Date	Time	Stage

E - Estimated NR - No Record

* Average of two daily staff gage readings.

TABLE 271

DAILY GAGE HEIGHT*
SUTTER BYPASS AT STATE PUMPING PLANT 1

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	27.8	28.3	23.8	32.0	33.6	28.3	29.2	28.6	17	27.6	28.4	32.3	29.5	23.8	29.0	28.8	29.2
2	27.8	28.3	22.6	32.0	32.6	28.3	28.6	28.4	18	27.6	28.4	32.1	34.6	23.5	29.0	28.8	29.4
3	27.7	28.3	22.4	31.3	32.2	28.2	28.2	28.4	19	27.6	28.5	31.9	a 39.0	23.6	28.8	28.8	29.4
4	27.6	28.2	22.3	30.4	31.7	28.3	28.4	28.6	20	27.6	28.6	31.7	a 39.6	24.6	28.5	28.8	29.4
5	27.6	28.2	22.4	29.1	31.4	28.2	28.5	28.8	21	27.6	28.4	31.4	38.4	26.0	28.3	28.6	29.4
6	27.6	28.2	23.4	28.1	31.2	28.2	28.6	28.8	22	27.7	28.4	31.0	38.0	27.0	28.1	28.4	29.4
7	27.7	28.2	25.3	26.9	30.9	28.1	28.4	28.8	23	27.7	28.4	30.3	38.1	27.8	27.7	28.3	29.4
8	27.7	28.2	26.9	25.6	30.3	28.4	28.3	29.0	24	27.7	28.5	29.7	38.0	28.4	27.3	28.9	29.4
9	27.8	28.4	27.4	24.8	29.5	28.8	28.4	29.0	25	27.7	28.4	28.5	37.6	28.3	27.2	29.1	29.4
10	28.0	28.6	28.2	24.6	28.7	29.0	28.4	29.1	26	27.7	28.2	28.0	37.0	28.3	27.9	29.0	29.4
11	27.8	28.8	29.8	24.4	27.8	29.6	28.4	29.0	27	27.7	28.0	27.7	36.2	28.2	28.8	28.8	29.4
12	27.7	28.8	31.9	24.4	26.8	29.4	28.6	28.8	28	27.8	28.1	27.6	35.0	28.3	29.4	28.8	29.4
13	27.6	28.8	31.8	24.6	25.8	29.2	28.8	28.8	29	28.0	28.0	27.6		28.4	29.4	28.6	29.5
14	27.5	28.6	32.6	24.6	24.7	29.0	28.8	28.9	30	28.2	28.0	28.2		28.3	29.2	28.6	29.5
15	27.6	28.6	33.8	24.5	24.0	28.8	28.8	29.0	31		27.2	31.2		28.3		28.8	
16	27.6	28.4	33.2	25.0	23.8	29.0	28.8	29.0									

Crest Stages:	Date	Time	Stage

E - Estimated NR - No Record

* Average of two daily staff gage readings.
a Individual daily staff gage reading.

TABLE 272

DAILY MEAN GAGE HEIGHT
FEATHER RIVER NEAR OROVILLE

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	9.1	9.3	9.7	11.2	14.0	16.0	13.1	9.0	17	9.1	9.4	12.4	32.7	14.8	12.9	11.3	8.6
2	9.0	9.3	9.7	11.1	14.6	16.3	13.0	8.8	18	9.4	9.3	11.9	29.1	14.9	12.7	10.9	8.6
3	8.8	9.3	9.6	11.0	15.4	16.6	12.6	8.8	19	9.5	9.4	11.6	25.5	14.9	12.6	10.1	8.5
4	8.8	9.3	9.5	10.8	15.0	16.9	12.4	8.8	20	9.4	6.8	11.3	22.1	14.6	12.5	10.0	8.5
5	8.9	9.3	9.9	10.7	14.1	17.1	12.1	8.9	21	9.5	6.9	11.0	20.5	14.7	12.5	9.9	8.4
6	9.2	9.3	11.8	10.7	15.8	17.2	11.9	8.8	22	9.4	9.3	11.8	18.9	15.2	12.5	9.9	8.4
7	9.2	9.2	10.7	10.6	15.5	17.2	11.9	8.7	23	9.4	9.5	10.8	16.4	15.5	12.5	10.2	8.3
8	9.1	9.4	11.3	10.6	15.4	16.0	11.9	8.6	24	9.4	9.4	10.8	15.7	15.8	12.6	10.2	8.2
9	9.2	9.5	21.2	10.6	15.3	14.0	11.9	8.4	25	9.3	9.8	12.0	14.9	14.8	12.9	10.1	8.3
10	9.7	9.2	21.0	11.8	15.3	13.8	11.9	8.3	26	9.0	9.8	12.5	13.8	15.4'	15.5	9.9	8.3
11	10.1	9.2	19.2	11.8	15.1	14.4	11.9	8.3	27	9.1	11.5	11.9	13.8	15.1	14.5	10.3	8.2
12	9.7	9.2	29.6	11.4	14.9	13.9	11.8	8.2	28	9.2	10.5	13.3	13.8	15.4	13.1	10.2	8.2
13	9.6	9.1	26.0	11.0	15.2	13.7	11.9	8.2	29	9.1	9.6	12.4		14.5	12.9	9.7	8.2
14	10.4	9.4	18.6	10.8	15.1	13.5	11.9	8.1	30	9.3	9.0	11.9		16.1	12.9	9.2	8.4
15	10.0	9.4	14.7	11.0	14.9	13.3	11.8	8.2	31		9.8	11.5		16.2		9.2	
16	9.6	9.3	13.0	25.8	14.7	13.0	11.5	8.4									

Crest Stages:						
Date	12-27-58	1- 9-59	1-12-59	1-28-59	2-10-59	2-16-59
Time	8:30 AM	1:00 PM	2:00 PM	4:00 AM	4:00 PM	4:30 PM
Stage	12.3	25.1	37.6	13.6	13.6	36.6

E-Estimated NR-No Record

TABLE 273

DAILY MEAN GAGE HEIGHT
FEATHER RIVER NEAR GRIDLEY

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	77.7	78.1	78.3	78.6	79.3	79.6	77.9	76.2	17	78.2	78.1	79.1	86.6	79.4	77.9	77.4	75.0
2	77.7	78.1	78.3	78.6	79.4	79.7	78.0	76.1	18	78.2	78.1	78.9	85.4	79.4	77.8	77.4	75.4
3	77.7	78.1	78.2	78.5	79.7	79.8	77.9	75.9	19	78.2	78.1	78.8	84.0	79.4	77.7	77.0	75.4
4	77.6	78.0	78.2	78.5	79.8	79.9	77.8	75.7	20	78.2	77.6	78.7	82.3	79.2	77.7	77.0	75.4
5	77.7	78.0	78.3	78.4	79.4	79.9	77.7	75.7	21	78.2	77.3	78.6	81.8	79.3	77.6	76.9	75.3
6	77.7	78.1	78.9	78.4	79.7	80.0	77.6	75.7	22	78.2	77.8	78.6	81.2	79.4	77.6	76.8	75.2
7	77.8	78.1	78.7	78.4	79.7	80.0	77.6	75.6	23	78.2	78.1	78.5	80.4	79.5	77.6	76.9	75.2
8	77.9	78.1	78.8	78.4	79.7	79.7	77.6	75.4	24	78.2	78.1	78.5	80.0	79.6	77.6	77.0	75.0
9	78.1	78.2	80.8	78.4	79.7	79.0	77.6	75.2	25	78.2	78.2	78.7	79.8	79.3	77.6	77.0	74.9
10	78.2	78.1	81.9	78.6	79.7	78.8	77.6	75.1	26	78.1	78.3	79.0	79.4	79.4	78.3	76.9	74.9
11	78.4	78.1	81.0	78.8	79.6	78.8	77.5	75.1	27	78.1	78.7	78.8	79.3	79.4	78.5	77.0	75.0
12	78.3	78.1	83.5	78.6	79.6	78.8	77.6	75.0	28	78.1	78.6	79.1	79.3	79.4	78.0	77.1	74.9
13	78.2	78.0	84.7	78.6	79.6	78.6	77.6	74.9	29	78.0	78.4	79.0		79.3	77.8	77.0	74.9
14	78.5	78.1	81.5	78.5	79.6	78.5	77.6	74.8	30	78.1	77.9	78.8		79.5	77.8	76.6	75.0
15	78.4	78.1	80.2	78.5	79.5	78.3	77.6	74.8	31		78.3	78.7		79.7		76.4	
16	78.3	78.1	79.4	81.6	79.5	78.1	77.5	74.8									

Crest Stages:								
Date	1- 9-59	1-12-59	2-17-59	2-18-59	2-21-59	3- 4-59	3-31-59	4- 6-59
Time	11:00 PM	8:30 PM	8:00 PM	9:00 PM	1:00 AM	2:00 AM	6:00 AM	9:00 AM
Stage	82.6	86.9	87.3	85.2	82.2	80.0	79.9	80.1

E-Estimated NR-No Record

TABLE 274

DAILY MEAN GAGE HEIGHT
FEATHER RIVER AT YUBA CITY

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	42.1	42.5	42.6	43.7	45.0	45.6	42.7	40.4	17	42.7	42.4	44.8	55.3	45.0	42.8	42.0	39.0
2	42.2	42.5	42.6	43.5	45.1	45.5	42.9	40.2	18	42.6	42.4	44.4	57.2	45.0	42.6	41.8	39.2
3	42.2	42.5	42.6	43.4	45.4	45.7	42.8	40.1	19	42.7	42.4	44.2	56.0	45.0	42.5	41.5	39.3
4	42.1	42.5	42.6	43.3	45.7	45.8	42.6	40.0	20	42.7	42.3	43.9	52.0	44.9	42.4	41.1	39.2
5	42.1	42.5	42.7	43.3	45.2	45.9	42.4	39.7	21	42.7	41.5	43.8	49.9	44.9	42.3	41.0	39.3
6	42.2	42.4	43.2	43.2	45.2	46.0	42.2	39.8	22	42.7	42.6	43.6	48.6	45.0	42.2	40.8	39.3
7	42.3	42.4	43.6	43.2	45.6	45.9	42.2	39.8	23	42.7	42.4	43.5	47.2	45.2	42.1	40.9	39.1
8	42.3	42.4	43.4	43.1	45.5	45.7	42.1	39.7	24	42.7	42.4	43.4	46.3	45.5	42.2	41.1	39.0
9	42.5	42.5	44.7	43.1	45.4	44.8	42.1	39.7	25	42.7	42.4	43.6	45.8	45.1	42.2	41.1	39.0
10	42.6	42.5	48.2	43.3	45.4	44.3	42.1	39.5	26	42.6	42.6	44.5	45.4	44.9	42.9	41.0	38.9
11	42.7	42.4	47.0	45.2	45.3	44.3	42.1	39.4	27	42.5	42.9	44.3	45.0	45.3	44.2	41.0	39.0
12	42.9	42.4	47.6	44.4	45.2	44.3	42.1	39.2	28	42.6	43.4	44.3	45.0	45.0	43.2	41.2	39.0
13	42.7	42.4	53.2	44.0	45.2	44.0	42.2	39.1	29	42.5	43.0	44.5		45.1	42.8	41.1	39.0
14	42.7	42.3	50.0	43.6	45.3	43.8	42.3	39.2	30	42.5	42.5	44.1		45.0	42.7	40.7	38.9
15	43.0	42.4	46.8	43.4	45.2	43.5	42.2	39.2	31		42.5	43.9		45.8		40.5	
16	42.8	42.4	45.4	46.0	45.1	43.2	42.1	39.1									

Crest Stages:	Date	1-10-59	1-13-59	2-11-59	2-18-59	3- 4-59	3-24-59	3-31-59	4- 5-59
	Time	11:45 AM	1:45 PM	10:00 AM	11:00 AM	9:00 AM	10:00 AM	11:45 AM	3:30 PM
	Stage	48.5	53.7	45.6	57.3	45.8	45.6	46.0	46.0

E-Estimated NR-No Record

TABLE 275

DAILY MEAN GAGE HEIGHT
YUBA RIVER AT ENGLEBRIGHT DAM

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	NF	NF	NF	27.6	28.2	28.3	28.0	27.4	17	NF	NF	27.8	30.9	28.0	28.0	27.7	NF
2	NF	NF	NF	27.6	28.3	28.4	28.1	27.4	18	NF	NF	27.8	30.4	28.1	28.0	27.7	NF
3	NF	NF	NF	27.5	28.4	28.4	28.0	27.4	19	NF	NF	27.6	30.3	28.0	27.9	27.6	a 27.0
4	NF	NF	NF	27.5	28.3	28.4	27.9	27.4	20	NF	NF	27.6	29.4	28.0	27.9	27.6	27.1
5	NF	NF	NF	27.4	28.3	28.5	27.8	27.4	21	NF	NF	27.5	29.0	28.0	27.9	27.6	27.2
6	NF	NF	NF	27.4	28.2	28.5	27.8	27.3	22	NF	NF	27.4	28.6	28.0	27.9	27.6	27.2
7	NF	NF	NF	27.4	28.2	28.5	27.8	27.3	23	NF	NF	27.4	28.4	28.2	27.9	27.6	27.1
8	NF	NF	NF	27.3	28.2	28.3	27.8	27.3	24	NF	NF	27.4	28.2	28.2	27.9	27.7	27.0
9	NF	NF	NF	27.3	28.2	28.2	27.8	27.2	25	NF	NF	27.7	28.2	28.1	28.0	27.7	NF
10	NF	NF	NF	27.6	28.1	28.2	27.8	27.2	26	NF	NF	28.1	28.1	28.1	28.4	27.6	NF
11	NF	NF	NF	28.2	28.1	28.2	27.8	27.2	27	NF	NF	27.9	28.1	28.2	28.3	27.6	NF
12	NF	NF	a 29.9	27.8	28.1	28.2	27.9	27.1	28	NF	NF	28.0	28.1	28.1	28.1	27.6	NF
13	NF	NF	30.0	27.7	28.1	28.2	28.1	a 27.0	29	NF	NF	28.0		28.1	28.0	27.5	NF
14	NF	NF	28.8	27.6	28.1	28.1	28.0	NF	30	NF	NF	27.8		28.2	28.0	27.5	NF
15	NF	NF	28.3	27.5	28.1	28.1	27.9	NF	31		NF	27.7		28.4		27.5	
16	NF	NF	28.0	28.9	28.0	28.0	27.8	NF									

Crest Stages.	Date	1-12-59	2-16-59
	Time	11:30 PM	11:00 PM
	Stage	30.9	31.6

E-Estimated NR-No Record

a Indicates mean gage height for partial day spill over Englebright Dam.

TABLE 276

DAILY MEAN GAGE HEIGHT
YUBA RIVER NEAR MARYSVILLE

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	NR	61.1	NR	62.7	63.8	NR	62.8	NR	17	NR	60.8	63.2	68.8	63.5	63.0	NR	60.3
2	NR	61.1	NR	NR	63.9	NR	62.9	NR	18	NR	60.8	53.0	68.4	63.5	62.8	NR	60.0
3	NR	61.1	NR	NR	64.0	NR	62.8	NR	19	NR	60.8	62.8	67.6	63.4	62.7	NR	59.9
4	NR	61.1	NR	NR	64.0	NR	62.6	NR	20	NR	60.8	62.7	65.8	63.4	62.4	NR	59.8
5	NR	61.1	NR	NR	63.9	NR	62.5	NR	21	NR	60.8	62.5	65.5	63.3	62.6	NR	59.8
6	NR	61.1	NR	NR	63.8	NR	62.4	NR	22	61.2	60.8	62.4	65.0	63.2	62.6	NR	59.8
7	NR	61.1	NR	NR	NR	NR	62.3	NR	23	61.2	60.9	62.3	64.4	63.6	62.6	NR	59.9
8	NR	61.1	NR	NR	NR	NR	62.3	NR	24	61.2	60.8	62.3	64.2	63.8	62.6	NR	59.8
9	NR	61.1	NR	NR	NR	NR	62.4	NR	25	61.2	60.6	62.8	63.9	63.5	62.7	NR	59.8
10	NR	61.1	63.2	NR	63.7	NR	62.4	60.8	26	61.2	60.7	63.6	63.7	63.5	63.1	NR	59.8
11	NR	61.0	62.2	64.5	63.6	NR	62.4	60.8	27	61.2	NR	63.2	63.7	63.7	63.4	NR	59.7
12	NR	61.0	63.3	63.7	63.6	NR	NR	60.8	28	61.2	NR	63.4	63.7	63.5	63.0	NR	59.7
13	NR	61.0	66.8	63.2	63.6	NR	NR	60.7	29	61.2	NR	63.3		NR	62.9	NR	59.7
14	NR	61.0	64.9	62.8	63.7	63.2	NR	60.7	30	61.2	NR	63.1		NR	62.8	NR	59.6
15	NR	60.9	64.0	62.6	63.6	63.1	NR	60.7	31		NR	62.9		NR		NR	
16	NR	60.9	63.4	65.8	63.5	63.0	NR	60.5									

Crest Stages:				
	Date	1-13-59	2-11-59	2-17-59
	Time	2:00 AM	4:00 AM	6:00 AM
	Stage	67.6	65.3	69.5

E - Estimated NR - No Record

TABLE 277

DAILY MEAN GAGE HEIGHT
FEATHER RIVER BELOW SHANGHAI BEND

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	35.4E	36.2	36.3	38.2	39.6	40.3	NR	34.5	17	36.3	36.0	39.5	NR	39.4	37.3	36.2	32.9
2	35.6	36.2	36.3	38.0	39.7	40.2	NR	34.3	18	36.2	36.0	39.0	52.6	39.5	37.0	36.0	32.9
3	35.6	36.2	36.3	37.9	40.0	40.2	NR	34.2	19	36.3	36.0	38.7	52.0	39.4	36.8	35.7	32.9
4	35.5	36.1	36.2	NR	40.4	40.3	NR	34.1	20	36.3	35.9	38.5	48.1	39.3	36.7	35.3	32.9
5	35.5	36.1	36.4	NR	39.9	40.5	NR	33.9	21	36.3	35.4E	38.3	45.5	39.2	36.7	35.2	32.8
6	35.5	36.1	36.8	NR	39.8	40.6	NR	33.9	22	36.3	35.3E	38.1	44.0	39.2	36.6	35.0	32.9
7	35.6	36.1	36.4	NR	40.2	40.6	36.4	33.8	23	36.3	36.0	38.0	42.4	39.5	36.5	35.0	32.8
8	35.6	36.1	37.1	NR	40.1	40.4	36.3	33.8	24	36.3	36.1	37.9	41.2	39.9	36.5	35.3	32.8
9	35.8	36.2	38.2	NR	40.0	39.5	36.3	33.7	25	36.3	36.0	37.8	40.6	39.6	36.5	35.3	32.9
10	35.9	36.2	42.5	NR	39.9	38.8	36.4	33.5	26	36.3	36.1	38.6	40.0	39.3	37.1	35.2	32.9
11	36.0	36.1	41.4	NR	39.8	38.6	36.4	33.4	27	36.2	36.4	38.8	39.6	39.7	38.6	35.1	32.8
12	36.2	36.1	41.5	NR	39.7	38.7	36.4	33.3	28	36.2	36.9	38.6	39.6	39.5	38.4	35.3	32.8
13	36.1	36.0	48.4	NR	39.7	38.5	36.6	33.2	29	36.2	36.6	38.9		39.5	38.0	35.2	32.7
14	36.1	36.0	46.2	NR	39.8	38.3	36.7	33.2	30	36.1	36.3	38.6		39.3	37.8	34.9	32.8
15	36.4	36.1	42.5	NR	39.7	38.0	36.6	33.2	31		36.1	38.3		40.2		34.6	
16	36.4	36.1	40.5	NR	39.6	37.7	36.4	33.0									

Crest Stages:								
	Date	1-10-59	1-13-59	2-19-59	3- 4-59	3- 7-59	3-24-59	3-31-59	4- 7-59
	Time	1:15 PM	5:00 PM	1:00 AM	12:15 PM	8:00 AM	5:30 PM	7:00 PM	6:00 PM
	Stage	42.9	48.9	52.8	40.5	40.3	40.1	40.4	40.7

E - Estimated NR - No Record

TABLE 278

DAILY MEAN GAGE HEIGHT
BEAR RIVER NEAR WHEATLAND

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June
1	1.0	1.0	1.1	1.8	2.4	1.7	0.9	NF	17	1.1	1.0	1.8	5.8	2.7	0.9	0.8	0.4
2	1.0	1.0	1.1	1.8	2.4	1.1	0.8	0.[illegible]	18	1.1	1.0	1.7	6.0	2.7	0.9	0.8	0.3
3	1.0	1.0	1.1	1.7	2.4	1.1	0.8	0.9	19	1.1	1.0	1.6	5.5	2.7	0.9	0.8	0.3
4	1.1	1.0	1.1	1.6	2.3	1.0	0.9	0.8	20	1.0	1.0	1.6	4.1	2.7	0.9	0.8	0.3
5	1.1	1.0	1.1	1.7	2.3	1.0	0.8	0.1	21	1.0	1.1	1.6	3.9	2.7	0.9	0.8	0.3
6	1.1	1.0	2.1	1.6	2.2	1.0	0.8	NF	22	1.0	1.1	1.6	3.3	2.7	0.9	0.8	NF
7	1.1	1.0	1.8	1.6	2.1	1.0	0.8	NF	23	1.0	1.2	1.5	3.1	2.8	0.8	0.8	NF
8	1.0	1.0	1.5	1.5	2.1	0.9	0.8	NF	24	1.0	1.1	1.6	2.8	2.9	0.9	0.8	0.5
9	1.0	1.0	2.7	1.6	2.5	0.9	0.6	0.6	25	1.0	1.1	2.6	2.7	2.8	0.9	0.9	0.6
10	1.0	1.0	3.6	2.2	2.8	0.9	0.8	0.8	26	1.0	1.2	2.9	2.6	2.9	0.9	0.8	0.4
11	1.2	1.0	2.8	4.8	2.8	1.0	0.8	0.8	27	1.0	1.5	2.3	2.5	2.8	0.9	NF	0.4
12	1.1	1.0	3.1	4.2	2.8	1.0	0.8	0.9	28	1.0	1.4	2.5	2.4	2.8	0.9	NF	0.2
13	1.1	1.0	3.7	2.9	2.8	1.0	0.8	0.9	29	1.0	1.4	2.2		2.7	0.9	NF	0.5
14	1.1	1.0	2.5	2.5	2.8	0.9	0.8	0.9	30	1.0	1.2	2.0		2.6	0.8	NF	0.4
15	1.2	1.0	2.1	2.4	2.7	0.9	0.8	0.8	31		1.2	1.9		2.4		NF	
16	1.2	1.0	1.9	5.2	2.6	0.9	0.8	0.5									

Crest Stages:								
Date	1- 6-59	1-10-59	1-12-59	1-25-59	2-11-59	2-12-59	2-16-59	2-18-59
Time	6:00 PM	3:30 AM	7:00 PM	4:15 PM	3:30 AM	4:30 AM	7:00 PM	11:00 PM
Stage	2.5	3.9	5.0	3.8	6.4	5.1	7.7	6.7

E - Estimated NR - No Record

TABLE 279

DAILY MEAN GAGE HEIGHT
DRY CREEK NEAR WHEATLAND

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec	Jan	Feb	Mar	Apr.	May	June
1	3.0	3.0	3.0	3.2	3.5	3.3	3.0	NF	17	3.0	3.0	3.2	6.2	3.2	3.1	2.9	NF
2	3.0	3.0	3.0	3.2	3.4	3.2	3.0	NF	18	3.0	3.0	3.2	6.9	3.1	3.0	2.9	NF
3	3.0	3.0	3.0	3.2	3.4	3.2	2.9	NF	19	3.0	3.0	3.2	5.4	3.1	3.0	3.0	NF
4	3.0	3.0	3.0	3.2	3.4	3.2	3.0	NF	20	3.0	3.0	3.2	4.7	3.1	3.0	3.0	NF
5	3.0	3.0	3.0	3.1	3.3	3.1	3.0	NF	21	3.0	3.0	3.2	5.1	3.1	3.0	3.0	NF
6	3.0	3.0	3.2	3.1	3.3	NR	NF	NF	22	3.0	3.0	3.2	4.3	3.1	3.0	3.0	NF
7	2.9	3.0	3.4	3.1	3.3	NR	NF	NF	23	3.0	3.0	3.1	4.1	3.2	3.0	3.0	NF
8	2.9	3.0	3.2	3.1	3.3	NR	NF	NF	24	3.0	3.1	3.2	3.9	3.4	NF	3.0	NF
9	2.9	3.0	3.7	3.1	3.2	NR	NF	NF	25	3.0	3.1	3.7	3.8	3.2	NF	3.1	NF
10	2.9	3.0	4.5	3.7	3.2	NR	2.9	NF	26	3.0	3.0	3.9	3.7	3.2	3.1	3.1	NF
11	2.9	3.0	3.9	5.4	3.2	NR	3.0	NF	27	3.0	3.2	3.6	3.6	3.3	3.1	3.1	NF
12	3.0	3.0	4.2	5.1	3.2	NR	3.0	NF	28	3.0	3.3	3.8	3.5	3.2	3.0	3.0	NF
13	3.0	3.0	4.3	4.2	3.2	3.0	3.0	NF	29	3.0	3.1	3.6		3.2	3.0	3.0	NF
14	3.0	3.0	3.6	3.8	3.2	3.0	3.0	NF	30	3.0	3.1	3.4		3.2	3.0	NF	NF
15	3.0	3.0	3.4	3.6	3.2	3.0	3.0	NF	31		3.0	3.3		3.4		NF	
16	3.0	3.0	3.3	5.2	3.2	3.1	3.0	NF									

Crest Stages:				
Date	1-10-59	1-12-59	2-11-59	2-17-59
Time	7:15 AM	9:00 PM	12:15 AM	8:00 PM
Stage	5.0	5.7	6.1	8.1

E - Estimated NR - No Record

TABLE 280

DAILY MEAN GAGE HEIGHT
FEATHER RIVER AT NICOLAUS

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr	May	June
1	22.7	23.7	23.9	27.1	31.3	28.7	25.0	NR	17	23.8	23.6	29.5	37.3	27.9	25.4	24.2	NR
2	22.9	23.7	24.0	27.0	29.9	28.4	25.2	NR	18	23.7	23.6	28.1	40.2	27.9	25.1	24.0	NR
3	22.9	23.7	23.9	26.6	29.3	28.6	25.2	NR	19	23.7	23.5	27.0	41.0	27.9	24.9	23.8	20.7
4	22.8	23.7	23.9	25.9	29.2	28.7	25.0	NR	20	23.8	23.5	26.5	39.4	27.8	24.7	23.2	20.7
5	22.8	23.6	23.9	25.4	28.8	28.8	24.7	NR	21	23.8	22.9	26.0	37.8	27.6	24.6	23.1	20.7
6	22.8	23.6	24.3	25.2	28.2	29.0	24.5	NR	22	23.8	22.6	25.7	36.8	27.6	24.5	22.9	20.7
7	22.9	23.6	25.4	25.1	28.6	29.0	24.4	NR	23	23.8	23.3	25.5	36.0	28.0	24.4	22.8	20.6
8	22.9	23.6	25.0	25.1	28.5	28.8	24.2	NR	24	23.8	23.6	25.4	35.4	28.5	24.4	23.1	20.5
9	23.1	23.6	25.6	25.0	28.5	28.0	24.2	NR	25	23.8	23.6	25.9	34.9	28.3	24.5	23.2	20.4
10	23.2	23.7	31.0	25.2	28.6	27.1	24.3	NR	26	23.8	23.7	27.3	34.3	27.9	24.9	23.2	20.4
11	23.3	23.6	30.9	29.2	28.4	26.8	24.4	NR	27	23.7	24.0	27.3	33.6	28.3	26.5	23.1	20.4
12	23.6	23.6	30.3	29.0	28.3	26.9	24.3	NR	28	23.7	24.6	27.0	32.7	28.2	26.1	23.1	20.4
13	23.5	23.6	36.1	27.7	28.2	26.7	24.4	NR	29	23.7	24.3	27.5		28.1	25.3	23.2	20.4
14	23.4	23.5	36.2	26.4	28.3	26.5	24.6	NR	30	23.7	23.9	27.2		27.8	25.1	23.0	20.3
15	23.7	23.6	33.2	26.0	28.3	26.2	24.6	NR	31		23.6	27.2		28.8		22.7	
16	23.9	23.6	31.1	27.7	28.1	25.8	24.4	NR									

Crest Stages:					
	Date	1-10-59	1-13-59E	2-11-59	2-19-59
	Time	6:00 PM	10:00E PM	3:00 PM	12:00 Noon
	Stage	31.8	37.9E	30.3	41.2

E-Estimated NR-No Record

TABLE 281

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT VERONA

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1	14.7	14.8	14.1	24.4	29.2	18.5	14.1	12.6	17	15.0	14.2	27.0	27.0	18.	12.2	14.3	10.9
2	14.7	14.7	14.1	24.4	27.2	18.6	14.2	12.3	18	15.0	14.1	25.1	32.2	18.3	12.0	14.2	10.8
3	14.7	14.7	14.1	23.8	25.6	18.5	14.5	11.9	19	14.8	14.1	23.4	35.0	18.1	12.1	13.9	10.8
4	14.6	14.8	14.0	22.2	24.6	18.3	14.4	11.7	20	14.8	14.1	22.3	34.9	17.9	12.1	13.7	10.8
5	14.4	14.8	14.0	20.5	23.7	18.2	14.2	11.4	21	14.9	14.0	21.3	34.3	17.6	12.1	13.5	10.9
6	14.4	14.8	14.5	19.2	22.7	18.1	14.1	11.2	22	14.9	13.7	20.4	33.9	17.[illegible]	12.1	13.4	10.9
7	14.3	14.7	17.0	18.5	22.1	17.8	14.1	11.4	23	14.9	13.8	19.8	33.5	17.6	11.8	13.3	10.8
8	14.4	14.6	18.7	18.1	21.6	17.4	14.0	11.5	24	14.9	14.2	19.4	33.2	18.0	12.0	13.2	10.7
9	14.4	14.6	18.7	17.7	21.1	16.5	14.0	11.4	25	14.9	14.2	19.3	32.9	18.2	12.3	13.4	10.7
10	14.5	14.7	22.7	17.5	20.8	15.2	14.0	11.3	26	14.9	14.2	20.2	32.4	17.7	12.6	13.3	10.7
11	14.6	14.7	25.6	19.4	20.5	14.7	14.1	11.1	27	14.9	14.3	21.4	31.8	17.8	13.9	13.2	10.8
12	14.7	14.6	26.2	20.8	20.2	14.8	14.0	10.9	28	14.8	14.6	21.6	30.8	17.8	14.8	13.2	11.0
13	14.9	14.5	27.8	20.1	19.8	14.4	14.0	10.8	29	14.8	14.9	21.7		17.8	14.7	13.2	11.2
14	14.8	14.4	29.9	18.9	19.5	14.0	14.1	10.9	30	14.8	14.7	22.8		17.6	14.3	13.1	11.3
15	14.8	14.2	30.0	18.2	19.3	13.5	14.2	11.0	31		14.1	24.1		17.9		12.9	
16	14.9	14.2	28.8	19.4	18.9	12.9	14.3	11.0									

Crest Stages:				
	Date	1-14-59	2- 2-59	2-19-59
	Time	11:00 PM	10:15 AM	8:00 PM
	Stage	30.2	24.5	35.3

E-Estimated NR-No Record

TABLE 282

DAILY GAGE HEIGHT*
SACRAMENTO RIVER AT PRITCHARD LAKE

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	NR	NR	NR	NR	NR	17.3	13.1	11.8	17	NR	NR	NR	NR	17.4	11.5	13.3	10.1
2	NR	NR	NR	NR	NR	NR	13.1	11.7	18	NR	NR	NR	NR	NR	11.4	13.3	10.1
3	NR	NR	NR	NR	NR	NR	13.6	11.3	19	NR	NR	NR	NR	NR	11.3	13.0	10.4
4	NR	NR	NR	NR	NR	NR	13.6	11.0	20	NR	NR	NR	NR	NR	11.3	12.8	10.4
5	NR	NR	NR	NR	NR	NR	13.4	10.7	21	NR	NR	NR	NR	NR	11.3	12.6	10.2
6	NR	NR	NR	NR	NR	NR	13.0	10.5	22	NR	NR	NR	NR	NR	11.2	12.7	10.4
7	NR	NR	NR	NR	NR	NR	13.0	10.5	23	NR	NR	NR	NR	NR	11.2	12.5	10.3
8	NR	NR	NR	NR	NR	NR	13.0	10.5	24	NR	NR	NR	NR	NR	11.2	12.4	10.0
9	NR	NR	NR	NR	NR	NR	13.0	10.5	25	NR	NR	NR	NR	NR	11.2	12.4	10.0
10	NR	NR	NR	NR	NR	NR	13.0	10.4	26	NR	NR	NR	NR	NR	11.2	12.4	10.0
11	NR	NR	NR	NR	NR	NR	13.0	10.4	27	NR	NR	NR	NR	NR	12.7	12.4	10.0
12	NR	NR	NR	NR	NR	NR	13.0	10.3	28	NR	NR	NR	NR	NR	14.2	12.4	10.2
13	NR	NR	NR	NR	NR	NR	13.0	10.3	29	NR	NR	NR		NR	13.8	12.4	10.5
14	NR	NR	NR	NR	NR	13.3	13.2	10.3	30	NR	NR	NR		NR	13.4	12.3	10.6
15	NR	NR	NR	NR	NR	12.6	13.4	10.1	31		NR	NR		NR		12.0	
16	NR	NR	NR	NR	NR	12.0	13.4	10.1									

Crest Stages:		
	Date	
	Time	
	Stage	

E-Estimated NR-No Record

* Individual daily staff gage readings.

TABLE 283

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER OPPOSITE SACRAMENTO WEIR

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec.	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1									17								
2									18			a 25.2					
3									19			26.3					
4									20			26.7					
5									21			26.5					
6									22			26.1					
7									23			25.7					
8									24			25.4					
9									25			a 25.0					
10									26								
11									27								
12									28								
13									29								
14									30								
15									31								
16																	

Crest Stages:		
	Date	2-20-59
	Time	6:00 AM
	Stage	26.8

E-Estimated NR-No Record

a Mean gage height for partial day period of flow to Sacramento Bypass via Sacramento Weir.

TABLE 284

DAILY GAGE HEIGHT*
SACRAMENTO RIVER AT SECOND BANNON SLOUGH

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec	Jan.	Feb.	Mar	Apr	May	June
1	NR	NR	NR	NR	20.7	NR	NR	NR	17	NR	NR	17.9	18.1	NR	NR	NR	NR
2	NR	NR	NR	NR	19.0	11.2	NR	NR	18	NR	NR	NR	23.1	NR	NR	NR	NR
3	NR	NR	NR	NR	17.4	NR	NR	NR	19	NR	NR	14.8	25.3	NR	NR	7.4	NR
4	NR	NR	NR	NR	16.3	11.2	NR	NR	20	NR	NR	NR	25.6	NR	NR	NR	NR
5	NR	NR	8.8	NR	15.7	NR	NR	NR	21	NR	NR	NR	25.4	NR	NR	9.2	NR
6	NR	NR	9.4	NR	NR	NR	NR	NR	22	NR	NR	12.0	25.0	NR	NR	NR	NR
7	NR	NR	9.7	12.0	14.4	11.0	NR	NR	23	NR	NR	NR	24.6	11.0	NR	8.6	NR
8	NR	NR	NR	NR	NR	NR	NR	NR	24	NR	NR	10.5	24.3	11.1	NR	8.4	NR
9	NR	NR	11.5	11.6	NR	NR	NR	NR	25	NR	NR	NR	23.8	NR	NR	NR	NR
10	NR	NR	13.0	10.8	NR	NR	NR	NR	26	NR	NR	12.0	23.2	NR	NR	NR	NR
11	NR	NR	16.0	11.2	NR	NR	NR	NR	27	NR	NR	NR	22.8	NR	NR	NR	NR
12	NR	NR	16.6	12.0	NR	NR	NR	NR	28	NR	NR	13.2	22.1	NR	NR	NR	NR
13	NR	NR	17.6	12.0	12.0	NR	NR	NR	29	NR	NR	NR		NR	NR	NR	NR
14	NR	NR	19.6	11.8	11.8	NR	NR	NR	30	NR	NR	NR		10.8	NR	7.3	NR
15	NR	NR	20.2	11.2	NR	NR	7.8	NR	31		NR	NR		NR		NR	
16	NR	NR	NR	12.6	NR	NR	NR	NR									

Crest Stages:	
Date	
Time	
Stage	

E-Estimated NR-No Record

* Average of two or more daily staff gage readings.

TABLE 285

DAILY MEAN GAGE HEIGHT
AMERICAN RIVER AT FAIR OAKS

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr	May	June
1	1.8	1.8	1.2	1.6	2.9	1.8	1.2	1.2	17	1.7	1.3	NR	2.7	2.9	1.3	1.2	2.0
2	1.8	2.2	1.2	1.6	2.8	1.6	1.2	1.3	18	1.7	1.0	NR	4.0	2.9	1.4	1.3	2.2
3	1.8	2.2	1.2	1.6	2.9	1.6	1.2	1.5	19	1.7	1.3	NR	4.0	2.9	1.4	1.3	2.2
4	1.8	2.2	1.3	1.6	2.9	1.6	1.2	1.5	20	1.7	1.1	NR	3.9	2.9	1.4	1.3	2.3
5	1.8	2.2	1.3	1.6	2.9	1.6	1.3	1.7	21	1.8	1.3	NR	4.0	2.9	1.2	1.3	2.3
6	1.7	2.2	1.3	1.6	2.9	1.6	1.3	1.7	22	1.8	1.8	NR	4.0	2.9	1.2	1.3	2.4
7	1.7	2.2	1.3	1.6	2.9	1.6	1.3	1.7	23	1.8	1.8	NR	4.0	2.9	1.2	1.2	2.5
8	1.7	2.2	1.3	1.6	2.9	1.6	1.3	1.7	24	1.8	1.3	NR	3.7	2.9	1.2	1.3	2.5
9	1.7	2.2	1.3	1.6	2.9	1.6	1.3	1.7	25	1.8	1.3	NR	3.2	2.9	1.2	1.3	2.7
10	1.7	2.2	1.3	1.6	2.9	1.6	1.3	1.7	26	1.8	1.3	1.3	2.9	2.9	1.2	1.3	3.0
11	1.7	2.2	1.3	1.6	2.9	1.3	1.2	1.9	27	1.8	1.3	1.2	2.9	2.7	1.2	1.2	3.2
12	1.7	2.2	1.2	1.6	2.9	1.3	1.2	2.0	28	1.8	1.2	1.2	2.9	1.9	1.2	1.2	3.2
13	1.7	1.8	NR	1.6	2.9	1.2	1.2	1.9	29	1.8	1.2	1.3		1.8	1.2	1.2	3.2
14	1.7	1.7	NR	1.6	2.9	1.2	1.2	2.0	30	1.8	1.2	1.3		1.8	1.2	1.2	3.2
15	1.7	1.3	NR	1.6	2.9	1.2	1.2	2.0	31		1.3	1.3		1.8		1.2	
16	1.7	1.2	NR	1.6	2.9	1.2	1.2	2.0									

Crest Stages:					
Date	2-18-59	2-21-59	2-23-59	6-29-59	7-30-59
Time	11:00 PM	10:30 PM	10:30 PM	10:00 PM	10:00 PM
Stage	4.0	4.1	4.1	3.2	4.5

E-Estimated NR-No Record

TABLE 286

DAILY MEAN GAGE HEIGHT
AMERICAN RIVER AT SACRAMENTO

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec	Jan.	Feb.	Mar	Apr	May	June
1	[illegible]	[illegible]	[illegible]	17.9	20.4	18.1	17.7	17.6	17	18.1	17.7	17.8	18.4	19.2	17.7	17.6	18.3
2	[illegible]	[illegible]	[illegible]	17.9	19.4	18.0	17.7	17.6	18	18.1	17.5	17.7	21.9	19.2	17.8	17.7	18.4
3	[illegible]	[illegible]	[illegible]	17.9	19.2	17.9	17.7	17.8	19	18.0	17.7	17.6	24.5	19.2	17.8	17.7	18.5
4	[illegible]	[illegible]	[illegible]	17.9	19.2	17.9	17.6	17.8	20	18.0	17.6	17.7	25.2	19.2	17.8	17.7	18.6
5	[illegible]	[illegible]	[illegible]	17.9	19.2	17.9	17.7	18.0	21	18.1	17.7	17.6	25.0	19.2	17.7	17.6	18.6
6	[illegible]	[illegible]	17.7	17.9	19.2	18.0	17.7	18.1	22	18.1	18.0	17.7	24.6	19.2	17.7	17.6	18.6
7	[illegible]	[illegible]	17.7	17.9	19.2	18.0	17.7	18.1	23	18.1	18.1	17.6	24.2	19.2	17.7	17.7	18.8
8	[illegible]	[illegible]	17.7	17.9	19.2	18.0	17.7	18.0	24	18.1	17.8	17.7	23.9	19.2	17.7	17.7	18.8
9	[illegible]	18.5	17.7	18.0	19.2	18.0	17.7	18.0	25	18.1	17.7	17.7	23.3	19.2	17.8	17.7	18.9
10	[illegible]	[illegible]	17.7	18.0	19.2	18.0	17.7	18.1	26	18.1	17.7	17.7	22.7	19.2	17.8	17.7	19.2
11	18.1	18.5	17.7	18.0	19.2	17.8	17.6	18.1	27	18.1	17.7	17.7	22.2	19.2	17.7	17.7	19.4
12	18.1	18.5	17.7	18.0	19.2	17.7	17.6	18.3	28	18.1	17.7	17.7	21.5	18.3	17.7	17.6	19.4
13	18.1	18.2	17.7	18.0	19.2	17.6	17.6	18.2	29	18.1	17.6	17.7		18.2	17.7	17.6	19.4
14	18.1	18.1	18.8	18.0	19.2	17.6	17.6	18.3	30	18.1	17.6	17.7		18.2	17.6	17.6	19.4
15	18.1	17.7	19.3	18.0	19.2	17.6	17.6	18.3	31		17.6	17.7		18.1		17.6	
16	18.1	17.7	18.6	18.0	19.2	17.6	17.6	18.3									

Crest Stages:					
	Date	1-15-59	2-20-59	3-27-59	6-30-59
	Time	2:00 PM	7:00 AM	3:00 AM	3:00 AM
	Stage	19.3	25.2	19.2	19.5

E-Estimated NR-No Record

TABLE 287

DAILY MEAN GAGE HEIGHT
AMERICAN RIVER AT ELVAS

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	11.0	10.9	NR	14.4	19.9	11.2	NR	NR	17	10.9	NR	16.8	16.0	12.6E	NR	NR	11.1
2	11.0	11.3	NR	14.6	18.1	11.2	NR	NR	18	10.8	NR	15.2	21.4	12.5E	10.5	NR	11.2
3	11.0	11.4	NR	14.3	16.6	11.1	NR	NR	19	10.8	NR	13.8	24.4	12.4	10.5	NR	11.3
4	11.0	11.4	NR	13.4	15.6	11.1	NR	10.5	20	10.8	NR	12.9	25.0	12.4	10.5	NR	11.4
5	11.0	11.4	10.5	12.4	15.0	11.0	NR	10.7	21	10.8	NR	12.3	24.8	12.4	NR	NR	11.5
6	10.9	11.4	10.5	11.7	14.4	11.1	NR	10.8	22	10.8	NR	11.8	24.4	12.4	NR	NR	11.5
7	10.9	11.4	NR	11.3	14.0	11.0	NR	10.7	23	10.8	10.9	11.4	24.0	12.4	NR	NR	11.7
8	10.9	11.4	11.0	11.1	13.6	10.9	NR	10.7	24	10.9	NR	11.3	23.6	12.5	NR	NR	11.7
9	10.9	11.4	11.4	11.1	13.4	10.8	NR	10.8	25	10.9	NR	11.4	23.1	12.5	NR	NR	11.9
10	10.9	11.4	12.6	11.2	13.2	10.8	NR	10.8	26	10.9	NR	11.6	22.5	12.5	NR	NR	12.2
11	10.9	11.4	15.0	11.6	13.1	10.6	NR	10.9	27	10.9	NR	12.2	22.0	12.4	NR	NR	12.5
12	10.9	11.4	15.6	12.5	13.0	10.4	NR	11.0	28	10.9	NR	12.6	21.2	11.6	NR	NR	12.5
13	10.9	11.0	16.7	12.2	13.0	NR	NR	11.0	29	10.9	NR	12.6		11.2	NR	NR	12.5
14	10.9	10.9	18.6	11.6	12.8	NR	NR	11.0	30	10.9	NR	13.3		11.2	NR	NR	12.5
15	10.9	NR	19.2	11.3	12.7	NR	NR	11.1	31		NR	14.0		11.2		NR	
16	10.9	NR	18.3	12.0	12.6E	NR	NR	11.1									

Crest Stages:						
	Date	1-12-59	1-15-59	2- 2-59	2-12-59	2-20-59
	Time	11:00 AM	9:00 AM	3:30 PM	12:00 Noon	7:00 AM
	Stage	15.8	19.2	14.8	12.7	25.1

E-Estimated NR-No Record

TABLE 288

DAILY MEAN GAGE HEIGHT
AMERICAN RIVER AT GARDEN HIGHWAY

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	NR	NR	NR	14.6	20.1	10.5	NR	NR	17	NR	NR	17.2	16.7	11.1	NR	NR	NR
2	NR	NR	NR	14.8	18.3	10.6	NR	NR	18	NR	NR	15.5	21.5	11.0	NR	NR	NR
3	NR	NR	NR	14.5	16.8	10.6	NR	NR	19	NR	NR	14.0	24.6	10.7	NR	NR	NR
4	NR	NR	NR	13.6	15.7	10.6	NR	NR	20	NR	NR	13.1	25.2	10.5	NR	NR	NR
5	NR	NR	NR	12.4	15.0	10.5	NR	NR	21	NR	NR	12.5	25.1	10.5	NR	NR	NR
6	NR	NR	9.9	11.6	14.3	10.3	NR	NR	22	NR	NR	11.9	24.7	10.5	NR	NR	NR
7	NR	NR	10.3	11.1	13.8	10.2	NR	NR	23	NR	NR	11.4	24.2	10.7	NR	NR	NR
8	NR	NR	10.9	10.7	13.4	10.0	NR	NR	24	NR	NR	11.3	23.9	10.8	NR	NR	NR
9	NR	NR	11.8	10.5	13.0	NR	NR	NR	25	NR	NR	11.5	23.3	10.9	NR	NR	NR
10	NR	NR	13.5	10.7	12.6	NR	NR	NR	26	NR	NR	11.9	22.8	10.7	NR	NR	NR
11	NR	NR	15.4	13.1	12.5	NR	NR	NR	27	NR	NR	12.5	22.3	10.6	NR	NR	NR
12	NR	NR	16.1	13.7	12.2	NR	NR	NR	28	NR	NR	12.8	21.5	10.4	NR	NR	NR
13	NR	NR	17.3	13.1	12.2	NR	NR	NR	29	NR	NR	12.8		10.2	NR	NR	NR
14	NR	NR	19.1	11.8	11.8	NR	NR	NR	30	NR	NR	13.6		10.3	NR	NR	NR
15	NR	NR	19.6	10.2	11.5	NR	NR	NR	31		NR	14.3		10.1		NR	
16	NR	NR	18.8	12.4	11.2	NR	NR	NR									

Crest Stages:								
	Date	1-11-59	1-15-59	2- 1-59	2- 2-59	2- 3-59	2-20-59	3- 4-59	3- 5-59
	Time	11:00 PM	10:00 AM	4:00 PM	4:00 PM	4:00 PM	7:00 AM	4:00 PM	5:00 PM
	Stage	15.8	19.6	14.8	15.0	14.7	25.3	15.7	15.0

E - Estimated NR - No Record

TABLE 289

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT SACRAMENTO

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	a 4.4	a 4.5	a 4.0	a 11.1	16.5	a 7.0	a 4.3	a 3.4	17	a 4.4	a 3.9	13.7	12.4	a 7.6	a 3.2	a 4.0	a 2.7
2	a 4.4	a 4.5	a 4.0	a 11.3	14.8	a 7.1	a 4.1	a 3.3	18	a 4.2	a 3.8	12.0	17.7	a 7.5	a 3.1	a 3.9	a 3.0
3	a 4.4	a 4.6	a 3.8	a 11.1	13.3	a 7.1	a 4.2	a 3.1	19	a 4.1	a 4.0	10.6	20.9	a 7.2	a 3.1	a 3.7	a 3.2
4	a 4.3	a 4.7	a 3.9	a 10.3	12.2	a 7.2	a 4.2	a 2.9	20	a 4.3	a 4.0	a 9.8	21.6	a 7.0	a 3.2	a 3.7	a 3.2
5	a 4.1	a 4.8	a 4.5	a 9.1	a 11.6	a 7.0	a 4.0	a 3.0	21	a 4.3	a 4.0	a 9.1	21.4	a 7.1	a 3.4	a 3.7	a 3.3
6	a 4.0	a 4.8	a 5.2	a 8.2	a 10.9	a 7.0	a 3.8	a 3.2	22	a 4.4	a 4.0	a 8.5	21.0	a 7.0	a 3.3	a 3.9	a 3.4
7	a 4.1	a 4.8	a 5.6	a 7.6	a 10.3	a 6.8	a 3.8	a 3.1	23	a 4.6	a 4.2	a 8.0	20.6	a 7.2	a 3.1	a 4.0	a 3.3
8	a 4.2	a 4.8	a 7.1	a 7.2	a 9.9	a 6.6	a 4.1	a 3.2	24	a 4.6	a 4.3	a 7.8	20.3	a 7.3	a 3.7	a 4.0	a 3.4
9	a 4.4	a 4.9	a 7.7	a 7.1	a 9.5	a 6.1	a 4.1	a 3.0	25	a 4.7	a 4.4	a 7.9	19.7	a 7.4	a 3.7	a 4.2	a 3.5
10	a 4.6	a 4.8	9.2	a 7.1	a 9.2	a 5.2	a 3.9	a 2.8	26	a 4.8	a 4.4	a 8.2	19.2	a 7.2	a 3.8	a 4.0	a 3.3
11	a 4.5	a 4.8	11.7	a 7.9	a 9.0	a 4.7	a 4.0	a 2.8	27	a 4.8	a 4.6	a 9.0	18.7	a 7.1	a 4.1	a 3.8	a 3.2
12	a 4.6	a 4.8	12.4	a 9.0	a 8.8	a 4.6	a 4.4	a 2.8	28	a 4.7	a 4.5	a 9.3	17.9	a 6.9	a 4.5	a 3.4	a 3.1
13	a 4.7	a 4.7	13.4	a 8.8	a 8.7	a 4.4	a 4.2	a 2.7	29	a 4.6	a 4.5	a 9.3		a 6.8	a 4.4	a 3.3	a 3.0
14	a 4.9	a 4.5	15.3	a 8.0	a 8.4	a 4.2	a 3.9	a 2.7	30	a 4.6	a 4.2	a 10.0		a 6.8	a 4.4	a 3.2	a 3.2
15	a 4.7	a 4.1	15.9	a 7.5	a 8.0	a 3.9	a 3.8	a 2.7	31		a 3.9	a 10.8		a 6.6		a 3.4	
16	a 4.3	a 4.0	15.2	a 8.3	a 7.8	a 3.4	a 3.7	a 2.8									

Crest Stages:			
	Date	1-15-59	2-20-59
	Time	11:15 AM	6:00 AM
	Stage	16.0	21.6

E - Estimated NR - No Record

a Mean tide gage height (half tide).

TABLE 290

DAILY MEAN GAGE HEIGHT
CACHE CREEK AT YOLO

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	NF	NF	NF	2.2	3.6	1.9	NF	NF	17	NF	NF	2.6	16.0	2.4	NF	NF	NF
2	NF	NF	NF	2.2	3.5	1.9	NF	NF	18	NF	NF	2.4	15.3	2.4	NF	NF	NF
3	NF	NF	NF	2.1	3.4	1.7	NF	NF	19	NF	NF	2.3	11.5	2.3	NF	NF	NF
4	NF	NF	NF	2.1	3.2	NR	NF	NF	20	NF	NF	2.2	9.8	2.3	NF	NF	NF
5	NF	NF	NF	2.0	3.1	NF	NF	NF	21	NF	NF	2.2	9.7	2.3	NF	NF	NF
6	NF	NF	NR	2.0	3.0	NF	NF	NF	22	NF	NF	2.1	9.0	2.2	NF	NF	NF
7	NF	NF	3.0	2.0	2.9	NF	NF	NF	23	NF	NF	2.0	8.5	2.3	NF	NF	NF
8	NF	NF	2.5	1.9	2.8	NF	NF	NF	24	NF	NF	2.0	8.2	2.3	NF	NF	NF
9	NF	NF	5.9	1.9	2.8	NF	NF	NF	25	NF	NF	2.0	6.4	2.3	NF	NF	NF
10	NF	NF	5.2	2.0	2.7	NF	NF	NF	26	NF	NF	2.1	4.3	2.3	NF	NF	NF
11	NF	NF	3.7	2.8	2.6	NF	NF	NF	27	NF	NF	2.3	4.0	2.0	NF	NF	NF
12	NF	NF	3.5	3.0	2.6	NF	NF	NF	28	NF	NF	2.3	3.8	1.9	NF	NF	NF
13	NF	NF	5.2	2.6	2.5	NF	NF	NF	29	NF	NF	2.3		1.8	NF	NF	NF
14	NF	NF	3.7	2.4	2.5	NF	NF	NF	30	NF	NF	2.3		1.7	NF	NF	NF
15	NF	NF	3.1	3.4	2.4	NF	NF	NF	31		NF	2.3		1.8		NF	
16	NF	NF	2.8	12.3	2.4	NF	NF	NF									

Crest Stages:					
	Date	1- 9-59	1-13-59	2-11-59	2-16-59	2-17-59
	Time	3:30 PM	3:30 AM	6:00 PM	6:30 PM	9:00 PM
	Stage	9.0	6.4	3.6	20.6	22.3

E-Estimated NR-No Record

TABLE 291

DAILY MEAN GAGE HEIGHT
YOLO BYPASS NEAR WOODLAND

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	10.3	10.3	10.3	12.3	17.8	10.8	10.4	10.5	17	10.3	10.3	15.2	20.3	11.8	10.4	10.6	10.3
2	10.3	10.3	10.4	12.1	17.2	11.0	10.3	10.5	18	10.3	10.3	14.7	23.4	11.6	10.3	10.6	10.2
3	10.3	10.3	10.4	12.0	16.8	11.0	10.3	10.5	19	10.3	10.3	14.2	25.6	11.5	10.3	10.6	10.3
4	10.3	10.3	10.4	11.8	15.7	10.9	10.2	10.5	20	10.3	10.3	13.8	25.9	11.4	10.3	10.7	10.3
5	10.3	10.3	10.5	11.8	14.6	10.8	10.2	10.5	21	10.3	10.3	13.3	25.4	11.2	10.3	10.7	10.3
6	10.3	10.3	10.5	11.7	14.2	10.8	10.2	10.6	22	10.3	10.3	12.9	25.0	11.1	10.2	10.6	10.3
7	10.3	10.3	10.6	11.6	13.9	10.8	10.2	10.5	23	10.3	10.3	12.7	24.7	11.1	10.2	10.6	10.3
8	10.3	10.3	11.1	11.4	13.7	10.7	10.1	10.5	24	10.3	10.3	12.3	24.5	11.2	10.2	10.5	10.3
9	10.3	10.3	11.9	11.1	13.4	10.7	10.2	10.5	25	10.3	10.3	12.0	24.1	11.2	10.1	10.4	10.3
10	10.3	10.3	15.2	11.0	13.2	10.9	10.3	10.4	26	10.3	10.3	11.8	23.2	11.0	10.2	10.4	10.3
11	10.3	10.3	16.3	11.1	12.8	10.8	10.5	10.3	27	10.3	10.3	11.9	21.8	10.8	10.2	10.4	10.4
12	10.4	10.3	16.6	11.8	12.9	10.7	10.5	10.3	28	10.3	10.3	12.1	20.2	10.7	10.2	10.5	10.3
13	10.3	10.3	16.8	12.4	12.7	10.5	10.5	10.3	29	10.3	10.3	12.3		10.6	10.3	10.5	10.2
14	10.3	10.3	17.1	12.1	12.5	10.4	10.5	10.3	30	10.3	10.3	12.3		10.6	10.4	10.5	10.2
15	10.3	10.3	16.8	11.9	12.2	10.4	10.6	10.3	31		10.3	12.3		10.7		10.5	
16	10.3	10.3	16.0	13.7	12.0	10.4	10.6	10.3									

Crest Stages:				
	Date	1-14-59	2-17-59	2-20-59
	Time	12:00 Noon	3:00 PM	2:00 AM
	Stage	17.2	18.2	26.2

E-Estimated NR-No Record

TABLE 292

DAILY MEAN GAGE HEIGHT
YOLO BYPASS ABOVE SACRAMENTO BYPASS

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June
1	NR	NR	NR	11.6	16.2	NR	9.9	10.1	17	NR	NR	15.0	17.3	10.4	NR	10.2	9.7
2	NR	NR	NR	11.4	15.6	NR	9.7	10.1	18	NR	NR	14.5	17.6	10.3	NR	10.2	9.7
3	NR	NR	NR	11.2	15.3	NR	9.5	10.0	19	NR	NR	14.0	18.4	10.1	NR	10.3	9.8
4	NR	NR	NR	11.0	14.9	NR	NR	10.0	20	NR	NR	13.6	19.4	10.0	NR	10.4	9.8
5	NR	NR	NR	11.0	14.3	NR	NR	10.1	21	NR	NR	12.9	19.0	9.9	NR	10.4	9.9
6	NR	NR	NR	10.9	14.0	NR	NR	10.2	22	NR	NR	12.4	18.4	9.8	NR	10.2	10.0
7	NR	NR	NR	10.7	13.7	NR	NR	10.2	23	NR	NR	12.1	18.1	9.7	NR	10.1	10.0
8	NR	NR	10.0	10.4	13.4	NR	NR	10.0	24	NR	NR	11.6	18.0	9.8	NR	10.0	10.0
9	NR	NR	10.8	10.0	13.0	NR	9.6	9.9	25	NR	NR	11.2	17.8	9.8	NR	10.0	10.0
10	NR	NR	15.6	9.7	12.7	NR	10.0	9.8	26	NR	NR	11.1	17.5	NR	NR	10.0	10.0
11	NR	NR	16.4	10.1	12.2	NR	10.2	9.8	27	NR	NR	11.2	17.3	NR	NR	10.1	9.8
12	NR	NR	16.4	11.0	11.8	NR	10.2	9.8	28	NR	NR	11.5	17.0	NR	9.6	10.2	9.6
13	NR	NR	16.6	11.6	11.4	NR	10.1	9.8	29	NR	NR	11.7		NR	9.9	10.2	9.6
14	NR	NR	16.6	11.4	11.2	NR	10.1	9.8	30	NR	NR	11.7		NR	10.0	10.2	9.6
15	NR	NR	16.1	11.0	10.8	NR	10.2	9.7	31		NR	11.7		NR		10.2	
16	NR	NR	15.5	13.4	10.6	NR	10.2	9.7									

Crest Stages:						
Date	1-13-59	2-13-59	2-20-59	4-30-59	5-20-59	6- 6-59
Time	11:00 PM	8:00 AM	11:00 PM	10:00 PM	12:15 PM	10:00 AM
Stage	16.8	11.7	19.5	10.1	10.5	10.3

E-Estimated NR-No Record

TABLE 293

DAILY MEAN GAGE HEIGHT
PUTAH CREEK NEAR WINTERS

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June
1	3.9	4.3	3.8	4.2	4.1	4.3	4.6	5.2	17	3.9	3.9	3.9	5.4	7.3	4.2	4.7	4.7
2	3.9	4.5	3.8	4.2	4.1	4.2	5.0	5.0	18	3.9	3.8	3.9	5.2	7.3	4.2	4.7	4.7
3	3.9	4.6	3.9	4.2	4.1	4.2	5.0	4.7	19	3.9	3.9	3.9	4.6	7.3	4.2	4.7	4.7
4	3.9	4.5	3.9	4.2	4.0	4.2	5.0	4.7	20	3.9	3.9	4.1	4.4	7.0	4.2	4.8	4.7
5	3.9	4.5	4.1	4.2	4.0	4.2	5.0	4.7	21	3.9	3.9	4.4	4.4	6.4	4.2	5.0	4.7
6	3.9	4.6	4.0	4.3	4.0	4.2	5.0	4.7	22	3.9	3.9	4.4	4.3	6.4	4.2	5.0	4.7
7	3.9	4.6	3.9	4.2	4.0	4.2	5.0	4.7	23	3.9	3.8	4.4	4.2	6.4	4.2	5.0	4.7
8	3.9	4.6	4.0	4.3	4.0	4.2	5.0	4.8	24	3.9	3.8	4.4	4.2	6.4	4.2	5.0	4.7
9	3.9	4.4	4.5	4.3	4.0	4.2	5.0	4.9	25	4.2	3.8	4.4	4.2	6.2	4.2	5.0	4.7
10	3.9	3.7	3.9	4.3	4.0	4.2	5.0	4.8	26	4.4	3.9	4.4	4.2	5.4	4.2	4.9	4.7
11	3.9	3.8	3.9	4.3	4.0	4.2	5.0	4.8	27	4.3	3.8	4.4	4.1	4.7	4.2	4.9	4.6
12	3.9	3.8	3.9	4.3	4.0	4.2	4.8	4.9	28	4.3	3.8	4.4	4.1	4.3	4.2	5.0	4.5
13	3.9	3.8	3.9	4.3	4.0	4.3	4.7	4.8	29	4.3	3.9	4.4		4.3	4.2	5.2	4.5
14	3.9	3.8	3.9	4.2	4.1	4.2	4.7	4.8	30	4.3	4.0	4.2		4.3	4.2	5.2	4.6
15	3.9	4.3	3.9	4.3	4.8	4.2	4.7	4.8	31		3.8	4.2		4.3		5.2	
16	3.9	4.6	3.9	6.0	6.1	4.2	4.7	4.8									

Crest Stages:				
Date	1- 9-59	2-16-59	2-17-59	3-19-59
Time	6:30 AM	8:00 AM	4:00 PM	12:15 PM
Stage	5.1	8.4	6.6	7.3

E-Estimated NR-No Record

TABLE 294

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
McLEOD LAKE AT STOCKTON

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	7.1 3.1	6.8 3.0	6.6 2.8	7.2 3.2	7.7 3.7	6.6 2.5	7.0 3.3	7.2 3.5	17	6.2 2.4	6.7 2.8	7.1 3.6	8.1 4.3	6.4 3.1	6.4 2.7	6.5 3.2	7.2 3.0
2	7.1 3.1	6.6 2.8	6.8 3.0	7.5 3.1	7.7 3.6	6.7 2.8	7.0 3.2	7.1 3.2	18	6.2 2.4	6.8 3.0	7.0 3.3	8.1 4.3	6.6 2.8	6.5 2.8	6.9 3.0	7.4 2.9
3	6.9 3.1	6.6 2.9	7.0 3.0	7.6 3.1	7.6 3.5	6.9 3.4	7.0 3.3	7.1 3.0	19	6.5 2.5	7.2 3.5	7.2 3.3	8.1 4.1	6.3 2.5	6.5 2.9	6.8 3.0	7.8 3.1
4	6.5 3.1	7.1 3.1	7.2 3.1	7.7 3.2	7.4 3.2	7.2 3.6	6.8 3.0	7.1 2.8	20	6.7 3.0	7.3 3.3	7.5 3.2	8.5 4.5	6.5 2.7	6.7 3.3	7.2 2.9	7.8 3.0
5	6.6 3.0	7.4 3.4	7.7 3.8	7.7 3.3	7.5 3.3	7.0 3.5	6.6 2.8	7.2 2.9	21	6.9 3.2	7.3 3.2	7.5 3.2	8.8 4.5	7.1 3.0	7.0 3.3	7.3 2.8	7.8 3.0
6	6.8 3.0	7.6 3.5	8.4 3.7	7.9 3.3	7.6 3.5	7.2 3.6	6.8 2.8	7.4 3.0	22	7.1 3.3	7.4 3.1	7.5 3.1	8.4 4.8	7.2 3.2	7.1 3.0	7.6 2.8	7.9 3.1
7	7.1 3.3	7.6 3.4	8.1 3.7	7.8 3.6	7.5 3.5	7.2 3.5	6.9 2.7	7.3 2.7	23	7.3 3.2	7.4 3.0	7.4 3.1	8.1 4.5	7.3 3.4	7.2 2.8	7.9 2.9	7.7 3.0
8	7.2 3.4	7.9 3.4	8.3 3.5	7.6 3.5	7.2 3.5	7.3 3.4	7.0 3.1	7.3 2.9	24	7.4 3.2	7.3 3.0	7.8 3.1	7.9 4.2	7.0 3.4	7.9 3.6	7.7 3.2	7.6 3.3
9	7.8 3.7	8.0 3.4	8.4 3.6	7.3 3.5	7.0 3.4	7.2 3.4	7.3 3.0	7.2 2.6	25	7.5 3.2	7.6 2.9	7.9 3.4	7.6 4.1	6.8 3.0	7.7 2.9	7.7 3.1	7.3 3.7
10	7.8 3.4	7.7 3.2	8.1 3.8	7.4 3.4	6.8 3.4	7.1 3.2	7.1 2.7	6.9 2.5	26	7.7 3.2	7.6 3.0	7.4 3.5	7.7 4.0	7.1 3.1	7.6 3.0	7.4 3.1	7.0 3.3
11	7.8 3.4	7.7 2.9	7.9 3.7	7.3 3.8	6.8 3.3	6.9 2.9	7.1 2.7	6.7 2.5	27	7.7 3.3	7.5 3.3	7.1 3.3	7.8 4.1	7.1 2.9	7.2 2.8	7.0 2.8	7.0 3.0
12	7.7 3.2	7.9 3.0	7.6 3.8	7.3 3.9	6.7 3.3	6.9 2.9	7.6 3.9	6.6 2.8	28	7.4 3.2	7.2 3.1	6.9 3.3	7.8 3.8	7.1 3.0	6.9 2.7	6.5 2.6	6.9 3.2
13	7.7 3.0	7.6 3.3	7.2 3.6	7.0 3.7	7.1 3.6	6.9 2.8	7.0 2.8	6.6 2.9	29	7.4 3.0	6.8 2.8	6.8 3.1		7.2 2.9	6.7 2.7	6.4 2.6	7.0 3.3
14	8.1 3.2	7.2 3.1	7.2 3.4	7.0 3.8	6.7 3.2	6.7 2.9	6.6 2.9	6.6 2.9	30	7.2 3.0	6.4 2.6	7.0 3.3		7.1 3.0	6.8 3.2	6.5 3.0	7.1 3.2
15	7.4 3.5	6.7 3.0	7.0 3.5	7.3 3.5	6.4 2.8	6.6 2.8	6.4 2.5	6.7 3.1	31		6.2 2.6	7.0 3.2		6.9 2.6		6.8 3.5	
16	6.6 3.2	6.6 2.8	7.1 3.6	8.9 4.9	6.2 2.6	6.3 2.7	6.2 2.7	7.0 3.2									

Crest Stages	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 295

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SAN JOAQUIN RIVER AT MOSSDALE BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	4.2 2.8	4.3 3.3	3.3 1.7	3.8 1.8	4.9 3.5	2.7 0.4	3.0 0.8	3.0 0.7	17	3.7 2.7	3.5 2.2	3.9 2.3	4.9 3.2	2.7 0.7	2.4 0.0	2.3 0.3	2.7 0.2
2	4.2 2.7	4.3 3.2	3.5 1.8	3.9 1.8	4.9 3.3	2.6 0.4	3.0 0.8	3.0 0.5	18	3.6 2.7	3.5 1.8	3.8 2.3	5.2 3.8	2.8 0.6	2.3 0.1	2.7 0.3	2.9 0.2
3	4.0 2.7	4.3 3.4	3.3 1.4	3.9 1.7	4.7 3.3	2.8 0.4	2.9 0.8	2.9 0.3	19	3.9 2.7	3.7 1.8	3.9 2.1	5.2 3.6	2.5 0.2	2.3 0.1	2.7 0.5	3.3 0.3
4	4.0 2.6	4.5 3.5	3.6 1.4	4.1 1.7	4.6 3.2	3.0 0.7	2.8 0.7	2.9 0.2	20	4.1 3.0	3.8 1.9	4.1 2.0	5.8 3.8	2.5 0.2	2.3 0.3	2.9 0.5	3.3 0.3
5	3.8 2.5	4.6 3.3	3.7 1.6	4.0 1.9	4.5 3.2	2.8 0.9	2.5 0.4	2.9 0.2	21	4.2 3.1	3.8 1.8	4.1 2.0	6.0 4.5	2.9 0.2	2.6 0.4	3.0 0.4	3.2 0.3
6	4.0 2.7	4.7 3.4	4.7 1.8	4.2 1.9	4.5 3.1	3.0 0.9	2.7 0.5	3.1 0.3	22	4.4 3.2	3.9 1.8	4.0 2.0	6.0 4.8	3.0 0.6	2.7 0.3	3.3 0.5	3.4 0.4
7	4.2 2.9	4.6 3.3	4.4 2.1	4.1 2.1	4.3 3.0	2.9 0.8	2.7 0.3	3.0 0.1	23	4.5 3.2	3.9 1.8	4.0 2.0	5.8 5.0	3.0 0.8	2.8 0.2	3.6 0.6	3.2 0.3
8	4.3 3.0	4.8 3.2	4.5 2.1	3.9 2.0	4.0 2.8	3.0 0.7	2.9 0.5	3.0 0.2	24	4.6 3.2	3.8 1.8	4.3 2.0	5.4 4.5	2.8 1.0	3.3 0.6	3.4 0.7	3.1 0.4
9	4.8 3.1	4.8 3.2	4.8 2.1	3.6 1.9	3.8 2.7	3.0 0.6	3.2 0.5	3.0 0.0	25	4.6 3.2	4.1 1.9	4.5 2.2	5.1 4.2	2.7 0.7	3.2 0.4	3.5 0.7	2.9 0.5
10	4.8 3.3	4.6 3.1	4.6 2.4	3.8 1.8	3.6 2.5	2.9 0.4	3.0 0.3	2.7 -0.1	26	4.8 3.3	4.0 2.0	4.0 2.4	4.9 3.7	2.9 0.8	3.4 0.7	3.2 0.6	2.7 0.2
11	4.7 3.1	4.5 2.9	4.5 2.5	3.8 2.2	3.4 2.1	2.7 0.3	3.1 0.4	2.5 -0.2	27	4.9 3.4	4.0 2.0	3.7 2.2	5.1 3.8	3.0 0.8	3.2 0.7	2.8 0.2	2.5 -0.1
12	4.6 3.0	4.7 3.0	4.3 2.8	3.8 2.3	3.2 1.9	2.8 0.3	3.5 1.0	2.4 0.0	28	4.7 3.4	3.8 1.9	3.7 2.3	5.0 3.7	3.0 0.8	2.9 0.7	2.3 0.0	2.4 -0.1
13	4.6 2.9	4.5 3.0	3.8 2.4	3.8 2.4	3.6 1.9	2.8 0.2	3.0 0.2	2.2 -0.1	29	4.6 3.3	3.4 1.8	3.5 2.2		3.2 0.9	2.8 0.7	2.2 -0.1	2.5 0.2
14	4.9 3.0	4.2 2.9	3.9 2.2	3.7 2.2	3.2 1.6	2.8 0.1	2.6 0.2	2.3 -0.1	30	4.6 3.3	3.0 1.6	3.5 1.9		3.1 0.9	2.9 0.9	2.3 0.2	2.7 0.1
15	4.5 3.2	3.7 2.8	3.9 2.3	4.1 2.4	3.0 1.3	2.7 0.0	2.3 0.0	2.4 0.2	31		3.0 1.6	3.6 1.7		3.0 0.6		2.7 0.6	
16	4.0 3.0	3.7 2.4	4.0 2.4	5.3 2.4	2.7 0.8	2.3 -0.1	2.1 0.0	2.7 0.2									

Crest Stages	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 296

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SAN JOAQUIN RIVER AT BRANDT BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	7.6 4.5	7.3 4.6	6.9 3.8	7.4 4.3	8.2 5.2	6.7 3.3	7.0 4.0	7.1 4.1	17	6.7 4.0	7.1 4.1	7.5 4.6	8.5 5.8	6.6 3.7	6.4 3.3	6.5 3.7	7.1 3.6
2	7.5 4.4	7.1 4.5	7.1 4.0	7.6 4.2	8.2 5.1	6.7 3.5	7.0 3.9	7.1 3.8	18	6.6 3.9	7.1 4.0	7.4 4.3	8.6 5.7	6.7 3.5	6.4 3.5	6.8 3.6	7.3 3.6
3	7.3 4.4	7.1 4.6	7.1 3.9	7.7 4.2	8.1 5.0	6.9 4.0	7.0 4.0	7.1 3.6	19	7.0 4.0	7.4 4.3	7.6 4.3	8.5 5.7	6.5 3.2	6.4 3.6	6.8 3.7	7.7 3.8
4	7.0 4.3	7.6 4.7	7.4 4.1	7.8 4.2	7.9 4.8	7.2 4.3	6.8 3.8	7.1 3.5	20	7.2 4.4	7.5 4.3	7.8 4.3	9.0 5.8	6.6 3.4	6.6 3.8	7.1 3.7	7.7 3.7
5	7.0 4.2	7.9 4.9	7.8 4.7	7.8 4.3	7.9 4.8	7.0 4.3	6.6 3.5	7.1 3.6	21	7.3 4.6	7.6 4.2	7.8 4.3	9.2 6.2	7.0 3.8	6.9 3.9	7.2 3.6	7.7 3.7
6	7.2 4.3	8.0 5.0	8.5 4.7	8.0 4.3	8.0 4.8	7.1 4.2	6.7 3.6	7.3 3.6	22	7.6 4.8	7.7 4.2	7.7 4.3	9.0 6.5	7.1 3.8	7.0 3.7	7.5 3.6	7.8 3.9
7	7.5 4.6	8.0 4.8	8.2 4.7	7.9 4.6	7.8 4.9	7.1 4.2	6.8 3.4	7.2 3.4	23	7.7 4.8	7.6 4.2	7.7 4.2	8.6 6.5	7.2 4.0	7.1 3.6	7.8 3.8	7.6 3.8
8	7.7 4.7	8.3 4.8	8.4 4.6	7.7 4.5	7.6 4.8	7.2 4.1	6.9 3.7	7.2 3.5	24	7.8 4.7	7.5 4.1	8.0 4.3	8.4 6.1	7.0 4.2	7.7 4.2	7.7 3.9	7.5 4.0
9	8.2 4.8	8.4 5.0	8.6 4.7	7.4 4.5	7.3 4.7	7.2 4.0	7.3 3.7	7.2 3.3	25	8.0 4.8	7.8 4.1	8.2 4.5	8.1 5.8	6.8 3.8	7.6 3.8	7.7 3.9	7.3 4.2
10	8.2 5.1	8.1 4.8	8.3 5.0	7.6 4.4	7.1 4.6	7.0 3.8	7.0 3.5	6.9 3.2	26	8.2 4.8	7.7 4.2	7.7 4.7	8.1 5.6	7.0 3.9	7.6 3.8	7.4 3.8	7.1 3.8
11	8.2 4.9	8.1 4.5	8.2 4.9	7.6 4.8	7.0 4.4	6.8 3.6	7.1 3.4	6.7 3.2	27	8.2 4.9	7.7 4.4	7.4 4.4	8.3 5.5	7.1 3.8	7.2 3.6	7.0 3.5	7.0 3.6
12	8.1 4.7	8.2 4.6	8.0 5.0	7.5 4.9	7.0 4.3	6.9 3.5	7.6 4.5	6.6 3.4	28	7.9 4.9	7.5 4.2	7.2 4.4	8.3 5.4	7.1 3.8	6.9 3.5	6.5 3.2	6.8 3.7
13	8.1 4.6	8.0 4.8	7.5 4.8	7.3 4.7	7.3 4.6	6.9 3.4	7.0 3.4	6.4 3.4	29	7.8 4.7	7.0 4.0	7.1 4.3		7.2 3.8	6.8 3.6	6.4 3.2	6.9 3.9
14	8.4 4.7	7.6 4.6	7.5 4.5	7.3 4.7	6.9 4.1	6.8 3.5	6.6 3.5	6.6 3.4	30	7.6 4.7	6.7 3.7	7.2 4.3		7.1 3.8	6.9 3.9	6.5 3.6	7.1 3.8
15	7.8 5.0	7.1 4.4	7.4 4.5	7.7 4.6	6.7 3.8	6.6 3.3	6.4 3.2	6.7 3.6	31		6.5 3.6	7.2 4.1		7.0 3.4		6.8 4.0	
16	7.1 4.7	7.0 4.1	7.5 4.6	9.1 5.7	6.5 3.4	6.4 3.2	6.2 3.2	6.9 3.8									

Crest Stages:	Date	Time	Stage

NR— No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 297

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
STOCKTON SHIP CHANNEL AT BURNS CUTOFF

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr	May	June
1	6.5 2.5	6.2 2.4	6.0 2.2	6.6 2.6	7.1 3.1	6.0 2.0	6.3 2.7	6.5 2.9	17	5.6 1.9	6.1 2.3	6.5 3.0	7.6 3.8	5.8 2.5	5.7 2.1	5.9 2.6	6.5 2.3
2	6.4 2.5	6.0 2.2	6.2 2.4	6.8 2.6	7.1 3.0	6.0 2.2	6.4 2.6	6.5 2.6	18	5.5 1.8	6.2 2.4	6.4 2.7	7.5 3.7	5.9 2.2	5.8 2.2	6.2 2.4	6.8 2.3
3	6.2 2.5	6.0 2.3	6.3 2.4	7.0 2.6	7.0 3.0	6.2 2.8	6.3 2.7	6.4 2.4	19	5.8 2.0	6.6 2.9	6.6 2.7	7.5 3.6	5.7 1.9	5.9 2.3	6.2 2.4	7.2 2.4
4	5.9 2.5	6.5 2.6	6.6 2.6	7.1 2.7	6.8 2.7	6.5 3.0	6.2 2.5	6.5 2.3	20	6.1 2.4	6.6 2.7	6.9 2.6	7.9 4.0	5.9 2.1	6.0 2.7	6.5 2.3	7.2 2.3
5	5.9 2.4	6.8 2.9	7.1 3.3	7.1 2.7	6.8 2.7	6.4 2.9	6.0 2.2	6.5 2.4	21	6.2 2.6	6.7 2.6	6.9 2.6	8.2 4.0	6.4 2.5	6.4 2.7	6.6 2.2	7.2 2.4
6	6.1 2.4	6.9 3.0	7.8 3.1	7.2 2.7	7.0 3.0	6.5 3.0	6.1 2.2	6.7 2.4	22	6.5 2.7	6.8 2.6	6.9 2.5	7.8 4.3	6.5 2.6	6.4 2.4	7.0 2.3	7.3 2.5
7	6.4 2.7	7.0 2.8	7.4 3.1	7.1 3.0	6.8 2.9	6.5 2.9	6.2 2.1	6.6 2.2	23	6.6 2.6	6.8 2.5	6.8 2.5	7.5 4.0	6.6 2.6	6.6 2.3	7.2 2.4	7.0 2.4
8	6.6 2.8	7.3 2.8	7.6 3.0	6.9 2.9	6.6 2.9	6.6 2.8	6.4 2.5	6.6 2.3	24	6.8 2.6	6.7 2.5	7.2 2.5	7.3 3.6	6.3 2.8	7.2 3.0	7.1 2.6	7.0 2.7
9	7.1 3.1	7.4 2.8	7.8 3.0	6.7 3.0	6.4 2.8	6.6 2.8	6.7 2.4	6.6 2.0	25	6.9 2.6	7.0 2.4	7.3 2.8	7.0 3.6	6.2 2.4	7.0 2.4	7.1 2.5	6.6 3.0
10	7.2 3.1	7.1 2.7	7.5 3.2	6.8 2.9	6.1 2.8	6.4 2.6	6.4 2.2	6.3 1.9	26	7.1 2.6	6.9 2.5	6.8 3.0	7.1 3.4	6.4 2.5	7.0 2.4	6.8 2.6	6.4 2.6
11	7.2 2.9	7.1 2.4	7.3 3.1	6.7 3.2	6.1 2.7	6.2 2.3	6.4 2.1	6.1 1.9	27	7.1 2.7	6.9 2.8	6.5 2.7	7.2 3.5	6.5 2.3	6.6 2.2	6.3 2.2	6.2 2.4
12	7.1 2.7	7.2 2.5	7.0 3.2	6.6 3.3	6.1 2.7	6.3 2.3	6.9 3.3	5.9 2.2	28	6.8 2.7	6.6 2.5	6.3 2.7	7.2 3.3	6.5 2.4	6.2 2.1	5.8 2.0	6.2 2.5
13	7.1 2.4	7.0 2.7	6.6 3.1	6.3 3.1	6.4 3.0	6.2 2.2	6.3 2.2	5.8 2.3	29	6.7 2.5	6.2 2.3	6.2 2.5		6.6 2.3	6.0 2.1	5.8 2.0	6.3 2.7
14	7.4 2.6	6.6 2.6	6.6 2.9	6.4 3.2	6.0 2.6	6.1 2.3	5.9 2.3	6.0 2.3	30	6.6 2.4	5.8 2.1	6.4 2.7		6.4 2.4	6.1 2.6	5.9 2.4	6.4 2.6
15	6.8 2.9	6.1 2.4	6.4 2.9	6.7 2.9	5.8 2.2	5.9 2.1	5.8 1.9	6.1 2.5	31		5.6 2.0	6.4 2.7		6.2 2.0		6.2 2.9	
16	5.9 2.6	6.0 2.2	6.5 3.0	8.2 4.3	5.5 2.0	5.6 2.0	5.6 2.1	6.3 2.5									

Crest Stages:	Date	Time	Stage

NR— No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 298

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
MIDDLE RIVER AT MOWRY BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June
1	6.4 3.6	6.1 3.7	5.7 3.1	6.4 3.4	6.9 4.1	5.4 2.8	5.8 2.9	5.8 2.9	17	5.8 3.3	5.8 3.2	6.3 3.6	7.3 4.7	5.4 2.9	5.1 2.8	5.2 2.9	5.7 2.8
2	6.3 3.6	6.0 3.6	6.0 3.2	6.6 3.3	7.0 4.0	5.4 2.8	5.7 3.1	5.8 2.7	18	5.4 3.2	5.9 3.2	6.3 3.6	7.4 4.6	5.6 2.9	5.1 2.8	5.5 2.9	5.8 2.8
3	6.1 3.6	6.0 3.7	6.0 3.0	6.7 3.3	7.0 4.1	5.6 2.9	5.7 3.1	5.7 2.6	19	5.7 3.3	6.3 3.4	6.4 3.4	7.3 4.5	5.3 2.9	5.1 2.8	5.5 2.7	6.2 2.8
4	6.1 3.5	6.3 3.8	6.2 3.1	6.8 3.4	6.7 4.1	5.8 3.1	5.6 2.9	5.7 2.7	20	6.0 3.5	6.3 3.5	6.7 3.4	7.8 4.5	5.3 2.8	5.2 2.9	5.7 2.8	6.3 2.9
5	5.8 3.4	6.6 3.9	6.6 3.3	6.8 3.5	6.7 3.8	5.7 3.2	5.3 2.9	5.7 2.8	21	6.1 3.7	6.4 3.4	6.7 3.4	8.1 5.0	5.8 2.9	5.5 2.9	5.8 2.9	6.2 2.9
6	6.0 3.5	6.7 4.1	7.4 3.7	6.9 3.5	6.8 3.9	5.8 3.2	5.4 2.8	6.0 2.8	22	6.4 3.8	6.6 3.4	6.6 3.4	7.8 5.2	5.8 3.1	5.6 2.7	6.2 2.9	6.4 2.8
7	6.3 3.7	6.8 4.0	7.1 3.8	6.8 3.7	6.7 4.0	5.7 2.9	5.5 2.7	5.9 2.5	23	6.5 3.8	6.5 3.4	6.6 3.4	7.5 5.2	5.9 3.2	5.6 2.4	6.4 3.0	6.1 2.8
8	6.4 3.8	7.0 3.9	7.2 3.7	6.6 3.6	6.4 3.9	5.8 3.1	5.7 3.0	5.9 2.7	24	6.6 3.9	6.4 3.3	7.0 3.4	7.2 4.9	5.7 3.1	6.2 3.1	6.3 3.1	6.0 2.9
9	7.0 3.9	7.1 3.8	7.5 3.8	6.3 3.6	6.1 3.8	5.8 3.0	6.0 3.0	5.8 2.6	25	6.7 3.9	6.7 3.3	7.1 3.7	6.9 4.7	5.5 2.9	6.1 2.9	6.4 3.1	5.8 2.8
10	7.0 4.2	6.8 3.8	7.2 4.0	6.5 3.5	5.8 3.6	5.7 2.9	5.8 2.9	5.5 2.5	26	7.0 3.9	6.7 3.4	6.6 3.8	6.9 4.5	5.7 2.9	6.2 3.0	6.0 2.9	5.6 2.7
11	7.0 4.0	6.8 3.5	7.1 4.0	6.4 3.8	5.8 3.5	5.5 2.8	5.9 2.9	5.3 2.4	27	7.0 4.0	6.7 3.5	6.2 3.6	7.0 4.5	5.8 2.8	5.9 2.9	5.6 2.8	5.5 2.7
12	6.9 3.9	7.0 3.6	6.8 4.1	6.4 3.8	5.7 3.3	5.6 2.9	6.3 3.3	5.2 2.7	28	6.7 3.9	6.4 3.4	6.0 3.6	7.0 4.3	5.8 2.9	5.6 2.8	5.1 2.6	5.4 2.8
13	6.9 3.8	6.8 3.8	6.3 3.9	6.1 3.7	6.2 3.5	5.6 2.8	5.8 2.8	5.1 2.8	29	6.6 3.8	5.9 3.2	5.9 3.4		6.0 3.0	5.5 2.8	5.0 2.7	5.4 2.4
14	7.2 3.8	6.3 3.7	6.3 3.6	6.2 3.6	5.7 3.2	5.5 2.9	5.3 2.8	5.2 2.8	30	6.5 3.7	5.5 3.1	6.1 3.4		5.9 3.0	5.6 3.0	5.1 2.8	5.6 2.3
15	6.7 4.1	5.8 3.5	6.2 3.6	6.5 3.6	5.6 3.0	5.4 2.8	5.2 2.8	5.3 2.8	31		5.3 3.0	6.1 3.3		5.7 2.9		5.5 3.0	
16	5.9 3.8	5.7 3.2	6.3 3.6	8.0 4.5	5.3 2.8	5.1 2.7	4.9 2.8	5.5 2.8									

Crest Stages	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 299

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
TOM PAINE SLOUGH ABOVE MOUTH

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	7.9 4.5	7.6 4.5	7.2 3.9	7.9 4.4	8.3 5.0	6.8 3.4	7.1 4.0	7.2 4.0	17	7.0 4.0	NR 4.1	7.8 4.6	8.7 5.5	6.8 3.7	6.5 3.4	6.5 3.7	7.0 3.5
2	7.8 4.4	7.4 4.4	7.4 4.2	8.1 4.3	8.4 4.8	6.8 3.6	7.1 4.0	7.2 3.8	18	6.9 3.8	NR NR	7.7 4.3	8.8 5.5	6.9 3.5	6.5 3.5	6.9 3.7	7.2 3.5
3	7.6 4.4	7.4 4.4	7.4 4.0	8.0 4.3	8.4 4.9	6.9 4.0	7.0 4.0	7.1 3.6	19	7.2 3.9	NR NR	7.9 4.3	8.8 5.4	6.6 3.2	6.4 3.6	6.8 3.7	7.6 3.7
4	7.6 4.3	7.8 4.6	7.7 4.2	8.2 4.3	8.1 4.6	7.2 4.0	6.9 3.8	7.1 3.5	20	7.4 4.3	NR NR	8.1 4.4	9.2 5.3	6.7 3.2	6.6 3.6	7.1 3.7	7.7 3.6
5	7.3 4.2	8.1 4.8	8.0 4.2	8.2 4.4	8.1 4.6	7.1 4.3	6.7 3.6	7.1 3.5	21	7.6 4.6	NR NR	8.2 4.3	9.5 5.5	7.1 3.4	6.9 3.9	7.2 3.6	7.6 3.6
6	7.5 4.3	8.2 4.9	8.8 4.8	8.3 4.4	8.3 4.6	7.2 4.3	6.8 3.7	7.3 3.6	22	7.8 4.6	NR NR	8.1 4.3	9.2 5.7	7.2 3.9	6.9 3.7	7.6 3.6	7.8 3.8
7	7.7 4.6	8.3 4.9	8.5 4.8	8.2 4.7	8.1 4.8	7.1 4.2	6.9 3.5	7.3 3.4	23	8.0 4.7	NR NR	8.0 4.3	8.8 5.9	7.2 4.0	7.0 3.6	7.8 3.8	7.6 3.7
8	7.9 4.7	8.6 4.8	8.7 4.8	8.0 4.6	7.8 4.7	7.2 4.1	7.1 3.8	7.2 3.6	24	8.1 4.7	NR NR	8.4 4.3	8.6 5.6	7.0 4.2	7.6 4.2	7.7 3.9	7.4 3.8
9	8.4 4.8	8.6 4.9	8.9 4.8	7.8 4.6	7.5 4.6	7.2 4.0	7.4 3.7	7.2 3.3	25	8.2 4.7	NR NR	8.5 4.6	8.3 5.5	6.8 3.8	7.6 3.7	7.7 3.9	7.2 4.0
10	8.5 5.1	8.4 4.8	8.7 5.1	7.9 4.5	7.3 4.5	7.1 3.8	7.2 3.5	6.9 3.2	26	8.4 4.7	NR NR	8.0 4.7	8.3 5.3	7.1 3.9	7.6 3.8	7.4 3.8	7.0 3.7
11	8.5 4.9	8.3 4.6	8.5 4.9	7.8 4.8	7.2 4.3	6.9 3.6	7.2 3.5	6.7 3.2	27	8.4 4.8	NR NR	7.7 4.5	8.5 5.3	7.2 3.8	7.3 3.6	7.0 3.4	6.8 3.5
12	8.4 4.7	8.4 4.6	8.3 5.1	7.8 4.8	7.1 4.2	7.0 3.5	7.7 4.4	6.6 3.4	28	8.2 4.8	7.8 4.1	7.4 4.4	8.4 5.2	7.2 3.8	7.0 3.5	6.4 3.2	6.7 3.6
13	8.4 4.6	8.2 4.7	7.8 4.8	7.6 4.7	7.6 4.5	7.0 3.4	7.2 3.4	6.4 3.4	29	8.1 4.6	7.4 4.1	7.3 4.3		7.3 3.8	6.9 3.6	6.3 3.2	6.8 3.8
14	8.7 4.7	7.8 4.6	7.8 4.6	7.6 4.6	7.1 4.0	6.9 3.5	6.7 3.5	6.6 3.4	30	7.9 4.5	7.0 3.9	7.5 4.3		7.3 3.8	7.0 3.9	6.5 3.6	7.0 3.6
15	8.1 4.9	7.3 4.4	7.7 5.0	7.9 4.6	7.0 3.8	6.8 3.3	6.5 3.2	6.7 3.6	31		6.8 3.8	7.6 4.2		7.1 3.5		6.8 4.0	
16	7.4 4.7	7.2 4.1	7.8 4.6	9.3 5.7	6.7 3.4	6.5 3.2	6.3 3.3	6.8 3.7									

Crest Stages	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 300

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SAN JOAQUIN RIVER AT RINDGE PUMP

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb	Mar.	Apr	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1	3.4 -0.4	3.1 -0.6	2.9 -0.8	3.5 -0.3	4.0 0.1	2.9 -1.0	3.2 -0.3	3.4 -0.1	17	2.5 -1.1	3.0 -0.7	3.4 0.0	4.4 0.8	2.7 -0.5	2.6 -0.8	2.8 -0.4	3.4 -0.6
2	3.3 -0.5	2.9 -0.7	3.2 -0.5	3.8 -0.4	4.0 0.1	2.9 -0.8	3.3 -0.3	3.4 -0.4	18	2.4 -1.2	3.1 -0.5	3.3 -0.3	4.4 0.8	2.8 -0.7	2.7 -0.7	3.1 -0.6	3.7 -0.6
3	3.2 -0.4	2.9 -0.6	3.2 -0.5	3.9 -0.4	3.9 0.0	3.1 -0.2	3.2 -0.3	3.3 -0.6	19	2.8 -1.0	3.5 0.0	3.5 -0.2	4.4 0.6	2.6 -1.1	2.8 -0.6	3.1 -0.6	4.1 -0.5
4	2.8 -0.5	3.4 -0.4	3.5 -0.4	4.0 -0.3	3.7 -0.3	3.4 0.0	3.1 -0.5	3.4 -0.7	20	3.0 -0.5	3.5 -0.2	3.8 -0.3	4.8 1.0	2.8 -0.8	2.9 -0.3	3.4 -0.6	4.1 -0.6
5	2.8 -0.6	3.7 -0.1	4.1 0.4	4.0 -0.2	3.8 -0.2	3.3 0.0	2.9 -0.7	3.4 -0.6	21	3.1 -0.3	3.6 -0.3	3.8 -0.3	5.0 1.0	3.3 -0.4	3.3 -0.3	3.5 -0.8	4.0 -0.6
6	3.0 -0.6	3.8 0.0	4.7 0.2	4.1 -0.2	3.9 0.0	3.4 0.1	3.0 -0.8	3.6 -0.5	22	3.4 -0.3	3.7 -0.3	3.8 -0.4	4.7 1.3	3.4 -0.3	3.3 -0.5	3.9 -0.7	4.2 -0.4
7	3.3 -0.3	3.9 -0.2	4.4 0.0	4.0 0.1	3.7 0.0	3.4 0.0	3.1 -0.8	3.5 -0.8	23	3.6 -0.3	3.8 -0.5	3.7 -0.4	4.4 1.0	3.5 0.0	3.5 -0.7	4.1 -0.6	3.9 -0.6
8	3.5 -0.1	4.2 -0.1	4.6 0.0	3.8 0.0	3.5 0.0	3.5 -0.1	3.3 -0.5	3.5 -0.7	24	3.7 -0.3	3.6 -0.5	4.1 -0.4	4.2 0.7	3.3 -0.1	4.1 0.0	4.0 -0.4	3.8 -0.3
9	4.0 0.2	4.3 -0.1	4.7 0.2	3.6 0.0	3.3 -0.1	3.5 -0.2	3.6 -0.6	3.5 -0.9	25	3.8 -0.3	3.9 -0.5	4.2 -0.1	3.9 0.6	3.1 -0.5	3.9 -0.5	4.0 -0.5	3.5 0.0
10	4.0 0.2	4.0 -0.3	4.4 0.3	3.7 0.0	3.0 -0.1	3.3 -0.4	3.3 -0.8	3.2 -1.0	26	4.0 -0.3	3.9 -0.4	3.7 0.0	3.9 0.5	3.3 -0.3	3.9 -0.5	3.6 -0.4	3.0 -0.3
11	4.0 -0.1	4.0 -0.5	4.2 0.2	3.6 0.3	3.0 -0.2	3.1 -0.6	3.3 -0.8	3.0 -1.0	27	4.0 -0.2	3.8 -0.1	3.4 -0.2	4.1 0.6	3.4 -0.6	3.4 -0.8	3.2 -0.8	3.1 -0.6
12	4.0 -0.3	4.2 -0.5	3.9 0.3	3.6 0.4	3.0 -0.3	3.2 -0.7	3.8 0.2	2.8 -0.8	28	3.7 -0.3	3.5 -0.4	3.2 -0.2	4.1 0.3	3.4 -0.5	3.1 -0.9	2.7 -1.0	3.1 -0.4
13	4.0 -0.5	3.9 -0.2	3.5 0.1	3.3 0.2	3.4 0.1	3.1 -0.8	3.2 -0.8	2.9 -0.7	29	3.6 -0.5	3.1 -0.6	3.1 -0.4		3.5 -0.6	2.9 -0.8	2.7 -1.0	3.2 -0.3
14	4.3 -0.3	3.5 -0.4	3.5 0.0	3.3 0.3	2.9 -0.4	3.0 -0.7	2.8 -0.7	2.9 -0.7	30	3.5 -0.5	2.7 -0.8	3.3 -0.2		3.4 -0.5	3.0 -0.4	2.8 -0.6	3.4 -0.4
15	3.6 0.0	3.0 -0.5	3.3 -0.1	3.6 0.0	2.7 -0.7	2.8 -0.8	2.7 -1.0	3.0 -0.5	31		2.6 -0.9	3.3 -0.3		3.1 -1.0		3.1 -0.1	
16	2.8 -0.4	2.9 -0.7	3.4 0.1	5.2 1.4	2.5 -0.9	2.7 -0.9	2.5 -0.9	3.2 -0.4									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 301

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
OLD RIVER NEAR TRACY ROAD BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	7.7 4.1	7.4 4.1	7.1 3.7	7.8 4.2	8.2 4.7	6.7 3.1	7.0 3.8	7.1 3.8	17	6.8 3.6	7.2 3.8	7.6 4.3	8.6 5.2	6.7 3.4	6.4 3.2	6.4 3.5	6.9 3.3
2	7.6 4.0	7.2 4.0	7.4 3.9	7.9 4.0	8.3 4.5	6.7 3.3	7.0 3.7	7.1 3.6	18	6.7 3.4	7.3 3.9	7.6 4.1	8.7 5.2	6.8 3.3	6.4 3.3	6.8 3.6	7.1 3.3
3	7.4 4.0	7.2 4.0	7.3 3.8	7.9 4.0	8.3 4.6	6.9 3.8	6.9 3.8	7.0 3.3	19	7.0 3.5	7.6 4.2	7.8 4.1	8.7 5.2	6.5 3.1	6.4 3.3	6.8 3.4	7.6 3.4
4	7.4 4.0	7.6 4.2	7.6 4.0	8.1 4.1	8.0 4.6	7.1 3.8	6.8 3.5	7.0 3.2	20	7.3 3.9	7.7 4.2	8.0 4.2	9.1 5.0	6.6 3.1	6.5 3.6	7.0 3.5	7.6 3.4
5	7.1 3.8	7.9 4.5	7.9 4.0	8.1 4.2	8.0 4.2	7.0 4.1	6.6 3.3	7.0 3.3	21	7.4 4.2	7.8 4.2	8.0 4.1	9.3 5.5	7.0 3.2	6.8 3.7	7.1 3.3	7.5 3.4
6	7.3 3.9	8.0 4.6	8.7 4.6	8.2 4.2	8.1 4.3	7.1 4.1	6.7 3.4	7.2 3.3	22	7.6 4.2	7.9 4.1	7.9 4.0	9.0 5.8	7.1 3.6	6.9 3.5	7.5 3.4	7.7 3.6
7	7.6 4.2	8.1 4.6	8.4 4.6	8.1 4.5	7.9 4.5	7.1 4.0	6.8 3.3	7.2 3.2	23	7.8 4.3	7.9 4.1	7.9 4.0	8.7 5.6	7.1 3.8	6.9 3.3	7.8 3.6	7.4 3.4
8	7.7 4.4	8.4 4.4	8.6 4.5	7.9 4.4	7.6 4.4	7.1 3.9	7.0 3.5	7.1 3.2	24	7.9 4.3	7.8 4.0	8.3 4.1	8.4 5.3	6.9 3.9	7.5 4.0	7.6 3.7	7.3 3.6
9	8.3 4.4	8.4 4.6	8.8 4.6	7.7 4.4	7.4 4.3	7.1 3.8	7.3 3.5	7.1 3.2	25	8.0 4.3	8.0 4.0	8.4 4.3	8.2 5.2	6.8 3.6	7.5 3.4	7.6 3.6	7.1 3.8
10	8.3 4.7	8.2 4.4	8.5 4.9	7.8 4.3	7.1 4.2	7.0 3.6	7.1 3.3	6.8 3.1	26	8.2 4.3	8.0 4.1	7.9 4.5	8.2 5.0	7.0 3.7	7.5 3.6	7.3 3.6	6.9 3.5
11	8.3 4.5	8.2 4.2	8.4 4.7	7.7 4.6	7.1 4.1	6.8 3.3	7.1 3.3	6.6 3.1	27	8.2 4.4	8.0 4.3	7.6 4.2	8.3 5.0	7.0 3.6	7.2 3.3	6.9 3.2	6.7 3.2
12	8.2 4.4	8.3 4.3	8.1 4.9	7.7 4.6	7.0 4.0	6.9 3.3	7.6 4.2	6.5 3.1	28	8.0 4.4	7.7 4.1	7.3 4.2	8.3 4.9	7.1 3.6	6.9 3.2	6.4 3.1	6.6 3.4
13	8.2 4.2	8.1 4.4	7.7 4.6	7.5 4.4	7.4 4.2	6.9 3.2	7.1 3.2	6.3 4.1	29	7.9 4.2	7.3 3.9	7.2 4.0		7.2 3.6	6.8 3.3	6.3 3.1	6.7 3.6
14	8.5 4.3	7.7 4.3	7.7 4.4	7.5 4.4	7.0 3.8	6.8 3.2	6.6 3.3	6.5 3.2	30	7.8 4.1	6.9 3.7	7.4 4.1		7.2 3.6	6.9 3.7	6.4 3.4	6.9 3.4
15	7.9 4.6	7.2 4.1	7.6 4.3	7.8 4.3	6.8 3.4	6.7 3.1	6.4 3.1	6.6 3.4	31		6.7 3.6	7.4 4.0		7.0 3.2		6.8 3.8	
16	7.3 4.4	7.2 3.9	7.6 4.4	9.3 5.6	6.6 3.2	6.4 3.1	6.2 3.1	6.8 3.5									

Crest Stages.	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 302

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
GRANT LINE CANAL AT TRACY ROAD BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	5.9 2.4	5.6 2.5	5.3 2.1	5.9 2.5	6.4 3.0	4.9 1.5	5.2 2.1	5.3 2.2	17	4.9 1.9	5.4 2.2	5.8 2.7	6.8 3.5	4.9 1.8	4.7 1.5	4.6 1.8	5.1 1.7
2	5.8 2.4	5.4 2.3	5.5E 2.3	6.1 2.4	6.5 2.9	4.9 1.7	5.2 2.1	5.3 1.9	18	4.9 1.7	5.5 2.2	5.8 2.4	6.9 3.5	5.0 1.7	4.6 1.7	5.0 1.8	5.3 1.7
3	5.6 2.4	5.4 2.4	5.5 2.2E	6.1 2.4	6.4 2.9	5.1 2.2	5.1 2.1	5.2 1.7	19	5.2 1.8	5.8 2.6	6.0 2.5	6.8 3.5	4.8 1.3	4.6 1.7	4.9 1.8	5.7 1.8
4	5.6 2.3	5.8 2.6	5.8 2.4	6.2 2.4	6.2 2.6	5.3 2.4	5.0 1.9	5.2 1.6	20	5.5 2.2	5.9 2.5	6.2 2.5	7.2 3.3	4.8 1.6	4.7 2.0	5.2 1.9	5.8 1.8
5	5.3 2.2	6.1 2.8	6.2 3.0	6.2 2.5	6.2 2.6	5.2 2.4	4.8 1.7	5.2 1.6	21	5.6 2.5	6.0 2.5	6.2 2.4	7.5 3.8	5.2 1.6	5.0 2.1	5.3 1.7	5.7 1.8
6	5.5 2.3	6.2 2.9	6.9 3.0	6.3 2.6	6.3 2.6	5.3 2.4	4.9 1.8	5.4 1.7	22	5.8 2.6	6.1 2.4	6.1 2.4	7.2 4.1	5.3 2.0	5.0 1.9	5.7 1.8	5.9 1.9
7	5.7 2.5	6.2 2.9	6.6 3.0	6.2 2.8	6.1 2.8	5.2 2.4	5.0 1.7	5.4 1.5	23	6.0 2.6	6.1 2.5	6.1 2.4	6.9 3.8	5.4 2.2	5.1 1.7	6.0 1.9	5.7 1.8
8	5.9 2.7	6.6 2.8	6.8 2.9	6.1 2.7	5.8 2.7	5.3 2.3	5.2 1.9	5.4 1.5	24	6.1 2.6	6.0 2.4	6.4 2.4	6.6 3.6	5.2 2.3	5.7 2.3	5.8 2.0	5.6 2.0
9	6.4 2.6	6.6 2.9	7.0 3.0	5.8 2.7	5.5 2.6	5.3 2.2	5.5 1.9	5.3 1.4	25	6.2 2.6	6.2 2.4	6.6 2.7	6.3 3.4	5.0 2.0	5.7 1.8	5.9 2.0	5.3 2.1
10	6.5 3.0	6.3 2.8	6.7 3.2	6.0 2.7	5.3 2.5	5.2 2.0	5.3 1.6	5.0 1.3	26	6.4 2.7	6.2 2.5	6.0 2.8	6.3 3.3	5.2 2.1	5.7 2.0	5.5 1.9	5.1 1.8
11	6.5 2.9	6.3 2.5	6.6 3.1	5.8 3.0	5.2 2.4	5.1 1.7	5.3 1.6	4.8 1.2	27	6.4 2.8	6.2 2.7	5.7 2.6	6.5 3.3	5.3 2.0	5.4 1.7	5.1 1.6	4.9 1.6
12	6.4 2.7	6.5 2.6	6.4 3.2	5.9 3.0	5.2 2.3	5.1 1.7	5.8 2.5	4.7 1.5	28	6.2 2.7	5.9 2.5	5.5 2.5	6.5 3.2	5.3 2.0	5.1 1.6	4.6 1.3	4.8 1.8
13	6.4 2.5	6.3 2.8	5.9 3.0	5.6 2.7	5.6 2.6	5.1 1.6	5.3 1.6	4.5 1.4	29	6.1 2.5	5.4 2.2	5.4 2.4		5.4 2.0	5.0 1.7	4.5 1.3	4.9 2.0
14	6.7 2.7	5.8 2.7	5.9 2.8	5.7 2.8	5.2 2.1	5.1 1.6	4.8 1.7	4.7 1.5	30	6.0 2.5	5.1 2.0	5.6 2.4		5.4 2.0	5.1 2.1	4.6 1.7	5.1 1.8
15	6.1 2.9	5.4 2.4	5.8 2.7	6.0 2.7	5.0 1.8	4.9 1.4	4.6 1.3	4.7 1.8	31		4.9 2.0	5.6 2.3		5.2 1.6		5.0 2.1	
16	5.5 2.7	5.3 2.2	5.8 2.7	7.5 3.9	4.8 1.5	4.6 1.4	4.4 1.4	5.0 1.9									

Crest Stages	Date	Time	Stage

NR – No Record E – Estimated NOTE : Single daily values indicate daily mean stage only.

TABLE 303

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
MIDDLE RIVER AT BORDEN HIGHWAY

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June
1	NR NR	3.1 -0.2	NR NR	3.5 0.0	3.9 0.5	2.7 -0.8	3.1 -0.1	3.2 0.0	17	2.5 -0.7	2.9 -0.3	3.4 0.3	4.4 1.1	2.6 -0.4	2.5 -0.7	2.6 -0.3	3.2 -0.5
2	NR NR	3.0 -0.4	NR NR	3.7 0.0	4.0 0.3	2.8 -0.6	3.0 -0.2	3.2 -0.3	18	2.4 -0.9	3.0 -0.2	3.4 0.0	4.4 1.0	2.8 -0.6	2.5 -0.6	2.9 -0.4	3.4 -0.5
3	NR NR	2.9 -0.3	3.2 -0.1	3.8 0.0	3.9 0.4	3.0 0.0	3.0 -0.2	3.1 -0.5	19	2.7 -0.7	3.4 0.2	3.6 0.1	4.3 0.8	2.5 -0.9	2.5 -0.5	2.9 -0.4	3.8 -0.3
4	NR NR	3.3 -0.1	3.4 NR	3.9 0.1	3.7 0.1	3.2 0.2	2.9 -0.3	3.2 -0.6	20	3.0 -0.3	3.5 0.1	3.8 0.0	4.7 0.8	2.7 -0.7	2.6 -0.1	3.2 -0.4	3.8 -0.4
5	NR NR	3.7 0.2	NR NR	3.9 0.1	3.7 0.1	3.1 0.2	2.7 -0.6	3.2 -0.5	21	3.1 0.0	3.6 0.0	3.8 0.0	5.0 1.3	3.1 -0.3	3.0 -0.1	3.3 -0.6	3.7 -0.4
6	3.0 -0.3	3.8 0.4	NR NR	4.0 0.1	3.8 0.3	3.2 0.2	2.8 -0.5	3.4 -0.5	22	3.3 0.0	3.6 0.1	3.8 0.0	4.7 1.6	3.2 -0.1	3.1 -0.3	3.6 -0.5	3.9 -0.2
7	3.2 0.0	3.8 0.2	NR NR	3.9 0.4	3.7 0.3	3.2 0.2	2.9 -0.6	3.3 -0.7	23	3.5 0.0	3.6 -0.2	3.7 -0.1	4.4 1.3	3.2 0.1	3.2 -0.5	3.9 -0.4	3.7 -0.4
8	3.4 0.2	4.1 0.3	NR NR	3.8 0.3	3.4 0.3	3.3 0.1	3.1 -0.4	3.3 -0.6	24	3.7 0.0	NR NR	4.0 -0.1	4.1 1.0	3.0 0.0	3.8 0.2	3.7 -0.2	3.6 -0.2
9	3.9 0.2	4.2 0.3	NR NR	3.5 0.3	3.2 0.2	3.3 0.0	3.4 -0.4	3.3 -0.8	25	3.8 0.0	NR NR	4.2 0.2	3.8 0.9	2.8 -0.3	3.6 -0.4	3.8 -0.3	3.3 0.0
10	4.0 0.5	3.9 0.2	NR NR	3.7 0.3	2.9 0.1	3.1 -0.2	3.1 -0.6	3.0 -0.9	26	4.0 0.0	NR NR	3.6 0.4	3.6 0.8	3.0 -0.2	3.6 -0.3	3.5 -0.3	3.2 -0.2
11	4.0 0.3	3.9 -0.2	NR NR	3.5 0.6	2.9 0.0	3.0 -0.5	3.2 -0.7	2.8 -0.9	27	4.0 0.2	NR NR	3.3 0.1	4.0 0.9	3.1 -0.4	3.2 -0.6	3.0 -0.7	3.0 -0.5
12	3.9 0.1	4.0 -0.1	NR NR	3.5 0.6	2.8 0.0	3.0 -0.6	3.7 0.3	2.7 -0.7	28	3.7 0.1	NR NR	3.1 0.1	4.0 0.7	3.2 -0.4	2.9 -0.7	2.6 -0.9	2.9 -0.4
13	3.9 -0.1	3.8 0.2	NR NR	3.2 0.4	3.3 0.3	3.0 -0.6	3.1 -0.7	2.5 -0.7	29	3.6 -0.1	NR NR	3.0 -0.1		3.3 -0.4	2.8 -0.7	2.5 -0.9	3.0 -0.2
14	4.2 0.0	3.4 0.0	NR NR	3.3 0.4	2.9 -0.2	2.9 -0.6	2.7 -0.6	2.7 -0.6	30	3.5 -0.2	NR NR	3.2 0.0		3.2 -0.4	2.9 -0.2	2.6 -0.4	3.1 -0.3
15	3.7 0.3	3.0 -0.2	NR NR	3.7 0.3	2.7 -0.5	2.8 -0.7	2.5 -0.9	2.8 -0.4	31		NR NR	3.2 0.0		3.0 -0.8		2.9 0.0	
16	2.9 0.1	2.9 -0.4	NR NR	5.0 1.7	2.5 -0.8	2.5 -0.8	2.3 -0.8	3.0 -0.3									

Crest Stages.	Date	Time	Stage

NR – No Record NOTE : Single daily values indicate daily mean stage only

TABLE 304

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SOUTH FORK MOKELUMNE RIVER AT NEW HOPE BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	NR NR	3.1 0.1	2.9 -0.4	3.3 0.0	4.1 0.8	3.2 0.2	3.4 0.4	3.6 0.5	17	NR NR	3.1 0.0	3.5 0.4	4.7 2.1	2.9 -0.1	2.7 -0.2	3.0 0.2	3.5 -0.1
2	NR NR	2.9 -0.1	3.1 -0.2	3.6 0.0	4.1 0.7	3.2 0.4	3.4 0.4	3.5 0.3	18	NR NR	3.2 0.1	3.4 0.1	4.9 2.3	3.1 0.5	2.8 -0.1	3.3 0.1	3.7 0.0
3	NR NR	2.9 0.0	3.1 -0.3	3.8 0.1	3.8 0.5	3.4 0.8	3.4 0.4	3.4 0.0	19	NR NR	3.6 0.5	3.6 0.0	4.8 2.2	2.9 0.2	2.9 0.0	3.2 0.0	4.1 0.1
4	NR NR	3.4 0.2	3.5 0.0	4.0 0.3	3.8 0.4	3.7 1.0	3.3 0.2	3.5 -0.1	20	NR NR	3.6 0.4	3.7 0.1	5.1 2.3	3.1 0.4	3.0 0.3	3.5 0.0	4.1 0.0
5	NR NR	3.8 0.5	4.4 1.0	4.0 0.3	3.9 0.5	3.5 1.0	3.1 0.0	3.5 0.0	21	NR NR	3.7 0.3	3.8 0.0	5.3 2.3	3.6 0.7	3.4 0.4	3.6 -0.1	4.1 0.0
6	NR NR	3.8 0.7	4.6 0.7	4.1 0.3	4.0 0.7	3.7 1.0	3.1 -0.2	3.8 0.1	22	NR NR	3.8 0.3	3.8 0.0	5.1 2.4	3.7 0.9	3.5 0.2	4.0 0.1	4.2 0.2
7	NR NR	4.0 0.6	4.4 0.7	4.0 0.6	3.8 0.7	3.6 0.8	3.2 -0.1	3.6 -0.2	23	NR NR	3.7 0.3	3.7 0.0	4.7 2.2	3.8 0.9	3.6 0.0	4.3 0.2	4.0 0.0
8	NR NR	4.3 0.7	4.6 0.6	3.9 0.5	3.6 0.6	3.7 0.8	3.4 0.2	3.6 -0.1	24	NR NR	3.6 -0.1	4.1 0.0	4.4 1.7	3.6 1.0	4.2 0.6	4.1 0.3	3.8 0.3
9	NR NR	4.3 0.7	4.7 1.0	3.8 0.5	3.4 0.5	3.7 0.7	3.7 0.1	3.6 -0.4	25	NR NR	3.8 -0.1	4.2 0.4	4.1 1.5	3.4 0.8	4.0 0.3	4.1 0.3	3.6 0.5
10	NR NR	4.1 0.5	4.4 0.9	3.8 0.6	3.2 0.4	3.6 0.4	3.4 -0.2	3.2 -0.4	26	NR NR	3.9 -0.1	3.8 0.6	4.1 1.3	3.6 0.8	4.0 0.3	3.8 0.3	3.4 0.3
11	NR NR	4.1 0.3	4.3 0.8	3.7 0.9	3.2 0.4	3.3 0.1	3.5 -0.1	3.0 -0.5	27	NR NR	3.8 0.3	3.5 0.4	4.2 1.2	3.6 0.6	3.6 0.0	3.3 -0.1	3.3 -0.1
12	NR NR	4.2 0.3	4.0 1.0	3.8 1.0	3.2 0.3	3.3 0.1	4.0 0.8	3.0 -0.3	28	NR NR	3.5 0.0	3.3 0.3	4.2 1.0	3.7 0.6	3.2 -0.1	2.8 -0.4	3.3 0.0
13	NR NR	4.0 0.5	3.6 0.7	3.5 1.0	3.6 0.6	3.3 0.0	3.3 -0.1	3.0 -0.2	29	NR NR	3.1 -0.3	3.1 0.0		3.7 0.5	3.1 -0.1	2.8 -0.4	3.3 0.1
14	NR NR	3.6 0.4	3.6 0.6	3.6 0.9	3.0 0.0	3.1 0.0	2.9 0.0	3.0 -0.3	30	3.4 0.1	2.7 -0.5	3.2 0.2		3.7 0.5	3.2 0.4	2.9 0.0	3.5 0.2
15	NR NR	3.0 0.2	3.5 0.4	3.8 1.1	2.7 -0.3	2.9 -0.2	2.6 -0.4	3.1 0.0	31		2.6 -0.5	3.3 0.1		3.3 0.2		3.2 0.5	
16	NR NR	3.0 0.0	3.5 0.5	5.2 2.0	2.7 -0.4	2.6 -0.3	2.6 -0.3	3.3 0.1									

Crest Stages.	Date	
	Time	
	Stage	

NR— No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 305

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
MOKELUMNE RIVER NEAR THORNTON

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June
1					4.2 1.9	3.2 0.4	3.4 0.4	3.4 0.4	17					NR NR	2.8 -0.2	2.9 0.2	3.3 -0.2
2					4.2 1.8	3.2 0.6	3.4 0.4	3.4 0.1	18					NR NR	2.8 0.0	3.2 0.0	3.6 -0.2
3					3.9 1.6	3.2 1.0	3.3 0.4	3.3 -0.1	19				8.1 7.7	3.0 0.7	2.9 0.0	3.1 -0.2	3.8 0.0
4					3.9 1.6	3.7 1.2	3.2 0.3	3.3 -0.3	20				8.1 7.6	3.2 0.9	3.0 0.3	3.4 -0.2	3.9 -0.1
5					4.0 1.7	3.6 1.2	3.0 0.0	3.4 -0.2	21				6.5 5.9	3.6 1.2	3.4 0.4	3.5 -0.2	3.8 -0.1
6					4.1 1.7	3.7 1.2	3.1 -0.2	3.6 0.0	22				6.9 5.9	3.7 1.2	3.4 0.2	3.8 0.0	4.0 0.1
7					3.9 1.8	3.6 1.0	3.2 -0.2	3.5 -0.3	23				6.2 5.4	3.8 1.4	3.5 0.0	4.0 0.1	3.7 -0.1
8					3.8 1.7	3.7 1.0	3.3 0.2	3.5 -0.2	24				4.9 4.1	3.6 1.5	4.0 0.6	3.8 0.2	3.7 0.2
9					NR NR	3.7 0.8	3.6 0.0	3.4 -0.4	25				4.4 3.3	3.5 1.4	3.9 0.3	3.9 0.2	3.5 0.4
10					NR NR	3.6 0.5	3.4 -0.2	3.1 -0.5	26				4.2 2.7	3.7 1.1	3.9 0.5	3.7 0.2	3.3 0.2
11					NR NR	3.4 0.2	3.4 -0.2	3.0 -0.5	27				4.3 2.5	3.6 0.8	3.6 0.4	3.3 -0.2	3.1 -0.2
12					NR NR	3.4 0.2	3.8 0.7	2.9 -0.4	28				4.3 2.2	3.7 0.8	3.2 0.2	2.7 -0.4	3.1 -0.1
13					NR NR	3.3 0.0	3.3 -0.2	2.9 -0.3	29					3.7 0.7	3.1 0.0	2.7 -0.4	3.2 0.0
14					NR NR	3.2 0.1	2.9 -0.1	2.9 -0.4	30					3.7 0.8	3.3 0.5	2.8 -0.1	3.3 0.0
15					NR NR	2.9 -0.2	2.8 -0.4	3.0 -0.1	31					3.3 0.5		3.1 0.4	
16					NR NR	2.6 -0.2	2.6 -0.4	3.2 0.0									

Crest Stages	Date	
	Time	
	Stage	

NR— No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 306

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SNODGRASS SLOUGH AT TWIN CITIES ROAD BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov.	Dec	Jan.	Feb	Mar.	Apr.	May	June
1	4.4 2.2	4.3 2.1	3.7 1.4	NR NR	4.9 2.5	4.3 2.1	4.4 2.2	4.4 2.2	17	3.6 1.7	4.0 1.8	NR NR	5.6 3.8	3.9 1.5	3.8 1.5	3.9 2.0	4.2 1.8
2	4.4 2.1	4.1 2.0	3.9 1.5	NR NR	5.0 2.4	4.3 2.3	4.4 2.1	4.4 2.1	18	3.5 1.5	4.1 1.8	NR NR	5.8 3.8	4.1 2.3	3.8 1.7	4.2 1.8	4.4 1.9
3	4.3 2.1	4.0 2.0	3.9 1.4	NR NR	4.6 2.1	4.5 2.6	4.3 2.2	4.3 1.9	19	3.8 1.6	4.4 2.1	NR NR	5.8 4.3	4.0 2.0	3.8 1.7	4.0 1.8	4.7 2.1
4	4.0 2.1	4.4 2.1	4.2 1.7	NR NR	4.6 2.1	4.7 2.8	4.2 2.0	4.3 1.8	20	4.0 1.9	4.5 2.2	NR NR	6.1 4.3	4.3 2.2	3.9 2.0	4.3 1.8	4.8 2.1
5	4.0 1.9	4.7 2.3	5.2 2.6	NR NR	4.7 2.1	4.6 2.8	4.0 1.9	4.3 1.8	21	4.2 2.1	4.5 2.2	NR NR	6.2 4.4	4.6 2.6	4.2 2.1	4.3 1.8	4.7 2.0
6	4.0 2.0	4.7 2.6	5.3 2.9	NR NR	4.8 2.2	4.7 2.8	4.1 1.7	4.6 2.0	22	4.4 2.3	4.7 2.2	NR NR	6.0 4.4	4.7 2.6	4.3 2.0	4.7 2.1	4.9 2.2
7	4.2 2.1	4.8 2.5	5.1 2.6	4.7 2.4	4.5 2.4	4.6 2.6	4.2 1.8	4.5 1.8	23	4.5 2.3	4.6 2.2	NR NR	5.6 4.1	4.8 2.7	4.3 1.9	4.9 2.1	4.7 2.0
8	4.4 2.3	5.1 2.7	5.3 2.5	4.6 2.3	4.4 2.3	4.7 2.6	4.3 2.0	4.4 1.8	24	4.7 2.3	4.4 1.8	NR NR	5.2 3.5	4.6 2.8	4.8 2.3	4.8 2.2	4.6 2.2
9	4.9 2.7	5.1 2.7	5.4 2.8	4.6 2.2	4.2 2.2	4.7 2.5	4.6 2.0	4.4 1.6	25	4.8 2.4	4.5 1.7	NR NR	5.0 3.3	4.5 2.6	4.8 2.2	4.9 2.2	4.5 2.2
10	4.9 2.8	4.9 2.6	NR NR	4.6 2.3	4.0 2.1	4.6 2.2	4.4 1.8	4.1 1.5	26	4.9 2.4	4.6 1.8	NR NR	5.0 3.1	4.7 2.7	4.8 2.2	4.7 2.1	4.2 2.0
11	4.9 2.5	4.9 2.3	NR NR	4.4 2.5	4.0 2.0	4.4 2.0	4.5 1.8	4.0 1.5	27	4.9 2.5	4.6 2.1	NR NR	5.0 3.0	4.7 2.5	4.5 1.9	4.3 1.8	4.2 1.7
12	4.8 2.5	5.0 2.4	NR NR	4.5 2.5	3.9 1.9	4.3 1.9	4.8 2.5	3.9 1.6	28	4.7 2.5	4.3 1.8	NR NR	5.0 2.8	4.7 2.5	4.2 1.9	3.8 1.5	4.0 1.7
13	4.9 2.4	4.8 2.5	NR NR	4.3 2.3	4.3 2.2	4.3 1.7	4.4 1.7	3.6 1.6	29	4.7 2.2	3.9 1.6	NR NR		4.7 2.4	4.2 1.9	3.7 1.4	4.1 1.8
14	5.2 2.5	4.5 2.4	NR NR	4.4 2.2	3.9 1.6	4.2 1.7	4.0 1.8	3.8 1.5	30	4.6 2.2	3.6 1.4	NR NR		4.8 2.4	4.3 2.2	3.7 1.7	4.2 2.0
15	4.6 2.7	4.1 2.1	NR NR	4.7 2.6	3.6 1.3	4.0 1.5	3.8 1.4	3.8 1.7	31		3.5 1.3	NR NR		4.4 2.1		4.0 2.2	
16	3.9 2.1	4.0 1.9	NR NR	6.1 3.6	3.6 1.2	3.7 1.5	3.6 1.5	4.1 1.8									

Crest Stages.	Date	Time	Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 307

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SAN JOAQUIN RIVER AT VENICE ISLAND

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June
1	6.9 3.4	6.7 3.2	6.4 3.0	7.0 3.4	7.5 3.9	6.4 2.8	6.8 3.5	7.0 3.7	17	6.0 2.7	6.5 3.1	6.9 3.8	8.0 4.6	6.3 3.2	6.2 3.0	6.4 3.3	7.0 3.2
2	6.9 3.3	6.5 3.1	6.7 3.3	7.3 3.4	7.5 3.8	6.5 3.0	6.8 3.5	7.0 3.4	18	5.9 2.6	6.7 3.3	6.9 3.5	8.0 4.5	6.4 3.0	6.3 3.1	6.7 3.3	7.2 3.2
3	6.7 3.3	6.4 3.2	6.7 3.3	7.4 3.4	7.4 3.7	6.7 3.6	6.8 3.5	6.9 3.2	19	6.3 2.8	7.0 3.8	7.0 3.5	7.9 4.3	6.2 2.7	6.3 3.2	6.6 3.1	7.6 3.3
4	6.3 3.3	6.9 3.4	7.0 3.4	7.5 3.5	7.2 3.5	6.9 3.8	6.6 3.3	6.9 3.1	20	6.5 3.2	7.1 3.6	7.3 3.4	8.3 4.7	6.4 3.0	6.5 3.5	6.9 3.1	7.6 3.2
5	6.3 3.2	7.2 3.7	7.8 4.2	7.5 3.6	7.3 3.6	6.8 3.8	6.4 3.0	7.0 3.1	21	6.6 3.4	7.1 3.4	7.3 3.4	8.6 5.0	6.8 3.3	6.8 3.5	7.0 3.0	7.6 3.2
6	6.5 3.2	7.3 3.8	8.3 4.0	7.7 3.9	7.4 3.8	7.0 3.9	6.5 3.0	7.2 3.2	22	6.9 3.5	7.3 3.4	7.3 3.3	8.3 5.0	7.0 3.5	6.9 3.3	7.4 3.2	7.7 3.4
7	6.8 3.5	7.4 3.6	7.9 3.8	7.6 3.9	7.2 3.8	6.9 3.8	6.6 3.0	7.1 3.0	23	7.0 3.5	7.2 3.3	7.2 3.4	7.9 4.7	7.0 3.7	7.0 3.2	7.7 3.2	7.5 3.2
8	7.0 3.7	7.7 3.7	8.2 3.8	7.4 3.8	7.0 3.8	7.1 3.7	6.8 3.3	7.1 3.1	24	7.2 3.5	7.1 3.2	7.6 3.4	7.4 4.4	6.8 3.4	7.6 3.8	7.5 3.3	7.3 3.5
9	7.5 4.0	7.8 3.5	8.2 4.0	7.2 3.8	6.8 3.7	7.1 3.6	7.1 3.2	7.0 2.8	25	7.3 3.5	7.4 3.2	7.7 3.7	7.4 4.4	6.6 3.3	7.5 3.3	7.5 3.3	7.1 3.7
10	7.6 3.7	7.5 3.5	7.9 4.1	7.2 3.8	6.6 3.7	6.9 3.4	6.8 3.0	6.7 2.8	26	7.5 3.5	7.5 3.3	7.2 3.8	7.4 4.3	6.8 3.4	7.4 3.3	7.2 3.3	6.8 3.5
11	7.6 3.7	7.5 3.3	7.8 4.0	7.1 4.1	6.5 3.6	6.7 3.2	6.9 3.0	6.5 2.8	27	7.5 3.6	7.4 3.7	6.9 3.6	7.6 4.3	6.9 3.2	7.0 3.0	6.8 3.0	6.7 3.2
12	7.5 3.5	7.7 3.3	7.5 4.1	7.1 4.1	6.5 3.5	6.8 3.1	7.4 3.9	6.4 3.0	28	7.2 3.5	7.0 3.4	6.7 3.6	7.6 4.1	6.9 3.2	6.6 2.9	6.2 2.8	6.8 3.4
13	7.5 3.3	7.4 3.5	7.0 3.9	6.8 3.9	6.9 3.8	6.7 3.1	6.8 3.0	6.4 3.1	29	7.2 3.3	6.6 3.1	6.6 3.4		7.0 3.2	6.5 2.9	6.2 2.8	6.8 3.5
14	7.8 3.5	7.0 3.4	7.0 3.7	6.9 4.0	6.4 3.4	6.6 3.1	6.3 3.1	6.5 3.1	30	7.0 3.3	6.2 2.9	6.8 3.5		6.9 3.2	6.6 3.4	6.3 3.2	6.9 3.4
15	7.2 3.7	6.5 3.2	6.9 3.7	7.2 3.9	6.2 3.0	6.4 2.9	6.2 2.7	6.5 3.3	31		6.1 2.9	6.8 3.5		6.6 2.8		6.7 3.7	
16	6.3 3.3	6.4 3.1	6.9 3.8	8.7 5.2	6.1 2.8	6.2 2.9	6.0 2.9	6.8 3.4									

Crest Stages.	Date	Time	Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 308

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
DELTA CROSS CHANNEL AT WALNUT GROVE

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan.	Feb	Mar.	Apr	May	June		Nov .	Dec.	Jan	Feb	Mar	Apr	May	June
1	5.0 2.3	4.7 2.2	4.3 1.3	4.6 1.6	5.4 2.3	4.6 2.2	4.7 2.2	NR NR	17	4.2 1.7	4.6 1.9	4.8 1.9	5.9 3.4	4.2 1.4	4.1 1.6	4.2 2.1	4.4 2.0
2	5.0 2.2	4.5 2.0	4.5 1.5	5.0 1.7	5.4 2.2	4.7 2.3	4.7 2.2	NR NR	18	4.1 1.5	4.7 2.0	4.8 1.7	6.0 3.7	4.6 2.4	4.2 1.7	4.5 1.9	4.7 2.1
3	4.8 2.2	4.5 2.0	4.4 1.4	5.2 1.8	5.1 2.0	4.9 2.7	4.6 2.2	NR NR	19	4.4 1.6	5.0 2.3	4.9 1.6	5.9 3.6	4.3 2.1	4.2 1.7	4.4 1.9	5.0 2.2
4	4.4 2.2	5.0 2.2	4.8 1.7	5.3 1.9	5.0 1.9	5.2 2.9	4.6 2.1	NR NR	20	4.6 2.0	5.1 2.4	5.0 1.7	6.3 3.8	4.6 2.3	4.3 2.0	4.7 1.9	5.0 2.2
5	4.4 2.0	5.3 2.5	5.8 2.8	5.3 1.9	5.1 2.0	5.0 2.9	4.4 1.9	NR NR	21	4.7 2.2	5.1 2.3	5.2 1.7	6.5 3.8	5.1 2.6	4.7 2.2	4.7 1.9	5.0 2.2
6	4.6 2.0	5.3 2.6	5.9 2.3	5.4 1.9	5.3 2.2	5.2 2.8	4.4 1.8	NR NR	22	5.0 2.3	5.3 2.3	5.1 1.7	6.3 3.9	5.2 2.8	4.7 2.0	5.1 2.1	5.1 2.3
7	4.9 2.2	5.4 2.5	5.7 2.3	5.4 2.2	5.0 2.1	5.0 2.7	4.5 1.8	NR NR	23	5.1 2.3	5.1 2.3	5.1 1.6	5.8 3.7	5.3 2.9	4.8 1.8	5.3 2.1	4.9 2.2
8	5.1 2.3	5.7 2.6	5.9 2.2	5.2 2.1	4.8 2.1	5.2 2.7	4.7 2.0	NR NR	24	5.3 2.4	5.0 1.6	5.4 1.7	5.6 3.2	5.0 2.8	5.4 2.3	5.2 2.2	4.8 2.4
9	5.6 2.7	5.8 2.6	6.0 2.6	5.1 2.1	4.7 2.0	5.2 2.6	4.9 2.0	NR NR	25	5.4 2.4	5.1 1.6	5.6 2.0	5.4 3.0	4.9 2.7	5.3 2.1	5.3 2.2	4.7 2.5
10	5.5 2.7	NR NR	5.7 2.6	5.1 2.1	4.4 1.8	5.0 2.2	4.7 1.8	4.4 1.6	26	5.6 2.4	5.3 1.7	5.1 2.2	5.4 2.8	5.1 2.7	5.2 2.1	5.0 2.2	4.5 2.3
11	5.6 2.5	NR NR	5.6 2.4	4.9 2.3	4.4 1.8	4.8 2.0	4.8 1.8	4.2 1.6	27	5.5 2.5	5.2 2.0	4.9 2.0	5.5 2.7	5.1 2.5	4.9 1.8	NR NR	4.5 2.0
12	5.6 2.4	5.7 2.3	5.3 2.6	5.0 2.4	4.4 1.8	4.8 1.9	5.2 2.6	4.2 1.8	28	5.3 2.4	4.8 1.7	4.6 1.9	5.5 2.5	5.2 2.5	4.6 1.8	NR NR	4.3 2.0
13	5.6 2.3	5.4 2.5	4.9 2.3	4.7 2.4	4.8 2.1	4.7 1.8	4.7 1.8	4.1 1.8	29	5.2 2.2	4.5 1.5	4.5 1.7		5.2 2.4	4.5 1.8	NR NR	4.3 2.1
14	5.8 2.4	5.0 2.4	4.9 2.1	4.8 2.3	4.3 1.5	4.6 1.8	4.2 1.9	4.1 1.7	30	5.1 2.2	4.1 1.3	4.6 1.8		5.2 2.4	4.6 2.2	NR NR	4.5 2.2
15	5.2 2.6	4.6 2.2	4.8 2.0	5.1 2.6	4.0 1.2	4.3 1.6	4.1 1.6	4.1 1.9	31		4.0 1.2	4.6 1.7		4.8 2.1		NR NR	
16	4.4 2.0	4.5 1.9	4.8 2.0	6.4 3.5	3.9 1.1	4.0 1.5	3.9 1.6	4.3 2.0									

Crest Stages.	Date	Time	Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 309

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER AT WALNUT GROVE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June
1	3.6 0.7	3.4 0.6	3.4 0.2	4.8 2.8	6.7 5.0	3.3 0.7	3.6 0.7	3.6 0.8	17	2.8 0.2	3.2 0.3	5.5 3.8	5.8 3.8	3.5 1.6	2.8 0.1	3.1 0.5	3.4 0.3
2	3.5 0.6	3.2 0.5	3.6 0.6	5.1 2.9	6.2 4.2	3.4 0.8	3.5 0.6	3.6 0.6	18	2.7 0.0	3.3 0.4	5.0 3.1	7.0 5.5	3.5 0.9	2.8 0.2	3.4 0.4	3.7 0.3
3	3.4 0.6	3.2 0.5	3.7 0.5	5.3 2.8	5.6 3.5	3.7 1.2	3.5 0.7	3.4 0.3	19	3.0 0.1	3.7 0.8	4.8 2.6	8.0 7.0	3.0 0.6	2.9 0.2	3.3 0.3	4.1 0.5
4	3.0 0.6	3.6 0.7	4.0 0.8	5.2 2.5	5.2 3.2	3.9 1.4	3.4 0.6	3.5 0.2	20	3.3 0.5	3.8 0.8	4.7 2.3	8.6 7.5	3.3 0.8	3.1 0.5	3.6 0.3	4.1 0.4
5	3.0 0.4	4.0 0.9	5.0 1.5	5.0 2.2	5.2 3.0	3.8 1.4	3.2 0.3	3.5 0.2	21	3.4 0.7	3.8 0.7	4.8 2.1	8.9 7.6	3.8 1.1	3.5 0.6	3.7 0.3	4.1 0.4
6	3.3 0.4	4.0 1.1	5.3 1.5	5.0 2.1	5.2 2.8	4.0 1.3	3.3 0.2	3.7 0.3	22	3.6 0.8	3.9 0.7	4.7 1.9	8.6 7.2	4.0 1.3	3.5 0.4	4.0 0.5	4.2 0.5
7	3.5 0.6	4.1 1.0	5.3 1.9	4.9 2.1	4.9 2.6	3.8 1.2	3.3 0.2	3.6 0.1	23	3.8 0.8	4.2 0.8	4.6 1.8	8.3 6.9	4.0 1.4	3.6 0.3	4.3 0.5	3.9 0.4
8	3.7 0.8	4.4 1.0	5.6 2.3	4.7 1.9	4.6 2.5	4.0 1.2	3.5 0.5	3.6 0.2	24	3.9 0.8	4.2 0.8	4.9 1.8	8.0 6.9	3.8 1.2	4.1 0.8	4.1 0.6	3.8 0.6
9	4.2 1.2	4.5 0.9	5.6 2.3	4.6 1.8	4.4 2.5	4.0 1.1	3.8 0.4	3.6 0.0	25	4.0 0.5	4.3 0.8	5.1 2.0	7.7 6.6	3.7 1.2	4.0 0.6	4.2 0.6	3.6 0.8
10	4.2 0.9	4.3 0.9	5.5 2.4	4.5 1.8	4.2 2.3	3.8 0.7	3.5 0.2	3.2 -0.1	26	4.2 0.8	4.4 0.8	4.6 2.1	7.6 6.3	3.9 1.2	4.0 0.5	3.9 0.6	3.4 0.6
11	4.3 0.9	4.3 0.7	5.8 3.2	4.3 2.0	4.2 2.2	3.5 0.5	3.6 0.2	3.1 -0.1	27	4.2 0.9	4.4 1.1	4.5 2.0	7.5 6.1	3.9 1.0	3.7 0.3	3.4 0.2	3.3 0.3
12	4.2 0.9	4.4 0.7	5.6 3.7	4.5 2.4	4.1 2.1	3.5 0.4	4.0 1.0	3.0 0.1	28	4.0 0.9	4.0 0.9	4.3 2.3	7.2 5.7	3.9 1.0	3.4 0.3	2.9 0.0	3.3 0.4
13	4.3 0.7	4.2 0.9	5.5 3.6	4.2 2.4	4.4 2.3	3.4 0.3	3.5 0.2	3.0 0.1	29	3.9 0.7	3.6 0.7	4.2 2.2		4.0 0.9	3.2 0.3	2.9 -0.1	3.5 0.5
14	4.5 0.9	3.7 0.8	5.9 4.2	4.1 2.3	3.8 1.8	3.3 0.3	3.0 0.3	3.1 0.0	30	3.7 0.7	3.2 0.5	4.5 2.4		3.9 1.0	3.4 0.7	3.0 0.2	3.5 0.5
15	3.9 1.1	3.2 0.6	6.0 4.8	4.3 2.2	3.5 1.5	3.0 0.1	2.9 0.0	3.1 0.3	31		3.1 0.4	4.7 2.7		3.5 0.6		3.3 0.7	
16	3.0 0.5	3.2 0.4	5.9 4.5	5.9 3.1	3.3 1.4	2.7 0.0	2.7 0.0	3.3 0.4									

Crest Stages.	Date	Time	Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 310

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
MIDDLE RIVER AT BACON ISLAND

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr	May	June
1	6.4 2.8	6.1 2.7	5.9 2.5	6.5 2.9	6.9 3.4	5.9 2.3	6.2 3.0	6.4 3.2	17	5.5 2.2	5.9 2.6	6.4 3.3	7.4 4.1	5.7 2.7	5.6 2.4	5.8 2.8	6.4 2.7
2	6.3 2.8	5.9 2.5	6.1 2.8	6.7 2.9	7.0 3.3	5.9 2.5	6.2 3.0	6.4 2.9	18	5.4 2.1	6.1 2.8	6.3 3.0	7.4 4.0	5.8 2.5	5.7 2.6	6.1 2.7	6.6 2.7
3	6.1 2.8	5.6 2.6	6.2 2.7	6.8 2.9	6.9 3.2	6.1 3.0	6.2 3.0	6.3 2.6	19	5.7 2.3	6.4 3.2	6.5 3.0	7.3 3.8	5.6 2.2	5.7 2.7	6.0 2.6	7.0 2.8
4	5.8 2.8	6.3 2.8	6.5 2.9	6.9 3.0	6.7 2.9	6.3 3.3	6.1 2.8	6.3 2.5	20	6.0 2.7	6.5 3.0	6.7 3.0	7.7 4.2	5.8 2.4	5.9 3.0	6.4 2.6	7.0 2.7
5	5.8 2.7	6.6 3.2	7.1 3.7	6.9 3.0	6.7 3.0	6.3 3.3	5.9 2.6	6.4 2.6	21	6.1 2.9	6.6 2.9	6.8 2.9	8.0 4.6	6.3 2.8	6.2 3.0	6.5 2.5	7.0 2.7
6	6.0 2.7	6.7 3.3	7.6 3.4	7.1 3.3	6.8 3.3	6.4 3.4	6.0 2.5	6.6 2.7	22	6.3 3.0	6.7 2.9	6.7 2.9	7.7 4.6	6.4 3.0	6.3 2.8	6.8 2.7	7.1 2.8
7	6.2 3.0	6.8 3.1	7.3 3.3	7.0 3.3	6.7 3.2	6.4 3.2	6.1 2.5	6.5 2.4	23	6.5 3.0	6.7 2.8	6.7 2.9	7.3 4.2	6.4 3.2	6.4 2.6	7.1 2.7	6.9 2.7
8	6.4 3.2	7.1 3.2	7.0 3.5	6.8 3.2	6.4 3.1	6.5 3.2	6.2 2.8	6.5 2.5	24	6.6 3.0	6.6 2.7	7.0 2.9	7.1 3.9	6.0 2.9	7.0 3.3	6.9 2.8	6.8 3.0
9	6.9 3.4	7.2 3.0	NR NR	6.6 3.3	6.2 3.1	6.4 3.1	6.6 2.6	6.4 2.3	25	6.7 3.0	6.8 2.7	7.2 3.2	6.8 3.8	6.0 2.8	6.9 2.8	7.0 2.8	6.5 3.1
10	7.0 3.2	6.9 3.0	NR NR	6.7 3.3	6.0 3.1	6.3 2.8	6.3 2.5	6.1 2.2	26	6.9 3.0	6.8 2.8	6.6 3.3	6.9 3.8	6.3 2.9	6.8 2.8	6.7 2.8	6.2 2.9
11	7.0 3.2	6.9 2.7	NR NR	6.5 3.6	6.0 3.1	6.1 2.6	6.3 2.5	6.0 2.2	27	6.9 3.1	6.7 3.1	6.4 3.0	7.0 3.8	6.3 2.6	6.4 2.5	6.2 2.5	6.1 2.7
12	6.9 3.0	7.1 2.8	NR NR	6.5 3.6	5.9 3.0	6.2 2.6	6.8 3.4	5.8 2.5	28	6.7 3.0	6.5 2.8	6.2 3.1	7.0 3.6	6.3 2.7	6.1 2.4	5.7 2.3	6.1 2.8
13	6.9 2.8	6.8 3.0	6.3 3.4	6.2 3.4	6.3 3.3	6.1 2.5	6.2 2.5	5.5 2.5	29	6.6 2.8	6.1 2.6	6.1 2.9		6.4 2.6	5.9 2.4	5.7 2.2	6.2 2.9
14	7.2 2.9	6.4 2.9	6.4 3.2	6.3 3.5	5.9 2.8	6.0 2.6	5.8 2.6	5.9 2.5	30	6.4 2.7	5.7 2.4	6.2 3.0		6.3 2.7	6.0 2.9	5.8 2.7	6.4 2.9
15	6.6 3.2	6.0 2.7	6.3 3.2	6.6 3.3	5.7 2.5	5.8 2.4	5.7 2.2	6.0 2.8	31		5.5 2.3	6.3 3.0		6.1 2.3		6.1 3.2	
16	5.8 2.8	5.9 2.6	6.4 3.3	8.1 4.6	5.5 2.3	5.6 2.3	5.5 2.3	6.2 2.9									

Crest Stages.	Date	Time	Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 311

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER AT CLARKSBURG

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	7.1 5.1	7.0 5.0	7.0 4.7	10.3 9.4	13.8	7.8 6.4	7.1 5.1	7.1 4.8	17	6.5 4.8	6.7 4.6	11.9 10.9	11.0	8.1 7.1	6.3 4.1	6.7 4.9	6.9 4.2
2	7.1 5.0	6.8 4.9	7.1 4.8	10.6 9.6	12.8 11.8	7.9 6.6	7.0 5.0	7.1 4.7	18	6.4 4.6	6.8 4.6	10.9 9.6	14.5	8.0 6.7	6.3 4.2	7.0 4.7	7.2 4 3
3	7.0 5.0	6.8 4.9	7.2 4.7	10.6 9.3	11.8 10.6	8.0 6.7	7.0 5.1	6.9 4.4	19	6.6 4.5	7.2 4.9	10.1 8.8	17.0	7.6 6.4	6.4 4.3	6.8 4.7	7.6 4.5
4	6.6 5.0	7.2 5.0	7.5 4.9	10.1 8.6	10.9 10.0	8.2 6.8	7.0 4.9	6.9 4.2	20	6.9 4.8	7.2 5.0	9.6 8.7	17.9 17.7	7.7 6.5	6.5 4.6	7.1 4.7	7.6 4.5
5	6.6 4.8	7.5 5.2	8.8 5.6	9.6 8.4	10.7 9.5	8.1 6.8	6.8 4.8	6.9 4.3	21	7.0 5.0	7.3 5.0	9.4 8.3	18.0 17.7	8.1 6.6	7.0 4.6	7.2 4.7	7.5 4.4
6	6.8 4.8	7.6 5.5	8.9 5.9	9.3 7.9	10.4 9.5	8.2 6.7	6.8 4.6	7.2 4.4	22	7.2 5.2	7.4 5.0	9.2 7.9	17.7 17.3	8.2 6.6	7.0 4.5	7.6 4.9	7.7 4.6
7	7.0 5.0	7.7 5.4	9.0 5.9	9.0 7.6	10.0 9.1	8.0 6.5	6.8 4.6	7.0 4.2	23	7.4 5.2	7.5 5.0	9.0 7.2	17.2 16.9	8.3 6.8	7.0 4.3	7.8 4.9	7.4 4.4
8	7.2 5.1	8.0 5.5	9.5 6.8	8.7 7.2	9.7 8.7	8.1 6.5	7.0 5.0	7.1 4.3	24	7.5 5.2	7.7 5.1	9.1 7.3	16.9 16.6	8.2 6.9	7.7 4.7	7.6 4.9	7.3 4.6
9	7.8 5.4	8.1 5.5	9.5 7.5	8.7 7.0	9.4 8.4	7.9 6.2	7.3 4.8	7.0 4.0	25	7.6 5.3	7.8 5.1	9.3 7.4	16.5 16.2	8.2 6.9	7.5 4.8	7.8 5.0	7.1 4.7
10	7.7 5.6	7.8 5.5	10.3 7.5	8.6 7.0	9.2 8.2	7.6 5.5	7.0 4.6	6.6 3.9	26	7.8 5.3	8.0 5.1	9.0 7.5	16.0 15.7	8.3 6.8	7.5 4.8	7.4 4.9	6.9 4.5
11	7.8 5.3	7.8 5.3	11.2 9.6	8.9 7.1	9.1 8.0	7.2 5.1	7.1 4.7	6.5 3.8	27	7.8 5.4	7.9 5.5	9.4 7.8	15.7 15.3	8.2 6.7	7.2 4.8	6.9 4.5	6.7 4.2
12	7.8 5.4	8.0 5.3	11.3 10.3	9.4 8.2	8.9 7.9	7.1 5.1	7.6 5.3	6.4 4.0	28	7.5 5.3	7.5 5.2	9.2 8.3	14.9	8.2 6.6	7.0 4.9	6.5 4.2	6.7 4.3
13	7.9 5.3	7.7 5.4	12.0 10.6	9.1 8.1	9.2 8.0	7.0 4.9	7.0 4.6	6.2 4.0	29	7.5 5.1	7.2 5.2	9.2 8.4		8.1 6.4	6.8 4.8	6.4 4.1	6.8 4.3
14	8.1 5.5	7.2 5.2	13.1 12.0	8.7 7.6	8.6 7.5	6.9 4.8	6.5 4.7	6.4 3.9	30	7.3 5.1	6.8 5.0	9.7 8.5		8.2 6.4	7.0 5.1	6.4 4.3	7.0 4.6
15	7.4 5.5	6.7 5.0	13.3 13.0	8.6 7.5	8.3 7.2	6.5 4.4	6.4 4.4	6.5 4.1	31		6.6 4.7	10.1 9.1		7.7 6.2		6.7 4.8	
16	6.7 5.0	6.7 4.7	12.9 12.2	10.1 8.1	8.1 7.0	6.2 4.2	6.3 4.5	6.8 4.2									

Crest Stages.	Date	Time	Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 312

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER AT SNODGRASS SLOUGH

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	6.6 4.3	6.4 4.2	6.5 3.9	NR NR	12.1 11.0	6.8 5.0	6.6 4.2	6.6 4.1	17	5.9 3.9	6.2 3.8	NR NR	10.2 8.2	7.1 5.8	5.8 3.4	6.2 4.1	6.4 3.6
2	6.1 4.2	6.2 4.1	6.7 4.0	NR NR	11.0 9.8	6.9 5.2	6.6 4.2	6.6 4.0	18	5.8 3.7	6.3 3.9	NR NR	12.1	7.1 5.3	5.8 3.5	6.5 3.9	6.7 3.6
3	6.4 4.2	6.2 4.1	6.7 3.9	NR NR	10.2 8.7	7.1 5.4	6.5 4.3	6.4 3.7	19	6.1 3.7	6.7 4.2	NR NR	14.3	6.6 5.0	5.9 3.6	6.3 3.8	7.1 3.8
4	6.1 4.2	6.7 4.2	NR NR	NR NR	9.4 8.1	7.4 5.4	6.5 4.1	6.4 3.6	20	6.3 4.0	6.7 4.4	NR NR	15.2 14.8	6.8 5.1	NR NR	6.6 3.8	7.1 3.8
5	6.1 4.0	7.0 4.4	NR NR	NR NR	9.3 7.8	7.2 5.6	6.3 3.9	6.5 3.6	21	6.4 4.2	6.8 4.2	NR NR	15.4 14.8	7.2 5.3	NR NR	6.7 3.8	7.0 3.7
6	6.3 4.0	7.1 4.7	NR NR	NR NR	9.1 7.5	7.4 5.4	6.3 3.8	6.7 3.7	22	6.2 4.3	6.9 4.2	NR NR	15.0 14.3	7.4 5.5	NR NR	7.1 4.0	7.2 3.9
7	6.5 4.1	7.2 4.6	NR NR	8.2 6.4	8.8 7.2	7.2 5.3	6.4 3.8	6.6 3.5	23	6.8 4.4	7.0 4.2	NR NR	14.6 14.0	7.5 5.7	NR NR	7.3 4.1	6.9 3.7
8	6.7 4.3	7.5 4.6	NR NR	8.0 6.0	8.5 7.2	7.4 5.3	6.6 4.1	6.6 3.6	24	7.0 4.4	7.2 4.3	NR NR	14.3 13.9	7.3 5.6	7.2 4.0	7.1 4.1	6.8 3.9
9	7.3 4.4	7.6 4.7	NR NR	7.9 6.0	8.2 7.0	7.2 5.0	6.8 4.0	6.5 3.4	25	7.1 4.4	7.3 4.3	NR NR	14.0 13.5	7.2 5.6	7.0 4.0	7.3 4.2	6.6 4.0
10	7.2 4.7	7.3 4.6	NR NR	7.8 5.8	8.0 6.8	7.0 4.6	6.5 3.8	6.2 3.2	26	7.3 4.5	7.5 4.3	NR NR	13.6 13.1	7.4 5.5	7.0 4.0	6.9 4.1	6.1 3.8
11	7.3 4.5	7.3 4.4	NR NR	7.8 6.0	7.9 6.6	6.6 4.2	6.6 3.8	6.0 3.2	27	7.2 4.6	7.4 4.6	NR NR	13.3 12.8	7.3 5.3	6.7 3.9	6.4 3.7	6.2 3.5
12	7.2 4.5	7.5 4.4	NR NR	8.3 6.8	7.8 6.5	6.6 4.2	7.1 4.5	5.9 3.3	28	7.0 4.5	7.0 4.4	NR NR	12.9 12.1	7.4 5.3	6.4 4.0	5.9 3.4	6.2 3.6
13	7.3 4.4	7.2 4.6	NR NR	8.0 6.3	8.1 6.7	6.4 4.0	6.5 3.8	6.0 3.4	29	6.9 4.3	6.7 4.3	NR NR		7.3 5.2	6.3 3.9	5.9 3.3	6.3 3.7
14	7.5 4.5	6.8 4.4	NR NR	7.7 6.4	7.6 6.2	6.3 3.9	6.0 3.8	6.0 3.2	30	6.8 4.3	6.3 4.1	NR NR		7.3 5.2	6.5 4.3	6.0 3.6	6.5 3.9
15	6.9 4.6	6.2 4.1	NR NR	7.7 6.3	7.2 5.8	6.0 3.6	5.8 3.5	6.0 3.5	31		6.1 3.9	NR NR		6.9 4.9		6.3 4.1	
16	6.1 4.1	6.2 3.9	NR NR	9.3 7.0	7.0 5.6	5.7 3.4	5.8 3.6	6.3 3.6									

Crest Stages:		
	Date	
	Time	
	Stage	

NR— No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 313

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER NEAR FREEPORT

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	4.1 2.5	4.0 2.5	3.9 2.0	8.4 7.8	12.8	5.3 4.4	4.1 2.4	4.0 1.9	17	3.8 2.3	3.7 2.0	10.2	9.3	5.7 5.0	3.2 1.3	3.7 2.2	3.8 1.3
2	4.1 2.4	3.9 2.4	4.1 2.1	8.6 8.0	11.3	5.4 4.4	4.0 2.3	4.0 1.8	18	3.4 2.1	3.8 2.0	8.8	13.5	5.6 4.6	3.1 1.4	4.0 2.0	4.1 1.4
3	4.0 2.4	3.9 2.5	4.1 2.0	8.6 8.0	9.9	5.5 4.5	4.0 2.5	3.8 1.5	19	3.6 2.1	4.1 2.2	7.7	16.4	5.2 4.6	3.3 1.5	3.8 2.0	4.5 1.6
4	4.0 2.4	4.3 2.6	4.4 2.1	7.8 7.3	9.0	5.6 4.6	4.0 2.4	3.8 1.3	20	3.9 2.3	4.2 2.3	7.4 6.8	17.2	5.3 4.4	3.4 1.5	4.0 2.0	4.4 1.6
5	3.6 2.2	4.5 2.7	5.9 2.4	7.1 6.4	8.8 8.4	5.5 4.6	3.8 2.2	3.8 1.4	21	4.0 2.5	4.2 2.3	7.1 6.3	17.1	5.5 4.4	3.9 1.8	4.1 1.9	4.4 1.5
6	3.8 2.1	4.6 2.9	5.8 3.5	6.7 5.6	8.3 7.8	5.6 4.6	3.8 2.0	4.1 1.5	22	4.2 2.6	4.3 2.3	6.7 5.9	16.7	5.6 4.5	3.8 1.7	4.5 2.1	4.6 1.6
7	4.0 2.3	4.7 2.8	6.0 3.2	6.4 5.3	NR	5.4 4.3	3.8 2.0	3.9 1.3	23	4.4 2.7	4.5 2.3	6.4 5.5	16.3	5.8 4.6	3.9 1.5	4.7 2.1	4.2 1.5
8	4.2 2.4	5.0 2.9	6.7 4.5	6.0 5.0	NR	5.4 4.2	4.0 2.3	3.9 1.4	24	4.5 2.7	4.6 2.5	6.5 5.2	16.0	5.7 4.8	4.6 1.8	4.5 2.2	4.1 1.7
9	4.8 2.5	5.0 3.0	6.8 5.2	6.0 4.7	NR	5.2 3.8	4.3 2.1	3.9 1.1	25	4.6 2.7	4.8 2.5	6.7 5.2	15.6	5.7 4.8	4.4 2.0	4.7 2.3	3.9 1.8
10	4.6 2.9	4.8 2.9	6.8	5.9 4.7	7.0 6.3	4.7 3.1	4.0 1.9	3.5 1.0	26	4.8 2.8	5.0 2.5	6.6 5.4	15.1	5.8 4.7	4.4 2.0	4.3 2.2	3.8 1.6
11	4.8 2.6	4.8 2.8	9.3 8.0	6.6 4.8	6.8 6.2	4.3 2.6	4.1 2.0	3.3 0.9	27	4.8 2.9	4.8 2.8	7.1 5.9	14.6	5.6 4.6	4.1 2.2	3.8 1.7	3.8 1.4
12	4.8 2.7	5.0 2.8	9.5 8.8	7.1 6.3	6.7 6.0	4.2 2.6	4.5 2.6	3.2 1.1	28	4.5 2.8	4.5 2.6	7.0 6.4	13.9	5.6 4.4	4.1 2.4	3.4 1.5	3.6 1.4
13	4.9 2.7	4.6 2.9	9.8E	6.8 6.1	6.8 6.0	4.0 2.3	4.0 1.9	3.1 1.1	29	4.5 2.6	4.2 2.6	7.0 6.3		5.5 4.3	3.9 2.3	3.3 1.4	3.7 1.5
14	5.0 2.9	4.2 2.6	11.5	6.3 5.4	6.4 5.6	3.9 2.1	3.5 2.0	3.3 1.0	30	4.3 2.6	3.8 2.4	7.6 6.7		5.6 4.2	4.0 2.5	3.4 1.5	3.8 1.8
15	4.4 2.9	3.7 2.4	12.2	6.0 5.2	6.0 5.2	3.5 1.8	3.4 1.7	3.4 1.2	31		3.6 2.1	8.2 7.5		5.1 4.2		3.7 1.9	
16	3.8 2.4	3.6 2.1	11.6	7.4 5.8	5.8 5.0	3.1 1.5	3.3 1.8	3.7 1.2									

Crest Stages:			
	Date	1-15-59	2-20-59
	Time	12:30 PM	4:45 PM
	Stage	12.3	17.2

NR— No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 314

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
OLD RIVER AT CLIFTON COURT FERRY

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June
1	4.8 1.9	5.3 1.9	5.0 1.6	5.6 2.1	6.1 2.6	4.7 1.2	5.0 1.8	5.1 1.9	17	4.6 1.4	5.1 1.7	5.6 2.3	6.6 3.2	4.6 1.5	4.4 1.2	4.4 1.5	5.0 1.4
2	5.5 1.9	5.1 1.8	5.2 1.9	5.8 2.0	6.1 2.4	4.7 1.3	5.0 1.7	5.1 1.6	18	4.6 1.2	5.2 1.8	5.5 2.0	6.6 3.1	4.8 1.3	4.5 1.4	4.8 1.5	5.2 1.4
3	5.3 1.9	5.1 1.8	5.3 1.8	5.8 2.0	6.1 2.5	4.9 1.9	4.9 1.8	5.0 1.4	19	4.9 1.3	5.6 2.2	5.7 2.1	6.5 2.9	4.5 1.0	4.4 1.4	4.8 1.5	5.6 1.6
4	5.3 1.8	5.5 2.0	5.5 2.0	6.0 2.0	5.9 2.0	5.1 2.1	4.8 1.6	5.0 1.3	20	5.1 1.8	5.6 2.2	5.9 2.0	6.9 2.9	4.6 1.2	4.5 1.8	5.0 1.5	5.6 1.5
5	5.0 1.7	5.8 2.3	6.1 2.7	6.0 2.2	5.8 2.1	5.0 2.1	4.6 1.3	5.1 1.3	21	5.3 2.0	5.7 2.0	5.9 2.0	7.2 3.4	5.0 1.6	4.8 1.8	5.2 1.4	5.6 1.5
6	5.2 1.8	5.9 2.4	6.7 2.7	6.1 2.2	6.0 2.1	5.1 2.1	4.7 1.5	5.3 1.3	22	5.5 2.1	5.8 2.0	5.8 2.0	6.9 3.7	5.1 1.8	4.9 1.6	5.5 1.5	5.7 1.6
7	5.4 2.1	5.9 2.3	6.4 2.6	6.0 2.4	5.8 2.3	5.1 2.1	4.8 1.3	5.2 1.2	23	5.7 2.1	5.8 2.1	5.8 2.0	6.5 3.4	5.2 1.8	5.0 1.4	5.8 1.6	5.5 1.5
8	5.6 2.2	6.3 2.3	6.6 2.5	5.8 2.4	5.5 2.3	5.2 2.0	5.0 1.5	5.2 1.3	24	5.8 2.1	5.7 1.9	6.2 2.0	6.3 3.1	5.0 2.0	5.5 2.1	5.6 1.6	5.4 1.6
9	6.0 2.3	6.3 2.4	6.7 2.7	5.6 2.4	5.2 2.2	5.2 1.9	5.3 1.5	5.1 1.1	25	5.9 2.1	5.9 1.9	6.3 2.3	6.0 3.0	4.8 1.7	5.5 1.5	5.6 1.6	5.1 1.8
10	6.2 2.6	6.0 2.3	6.4 2.8	5.7 2.3	5.0 2.0	5.1 1.7	5.1 1.3	4.8 1.0	26	6.1 2.1	5.9 2.0	5.7 2.4	6.0 2.9	4.9 1.7	5.5 1.6	5.3 1.5	4.9 1.5
11	6.2 2.4	6.0 2.0	6.3 2.7	5.6 2.6	4.9 2.0	4.9 1.4	5.1 1.3	4.7 1.0	27	6.1 2.2	5.9 2.3	5.4 2.2	6.2 3.0	5.0 1.6	5.2 1.4	4.9 1.2	4.7 1.3
12	6.1 2.2	6.2 2.1	6.1 2.8	5.6 2.6	4.9 1.9	4.9 1.4	5.6 2.2	4.6 1.2	28	5.8 2.2	5.6 2.0	5.2 2.1	6.2 2.8	5.1 1.6	4.9 1.3	4.4 1.0	4.6 1.5
13	6.0 2.0	6.0 2.3	5.6 2.6	5.3 2.4	5.2 2.2	4.9 1.3	5.1 1.3	4.3 1.2	29	5.8 1.9	5.2 1.8	5.1 2.0		5.2 1.5	4.8 1.3	4.3 1.0	4.8 1.7
14	6.4 2.1	5.6 2.2	5.6 2.4	5.4 2.5	4.9 1.8	4.8 1.3	4.6 1.3	4.5 1.2	30	5.6 1.9	4.8 1.6	5.2 2.1		5.2 1.6	4.8 1.7	4.4 1.4	4.9 1.6
15	5.8 2.4	5.1 1.9	5.4 2.3	5.8 2.4	4.7 1.4	4.7 1.2	4.4 1.0	4.6 1.4	31		4.6 1.5	5.3 2.0		5.0 1.2		4.8 1.9	
16	5.2 2.2	5.0 1.8	5.6 2.4	7.2 3.7	4.5 1.2	4.4 1.1	4.2 1.1	4.8 1.6									

Crest Stages:	
Date	
Time	
Stage	

NR — No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 315

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER AT SACRAMENTO WEIR

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	9.1 8.5	9.2 8.7	8.4 8.1	16.3	21.5	11.8 11.4	8.8 8.0	NR NR	17	9.0 8.7	8.4 8.1	18.8	17.8	12.2 12.1	NR NR	NR NR	NR NR
2	8.9 8.5	9.0 8.7	8.5 8.1	16.4	19.7	12.0 11.7	8.7 8.1	NR NR	18	8.8 8.5	8.3 8.1	17.1	23.9	12.1 12.0	NR NR	NR NR	NR NR
3	8.9 8.5	9.0 8.7	8.4 8.0	16.1	18.2	11.9 11.7	8.9 8.1	NR NR	19	8.7 8.4	8.5 8.1	15.6	26.1	11.8 11.7	NR NR	NR NR	NR NR
4	8.8 8.5	9.2 8.8	8.6 8.0	14.9	17.1	11.9 11.6	8.9 8.2	NR NR	20	8.8 8.5	8.5 8.1	14.6	26.6	11.7 11.5	NR NR	NR NR	NR NR
5	8.6 8.3	9.3 8.9	10.2 9.2	13.7	16.4	11.8 11.5	8.7 8.1	NR NR	21	9.0 8.6	8.5 8.2	13.9	26.3	11.6 11.4	NR NR	NR NR	NR NR
6	8.5 8.2	9.4 8.9	10.1 8.8	12.7	15.6	11.8 11.5	8.6 7.9	NR NR	22	9.2 8.7	8.5 8.1	13.3	25.9	11.7 11.3	NR NR	NR NR	NR NR
7	8.6 8.2	9.4 8.9	10.3	12.3 11.9	15.1	11.6 11.2	8.6 7.9	NR NR	23	9.3 8.8	8.7 8.1	12.7	25.5	11.8 11.3	NR NR	NR NR	NR NR
8	8.7 8.3	9.4 8.8	12.4 11.4	11.8 11.5	14.6	11.4 10.9	8.8 8.0	NR NR	24	9.3 8.8	9.0 8.4	12.7 12.3	25.2	11.9 11.6	NR NR	NR NR	NR NR
9	9.2 8.4	9.6 9.0	12.5 11.9	11.7 11.3	14.3 14.1	11.0 10.2	8.9 7.9	NR NR	25	9.4 8.8	9.1 8.5	12.8 12.2	24.7	12.1 11.8	8.3 7.0	NR NR	NR NR
10	9.2 8.6	9.5 9.0	14.3	11.7 11.2	14.1 13.8	10.2 9.1	8.6 7.8	NR NR	26	9.5 8.9	9.2 8.4	12.9	24.2	12.0 11.4	8.4 7.3	NR NR	NR NR
11	9.3 8.5	9.5 8.9	17.1	12.3	13.8 13.5	9.4 8.6	8.8 7.9	NR NR	27	9.5 8.9	9.3 8.6	13.8	23.7	11.8 11.4	8.6 7.7	NR NR	NR NR
12	9.4 8.7	9.5 8.9	17.7	13.8	13.6 13.3	9.3 8.7	9.0 8.1	NR NR	28	9.3 8.8	9.3 8.7	14.2	22.9	11.8 11.3	9.2 8.6	NR NR	NR NR
13	9.5 8.8	9.3 8.8	18.9	13.4	13.5 13.1	9.1 8.7	8.7 7.8	NR NR	29	9.3 8.8	9.1 8.8	14.2		11.6 11.2	9.0 8.3	NR NR	NR NR
14	9.5 8.8	9.3 8.6	20.8	12.4	13.2 12.8	8.9E 8.3	NR NR	NR NR	30	9.2 8.8	9.1 8.6	15.2		11.6 11.2	8.9 8.2	NR NR	NR NR
15	9.5 8.8	8.8 8.4	21.2	11.9	12.8 12.5	NR NR	NR NR	NR NR	31		8.6 8.2	16.0		11.5 11.0		NR NR	
16	9.3 8.7	8.5 8.2	20.3	12.8	12.5 12.1	NR NR	NR NR	NR NR									

Crest Stages					
	Date	1-15-59	2- 2-59	2-12-59	2-20-59
	Time	4:30 AM	3:30 PM	12:30 PM	5:30 PM
	Stage	21.4	16.6	13.9	26.7

NR — No Record

NOTE: Single daily values indicate daily mean stage only

TABLE 316

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
OLD RIVER AT MANSION HOUSE

In feet

Date	1958 Nov	1958 Dec	1959 Jan	1959 Feb	1959 Mar	1959 Apr	1959 May	1959 June	Date	1958 Nov	1958 Dec.	1959 Jan	1959 Feb	1959 Mar	1959 Apr	1959 May	1959 June
1	3.5 0.0	3.2 -0.2	3.0 -0.4	3.6 0.1	4.0 0.5	2.8 -0.7	3.2 0.0	3.4 0.1	17	2.6 -0.6	3.0 -0.3	3.5 0.4	4.5 1.2	2.7 -0.4	2.6 -0.6	2.6 -0.3	3.3 -0.4
2	3.4 -0.1	3.0 -0.3	3.2 -0.1	3.8 0.0	4.0 0.4	2.9 -0.5	3.2 -0.1	3.3 -0.2	18	2.5 -0.8	3.2 -0.1	3.4 0.1	4.5 1.1	2.8 -0.6	2.7 -0.4	3.0 -0.3	3.5 -0.4
3	3.2 -0.1	3.0 -0.2	3.3 -0.2	3.9 0.1	4.0 0.5	3.1 0.0	3.1 0.0	3.2 -0.4	19	2.8 -0.6	3.5 0.3	3.6 0.1	4.4 0.9	2.6 -0.8	2.7 -0.3	3.0 -0.3	3.9 -0.2
4	2.9 -0.1	3.4 0.0	3.5 0.1	4.0 0.2	3.8 0.1	3.3 0.3	3.0 -0.2	3.3 -0.5	20	3.1 -0.2	3.6 0.2	3.8 0.1	4.8 0.9	2.7 -0.6	2.8 0.0	3.3 -0.3	3.9 -0.3
5	2.9 -0.2	3.7 0.3	4.1 0.8	4.0 0.2	3.8 0.2	3.2 0.3	2.8 -0.5	3.3 -0.4	21	3.2 0.1	3.7 0.1	3.8 0.0	5.1 1.4	3.2 -0.2	3.2 0.0	3.4 -0.5	3.9 -0.3
6	3.1 -0.2	3.8 0.4	4.7 0.6	4.1 0.2	3.8 0.4	3.3 0.3	2.9 -0.4	3.5 -0.4	22	3.4 0.1	3.8 0.1	3.8 0.0	4.8 1.7	3.3 0.0	3.2 -0.2	3.7 -0.3	4.0 -0.2
7	3.3 0.1	3.9 0.3	4.4 0.6	4.0 0.5	3.7 0.4	3.3 0.3	3.0 -0.5	3.5 -0.6	23	3.6 0.1	3.8 0.1	3.7 0.0	4.4 1.4	3.3 0.2	3.3 -0.4	4.0 -0.3	3.8 -0.3
8	3.5 0.3	4.2 0.4	4.6 0.5	3.8 0.4	3.4 0.3	3.4 0.2	3.2 -0.3	3.4 -0.5	24	3.7 0.1	3.7 -0.1	4.1 0.0	4.1 1.1	3.1 0.1	3.8 0.3	3.8 -0.2	3.7 -0.1
9	4.0 0.6	4.2 0.4	4.7 0.7	3.6 0.4	3.2 0.2	3.4 0.1	3.5 -0.3	3.4 -0.7	25	3.8 0.1	3.9 -0.1	4.2 0.3	3.8 1.0	2.9 -0.2	3.8 -0.3	3.9 -0.2	3.4 0.0
10	4.1 0.6	4.0 0.2	4.4 0.8	3.7 0.4	3.0 0.2	3.3 -0.2	3.2 -0.5	3.1 -0.8	26	4.0 0.1	3.9 0.0	3.7 0.4	3.8 0.9	3.2 -0.1	3.8 -0.2	3.6 -0.3	3.1 -0.2
11	4.1 0.3	4.0 -0.1	4.2 0.6	3.6 0.7	2.9 0.1	3.1 -0.4	3.3 -0.5	2.9 -0.8	27	4.0 0.2	3.9 0.3	3.4 0.2	4.0 1.0	3.2 -0.4	3.4 -0.5	3.2 -0.6	3.1 -0.4
12	4.0 0.2	4.2 0.0	4.0 0.8	3.6 0.7	2.9 0.0	3.1 -0.4	3.8 0.4	2.8 -0.6	28	3.8 0.1	3.6 0.0	3.2 0.2	4.1 0.7	3.2 -0.3	3.0 -0.6	2.6 -0.8	3.0 -0.2
13	4.0 0.0	3.9 0.2	3.5 0.5	3.3 0.5	3.3 0.3	3.1 -0.5	3.2 -0.6	2.6 -0.6	29	3.7 -0.1	3.1 -0.2	3.1 0.0		3.3 -0.4	2.9 -0.5	2.5 -0.8	3.1 -0.1
14	4.3 0.1	3.5 0.1	3.5 0.4	3.4 0.6	2.9 -0.2	3.0 -0.5	2.8 -0.5	2.8 -0.5	30	3.5 -0.1	2.8 -0.4	3.2 0.1		3.3 -0.3	3.0 -0.2	2.7 -0.3	3.2 -0.2
15	3.7 0.4	3.0 -0.1	3.4 0.3	3.8 0.5	2.7 -0.4	2.9 -0.6	2.6 -0.8	2.9 -0.4	31		2.6 -0.5	3.3 0.1		3.1 -0.7		3.0 0.1	
16	3.0 0.1	3.0 -0.3	3.5 0.4	5.2 1.8	2.5 -0.7	2.6 -0.7	2.4 -0.7	3.1 -0.2									

Crest Stages: Date / Time / Stage

NR – No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 317

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
GEORGIANA SLOUGH AT MOKELUMNE RIVER

In feet

Date	1958 Nov	1958 Dec	1959 Jan	1959 Feb	1959 Mar	1959 Apr	1959 May	1959 June	Date	1958 Nov.	1958 Dec	1959 Jan	1959 Feb.	1959 Mar.	1959 Apr.	1959 May	1959 June
1	3.4 0.0	3.2 -0.1	3.0 -0.3	3.4 0.1	4.1 0.7	3.0 -0.4	3.4 0.2	3.6 0.4	17	2.6 -0.5	3.1 -0.2	3.5 0.5	4.6 1.4	2.9 -0.1	2.7 -0.3	2.9 0.0	3.5 -0.1
2	3.4 0.0	3.0 -0.2	3.2 0.0	3.8 0.1	4.1 0.6	3.0 -0.2	3.4 0.2	3.5 0.1	18	2.5 -0.7	3.2 0.0	3.4 0.2	4.6 1.4	3.0 -0.2	2.8 -0.2	3.2 -0.1	3.8 -0.1
3	3.2 0.0	3.0 -0.1	3.2 -0.1	3.9 0.2	3.8 0.4	3.3 0.3	3.3 0.2	3.4 -0.1	19	2.8 -0.5	3.6 0.4	3.6 0.1	4.5 1.2	2.7 -0.5	2.9 -0.1	3.2 -0.2	4.2 0.0
4	2.8 0.0	3.5 0.1	3.6 0.1	4.1 0.3	3.7 0.3	3.5 0.5	3.2 0.0	3.5 -0.2	20	3.1 -0.1	3.6 0.3	3.8 0.2	4.8 1.6	2.9 -0.3	3.0 0.2	3.5 -0.2	4.2 0.0
5	2.8 -0.1	3.8 0.4	4.6 0.1	4.1 0.3	3.9 0.3	3.4 0.5	3.0 -0.2	3.5 -0.2	21	3.2 0.2	3.7 0.2	3.9 0.1	5.1 1.9	3.4 0.1	3.4 0.2	3.6 -0.2	4.2 0.0
6	3.1 -0.1	3.9 0.5	4.8 0.7	4.2 0.7	4.0 0.6	3.5 0.6	3.1 -0.3	3.7 -0.1	22	3.5 0.2	3.8 0.2	3.8 0.1	4 9 1.6	3.6 0.3	3.5 0.0	4.0 -0.1	4.3 0.1
7	3.3 0.2	4.0 0.4	4.6 0.6	4.1 0.5	3.8 0.5	3.5 0.4	3.2 -0.3	3.7 -0.3	23	3.6 0.2	3.9 0.0	3.8 0.1	4.5 1.6	3.6 0.5	3.6 -0.1	4.3 0.0	4.0 0.0
8	3.5 0.4	4.3 0.5	4.8 0.9	3.9 0.5	3.6 0.4	3.6 0.4	3.4 -0.1	3.7 -0.2	24	3.8 0.2	3.7 0.0	4.2 0.1	4.3 1.3	3.4 0.2	4.2 0.5	4.1 0.0	3.9 0.2
9	4.1 0.6	4.4 0.3	4.8 0.9	3.8 0.6	3.3 0.4	3.6 0.3	3.7 -0.2	3.6 -0.4	25	3.9 0.2	3.9 0.0	4.3 0.4	4.0 1.2	3.2 0.1	4.0 0.1	4.1 0.0	3.6 0.3
10	4.1 0.4	4.1 0.3	4.4 0.9	3.8 0.6	3.1 0.4	3.5 0.1	3.4 -0.3	3.3 -0.5	26	4.1 0.2	4.0 0.0	3.7 0.5	4.1 1.1	3.4 0.2	4.0 0.0	3.8 0.0	3.4 0.1
11	4.2 0.4	4.1 0.0	4.3 0.7	3.7 0.9	3.1 0.3	3.3 -0.1	3.5 -0.3	3.1 -0.5	27	4.1 0.3	3.9 0.4	3.5 0.3	4.2 1.1	3.4 0.0	3.6 -0.3	3.3 -0.3	3.2 -0.1
12	4.1 0.3	4.3 0.1	4.0 0.9	3.7 0.8	3.1 0.3	3.3 -0.2	3.9 0.5	3.0 -0.3	28	3.8 0.2	3.6 0.1	3.2 0.3	4.2 0.9	3.5 0.0	3.2 -0.4	2.8 -0.5	3.2 0.0
13	4.1 0.0	4.0 0.3	3.5 0.6	3.4 0.7	3.4 0.5	3.2 -0.3	3.4 -0.3	3.0 -0.3	29	3.7 0.0	3.2 -0.2	3.2 0.1		3.6 -0.1	3.0 -0.4	2.8 -0.6	3.3 0.0
4	4.3 0.2	3.6 0.1	3.5 0.5	3.5 0.8	3.0 0.0	3.1 -0.2	2.9 -0.2	3.0 -0.3	30	3.6 0.0	2.8 -0.4	3.3 0.3		3.6 0.0	3.2 0.1	2.9 -0.1	3.5 0.1
15	3.7 0.4	3.1 0.0	3.4 0.4	3.8 1.0	2.7 -0.3	2.9 -0.4	2.6 -0.6	3.1 0.0	31		2.6 -0.4	3.3 0.2		3.2 -0.4		3.3 0.4	
16	2.9 -0.1	3.0 -0.2	3.5 0.5	5.3 1.9	2.6 -0.4	2.6 -0.4	2.6 -0.5	3.3 0.1									

Crest Stages: Date / Time / Stage

NR – No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 318

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
OLD RIVER AT HOLLAND TRACT

In feet

Date	1958 Nov	1958 Dec	1959 Jan	1959 Feb	1959 Mar.	1959 Apr	1959 May	1959 June	Date	1958 Nov.	1958 Dec.	1959 Jan.	1959 Feb.	1959 Mar.	1959 Apr.	1959 May	1959 June
1	6.7 3.2	6.4 3.1	6.2 2.9	6.8 3.3	7.2 3.8	6.2 2.7	6.6 3.4	6.7 3.6	17	5.8 2.6	6.3 3.0	6.7 3.7	7.7 4.5	6.1 3.1	6.0 2.9	6.1 3.2	6.8 3.1
2	6.6 3.2	6.3 3.0	6.4 3.2	7.0 3.3	7.3 3.7	6.2 2.9	6.6 3.4	6.7 3.3	18	5.7 2.5	6.4 3.2	6.7 3.4	7.7 4.4	6.2 2.9	6.0 3.0	6.4 3.2	7.0 3.1
3	6.5 3.2	6.2 3.1	6.5 3.2	7.2 3.3	7.2 3.7	6.4 3.4	6.5 3.4	6.7 3.1	19	6.0 2.7	6.8 3.6	6.8 3.4	7.6 4.2	6.0 2.6	6.1 3.1	6.4 3.0	7.4 3.3
4	6.1 3.2	6.7 3.3	6.8 3.3	7.3 3.5	7.0 3.4	6.6 3.7	6.4 3.2	6.7 3.0	20	6.2 3.1	6.8 3.5	7.0 3.4	8.0 4.6	6.2 2.9	6.2 3.4	6.7 3.1	7.4 3.2
5	6.1 3.1	6.9 3.6	7.5 4.1	7.3 3.5	7.0 3.5	6.6 3.7	6.2 3.0	6.8 3.0	21	6.4 3.3	6.9 3.4	7.1 3.3	8.3 4.9	6.6 3.3	6.6 3.4	6.8 3.0	7.4 3.2
6	6.3 3.1	7.0 3.7	8.0 3.9	7.4 3.8	7.2 3.7	6.7 3.8	6.3 2.9	7.0 3.1	22	6.6 3.4	7.0 3.4	7.1 3.3	8.0 4.9	6.7 3.4	6.6 3.2	7.2 3.1	7.5 3.3
7	6.5 3.4	7.1 3.6	7.7 3.8	7.3 3.8	7.0 3.7	6.7 3.7	6.4 2.9	6.9 2.9	23	6.8 3.4	7.0 3.2	7.0 3.3	7.6 4.6	6.8 3.7	6.7 3.1	7.4 3.2	7.3 3.2
8	6.7 3.5	7.4 3.6	7.9 3.8	7.1 3.7	6.8 3.7	6.8 3.6	6.6 3.2	6.9 3.0	24	6.9 3.4	6.9 3.2	7.3 3.3	7.4 4.3	6.6 3.4	7.3 3.7	7.3 3.2	7.2 3.4
9	7.2 3.8	7.5 3.5	8.0 4.0	7.0 3.7	6.5 3.6	6.8 3.5	6.9 3.0	6.8 2.8	25	7.0 3.4	7.1 3.2	7.5 3.6	7.1 4.3	6.4 3.2	7.2 3.2	7.3 3.2	6.9 3.5
10	7.3 3.6	7.2 3.5	7.6 4.0	7.0 3.7	6.3 3.6	6.7 3.3	6.6 2.9	6.5 2.7	26	7.2 3.4	7.2 3.2	6.9 3.7	7.2 4.2	6.6 3.3	7.2 3.2	7.0 3.2	6.7 3.4
11	7.3 3.6	7.2 3.2	7.5 3.8	6.8 4.0	6.3 3.5	6.5 3.1	6.7 2.9	6.4 2.7	27	7.2 3.5	7.1 3.6	6.7 3.5	7.3 4.2	6.6 3.1	6.8 2.9	6.6 2.9	6.5 3.1
12	7.2 3.4	7.4 3.3	7.2 4.0	6.8 4.0	6.3 3.4	6.5 3.0	7.1 3.7	6.2 2.9	28	7.0 3.4	6.8 3.3	6.4 3.4	7.3 4.0	6.6 3.1	6.4 2.8	6.0 2.7	6.5 3.3
13	7.2 3.2	7.1 3.5	6.7 3.8	6.6 3.8	6.6 3.7	6.4 2.9	6.6 2.9	6.2 3.0	29	6.9 3.2	6.4 3.0	6.3 3.3		6.8 3.0	6.3 2.8	6.0 2.7	6.6 3.4
14	7.5 3.3	6.7 3.4	6.7 3.6	6.7 3.9	6.2 3.2	6.4 3.0	6.1 3.0	6.3 3.0	30	6.8 3.2	6.0 2.8	6.5 3.4		6.7 3.1	6.4 3.3	6.1 3.1	6.7 3.4
15	6.9 3.6	6.3 3.2	6.6 3.6	7.0 3.8	6.0 2.9	6.2 2.8	6.0 2.6	6.3 3.2	31		5.9 2.8	6.6 3.4		6.4 2.7		6.4 3.6	
16	6.1 3.2	6.2 3.0	6.7 3.7	8.4 5.0	5.8 2.8	5.9 2.8	5.8 2.7	6.6 3.3									

Crest Stages.	Date	Time	Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 319

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
OLD RIVER NEAR ROCK SLOUGH

In feet

Date	1958 Nov	1958 Dec	1959 Jan	1959 Feb	1959 Mar.	1959 Apr	1959 May	1959 June	Date	1958 Nov.	1958 Dec	1959 Jan	1959 Feb	1959 Mar.	1959 Apr.	1959 May	1959 June
1	6.4 2.9	6.1 2.8	5.9 2.6	6.5 3.0	6.9 3.4	5.8 2.3	6.2 3.0	6.4 3.2	17	5.4 2.3	6.0 2.7	6.3 3.3	7.4 4.1	5.7 2.7	5.6 2.5	5.7 2.8	6.4 2.7
2	6.3 2.8	5.9 2.6	6.1 2.8	6.7 2.9	6.9 3.3	5.9 2.6	6.2 3.0	6.4 2.9	18	5.4 2.1	6.1 2.8	6.3 3.0	7.4 4.0	5.8 2.5	5.7 2.6	6.1 2.8	6.6 2.7
3	6.2 2.8	5.9 2.7	6.2 2.8	6.8 3.0	6.8 3.3	6.1 3.1	6.1 3.0	6.3 2.7	19	5.7 2.3	6.4 3.3	6.5 3.0	7.3 3.8	5.6 2.2	5.7 2.7	6.0 2.7	7.0 2.8
4	5.8 2.8	6.3 2.9	6.4 2.9	6.9 3.1	6.7 3.0	6.3 3.3	6.0 2.8	6.3 2.6	20	5.9 2.8	6.5 3.1	6.7 3.0	7.7 4.3	5.8 2.5	5.8 3.0	6.3 2.7	7.0 2.8
5	5.8 2.7	6.6 3.2	7.1 3.8	6.9 3.1	6.7 3.1	6.2 3.3	5.8 2.6	6.4 2.6	21	6.1 3.0	6.5 3.0	6.8 2.9	7.9 4.6	6.2 2.8	6.2 3.0	6.4 2.6	7.0 2.7
6	6.0 2.8	6.7 3.3	7.6 3.5	7.0 3.4	6.8 3.3	6.3 3.4	5.9 2.6	6.6 2.7	22	6.3 3.0	6.7 3.0	6.7 2.9	7.7 4.6	6.3 3.0	6.3 2.8	6.8 2.7	7.1 2.9
7	6.2 3.0	6.8 3.2	7.3 3.4	7.0 3.4	6.7 3.3	6.3 3.3	6.1 2.5	6.5 2.5	23	6.5 3.0	6.7 2.8	6.7 2.9	7.3 4.3	6.4 3.2	6.4 2.7	7.1 2.8	6.8 2.7
8	6.4 3.2	7.1 3.3	7.5 3.4	6.8 3.3	6.4 3.3	6.4 3.2	6.2 2.8	6.5 2.6	24	6.4 3.0	6.6 2.8	7.0 2.9	7.0 4.0	6.2 3.2	7.0 3.3	6.9 2.8	6.7 3.0
9	6.9 3.5	7.2 3.1	7.6 3.6	6.6 3.4	6.2 3.2	6.4 3.1	6.5 2.7	6.4 2.4	25	6.7 3.0	6.8 2.8	7.1 3.2	6.8 3.9	6.0 2.8	6.8 2.8	7.0 2.9	6.5 3.1
10	7.0 3.2	6.9 3.1	7.3 3.7	6.7 3.3	6.0 3.2	6.3 2.9	6.3 2.5	6.1 2.3	26	6.9 3.0	6.8 2.9	6.6 3.4	6.8 3.8	6.2 2.9	6.8 2.8	6.6 2.8	6.0 2.9
11	7.0 3.2	6.9 2.8	7.1 3.5	6.5 3.6	5.9 3.1	6.1 2.7	6.3 2.5	6.0 2.3	27	6.9 3.1	6.8 3.2	6.3 3.1	7.0 3.9	6.2 2.7	6.4 2.5	6.2 2.5	6.1 2.7
12	6.9 3.1	7.1 2.9	6.9 3.6	6.5 3.6	5.9 3.0	6.2 2.6	6.8 3.4	5.8 2.5	28	6.7 3.0	6.5 2.9	6.1 3.1	7.0 3.6	6.3 2.7	6.0 2.4	5.6 2.3	6.1 2.8
13	6.9 2.9	6.8 3.1	6.4 3.4	6.2 3.4	6.3 3.3	6.1 2.6	6.2 2.5	5.9 2.6	29	6.6 2.8	6.0 2.7	6.0 2.9		6.4 2.7	5.9 2.5	5.6 2.3	6.2 3.0
14	7.2 3.0	6.4 3.0	6.4 3.3	6.3 3.5	5.9 2.9	6.0 2.6	5.8 2.6	5.9 2.6	30	6.4 2.8	5.7 2.5	6.2 3.1		6.3 2.7	6.0 2.9	5.8 2.7	6.3 2.9
15	6.6 3.3	5.9 2.8	6.3 3.2	6.7 3.4	5.7 2.6	5.8 2.4	5.7 2.2	6.0 2.8	31		5.5 2.4	6.2 3.0		6.1 2.4		6.1 3.2	
16	5.8 2.9	5.9 2.6	6.4 3.4	8.1 4.7	5.5 2.3	5.6 2.4	5.4 2.3	6.2 2.9									

Crest Stages	Date	Time	Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 320

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
YOLO BYPASS AT LISBON (NEW STATION)

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb.	Mar	Apr.	May	June		Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June
1					12.6	6.6 2.6	7.0 3.0	7.2 3.5	17					6.6 3.9	6.2 2.3	6.6 3.0	6.9 2.2
2					12.0	6.6 2.6	6.8 2.9	7.2 3.2	18					6.8 4.2	6.3 2.5	6.8 2.6	7.2 2.3
3					11.3	6.8 3.6	6.7 2.9	7.1 2.7	19				14.2	6.6 3.9	6.5 2.6	6.7 2.2	7.6 2.4
4					9.6	7.2 3.7	6.7 2.6	7.0 2.4	20				16.7	6.9 4.2	6.6 2.9	7.0 2.1	7.6 2.3
5					8.4 6.8	7.0 3.7	6.6 2.3	7.1 2.6	21				16.8	7.3 4.2	7.1 3.0	7.1 2.3	7.6 2.2
6					8.3 6.3	7.2 3.1	6.5 1.9	7.3 2.9	22				16.1	7.5 4.3	7.1 2.6	7.6 2.6	7.6 2.3
7					7.8 6.2	6.7 3.1	6.6 2.0	7.2 2.2	23				15.4	7.6 4.3	7.1 2.3	7.8 2.6	7.3 2.3
8					7.8 5.7	7.1 3.1	6.8 3.1	7.1 2.5	24				15.0	7.2 4.2	7.8 3.3	7.6 2.9	7.2 2.9
9					7.6 5.3	7.2 3.0	7.1 2.3	7.1 1.9	25				14.6	7.2 3.9	7.5 2.9	7.8 3.1	7.1 3.0
10					7.3 4.6	7.1 2.8	6.7 2.0	6.7 1.8	26				14.1	7.4 3.8	7.5 2.7	7.4 3.1	6.9 3.0
11					7.3 4.3	6.9 2.6	6.9 2.2	6.5 1.9	27				13.7	7.2 3.3	7.0 2.2	6.8 2.4	6.6 2.5
12					7.2 4.1	6.8 2.5	7.4 3.8	6.5 2.2	28				13.2	7.2 3.5	6.5 1.9	6.4 2.2	6.6 2.6
13					7.6 4.4	6.6 2.4	6.8 2.4	6.5 2.6	29					7.2 3.5	6.5 2.2	6.4 2.0	6.7 2.3
14					6.8 3.5	6.5 2.5	6.4 2.7	6.5 2.3	30					7.2 3.6	6.8 3.1	6.4 2.6	6.8 2.7
15					6.3 2.5	6.2 2.1	6.3 2.0	6.6 2.8	31					6.6 2.6		6.8 3.3	
16					6.3 2.4	6.0 2.3	6.2 2.4	6.9 2.9									

Crest Stages.		
	Date	2-20-59
	Time	11:50 PM
	Stage	17.1

NR — No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 321

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
YOLO BYPASS AT LISBON (OLD STATION)

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec	Jan	Feb	Mar	Apr.	May	June
1	6.8 2.8	6.4 2.9	6.2 2.7	6.6 3.5	8.1 6.7	5.7 3.5	5.9 4.0	6.1 4.2	17	5.8 2.4	6.2 2.8	6.9 4.1	7.9 5.2	5.8 3.7	5.3 3.5	5.2 3.9	5.5 3.9
2	6.8 2.8	6.2 2.7	6.4 3.0	6.9 3.7	7.8 5.7	5.7 3.6	5.8 3.8	6.1 4.2	18	5.7 2.4	6.3 2.9	6.8 3.8	8.0 5.5	5.9 3.5	5.3 3.6	5.5 3.6	6.1 4.0
3	6.6 2.9	6.2 2.7	6.3 2.8	7.3 3.8	7.3 4.8	6.0 4.1	5.5 4.0	5.8 3.9	19	6.0 2.4	6.7 3.3	6.9 3.6	8.0 5.7	5.6 3.2	5.3 3.7	5.3 3.7	6.6 4.4
4	6.2 2.8	6.7 2.9	6.8 3.2	7.3 3.9	6.8 4.2	6.3 4.4	5.6 3.8	5.6 3.8	20	6.3 2.7	6.8 3.3	7.0 3.6	9.0 5.7	5.7 3.6	5.4 4.0	5.6 3.8	6.6 4.1
5	6.2 2.8	6.9 3.3	8.2 4.6	7.3 3.9	7.0 4.3	6.2 4.4	5.4 3.7	5.7 3.8	21	6.4 2.9	6.8 3.2	7.2 3.6	10.9 9.2	6.3 3.6	5.8 4.0	5.7 3.8	6.6 4.2
6	6.4 2.8	7.0 3.4	8.0 3.9	7.5 3.9	7.1 4.3	6.3 4.4	5.4 3.5	6.2 4.0	22	6.7 3.0	6.9 3.2	7.1 3.6	10.4 9.8	6.5 4.0	5.8 4.0	6.4 4.2	6.7 4.2
7	6.6 2.9	7.1 3.3	7.9 3.9	7.3 4.1	6.8 4.4	5.9 4.1	5.5 3.5	6.2 3.8	23	6.9 3.1	7.0 3.2	7.1 3.5	9.7 9.2	6.4 4.2	5.7 3.8	6.7 4.2	6.5 4.2
8	6.8 3.1	7.4 3.3	8.1 4.0	7.1 4.0	6.7 4.3	6.3 4.3	5.7 3.9	6.2 3.9	24	7.0 3.1	7.0 3.1	7.5 3.6	9.3 8.7	6.2 4.2	6.6 4.1	6.5 4.3	6.4 4.4
9	7.5 3.5	7.5 3.3	8.2 4.4	7.1 4.0	6.4 4.3	6.4 4.2	6.3 3.9	6.1 3.7	25	7.1 3.0	7.1 3.2	7.6 3.8	9.1 8.6	5.9 4.0	6.6 4.2	6.8 4.3	6.3 4.4
10	7.2 3.5	7.2 3.2	7.9 4.3	7.1 4.0	6.2 4.0	6.3 4.0	5.8 3.7	5.5 3.5	26	7.3 3.1	7.3 3.2	7.0 4.0	9.2 8.8	6.2 4.0	6.6 4.2	6.5 4.3	5.8 4.2
11	7.4 3.0	7.2 3.0	7.8 4.2	6.9 4.2	6.1 3.9	5.8 3.8	6.0 3.6	5.4 3.6	27	7.3 3.2	7.2 3.5	6.9 3.7	9.0 8.5	6.2 3.9	6.1 3.7	5.8 3.8	5.8 3.9
12	7.3 3.0	7.4 3.1	7.5 4.4	6.8 4.1	6.1 3.9	5.9 3.7	6.6 4.4	5.5 3.8	28	7.1 3.1	6.8 3.2	6.6 3.8	8.6 7.7	6.3 4.0	5.6 3.5	5.3 3.5	5.2 4.2
13	7.4 2.9	7.1 3.3	6.9 4.2	6.5 3.9	6.6 4.2	5.8 3.5	6.1 3.7	5.2 3.8	29	7.0 2.9	6.4 3.0	6.5 3.6		6.3 3.9	5.6 3.6	5.0 3.3	5.0 3.8
14	7.6 3.2	6.7 3.2	7.0 4.2	6.7 4.0	6.0 3.6	6.0 3.6	5.5 3.7	5.2 3.7	30	6.8 2.9	6.0 2.8	6.6 3.7		6.3 3.9	5.8 4.0	5.0 3.6	5.0 4.3
15	6.9 3.3	6.2 3.0	7.0 4.2	7.0 4.4	5.6 3.2	5.6 3.2	5.0 3.3	5.3 3.8	31		5.8 2.6	6.6 3.7		5.8 3.5		5.4 4.1	
16	6.1 2.6	6.1 2.8	7.0 4.3	8.5 5.4	5.5 3.2	5.3 3.3	4.8 3.3	5.5 3.8									

Crest Stages:		
	Date	
	Time	
	Stage	

NR — No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 322

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SAN JOAQUIN RIVER AT SAN ANDREAS LANDING

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	6.2 2.8	6.0 2.7	5.7 2.5	6.2 2.8	6.8 3.4	5.8 2.4	6.1 3.0	6.2 3.2	17	5.3 2.4	5.6 2.6	6.2 3.2	7.3 4.0	5.6 2.7	5.5 2.5	5.6 2.8	6.3 2.7
2	NR NR	5.7 2.6	5.9 2.8	6.5 2.8	6.8 3.3	5.8 2.6	6.1 3.0	6.2 2.9	18	5.2 2.3	5.9 2.8	6.2 3.0	7.2 4.0	5.7 2.6	5.5 2.6	6.0 2.7	6.5 2.7
3	NR NR	5.7 2.7	6.0 2.7	6.7 2.9	6.6 3.1	6.0 3.0	6.0 3.0	6.2 2.7	19	5.5 2.4	6.3 3.2	6.3 2.9	7.1 3.7	5.5 2.5	5.5 2.7	5.9 2.6	6.9 2.8
4	NR NR	6.2 2.9	6.3 2.9	6.8 3.0	6.5 3.0	6.2 3.2	5.9 2.8	6.2 2.6	20	5.8 2.7	6.4 3.1	6.6 2.9	7.5 4.1	5.7 2.5	5.8 3.0	6.2 2.6	7.0 2.8
5	5.6 2.8	6.5 3.2	7.3 3.8	6.8 3.0	6.6 3.1	6.1 3.3	5.7 2.6	6.3 2.6	21	5.9 2.9	6.4 2.9	6.6 2.8	7.8 4.4	6.2 2.8	6.1 3.0	6.3 2.6	6.9 2.8
6	5.8 2.8	6.6 3.3	7.6 3.4	6.9 3.3	6.7 3.3	6.3 3.3	5.8 2.6	6.5 2.7	22	6.2 3.0	6.6 2.9	6.6 2.8	7.5 4.1	6.3 3.1	6.2 2.8	6.7 2.7	7.1 2.9
7	6.0 2.9	6.7 3.1	7.3 3.3	6.8 3.2	6.5 3.2	6.2 3.2	5.9 2.6	6.4 2.6	23	6.3 3.0	6.5 2.8	6.5 2.8	7.2 4.1	6.3 3.2	6.3 2.7	7.0 2.7	6.8 2.8
8	6.2 3.1	7.0 3.2	7.5 3.5	6.7 3.2	6.3 3.2	6.3 3.2	6.1 2.7	6.4 2.6	24	6.5 3.0	6.5 2.8	6.9 3.1	6.9 3.9	6.1 3.0	6.9 3.2	6.8 2.8	6.6 3.0
9	6.8 3.4	7.1 3.0	7.6 3.5	6.5 3.3	6.1 3.1	6.3 3.1	6.4 2.6	6.3 2.5	25	6.6 3.0	6.6 2.8	7.0 3.1	6.7 3.8	5.9 2.8	6.8 2.8	6.8 2.8	6.3 3.1
10	6.8 3.1	6.8 2.8	7.2 3.5	6.6 3.2	5.8 3.1	6.2 2.9	6.1 2.6	6.0 2.5	26	6.8 3.0	6.8 2.8	6.5 3.3	6.7 3.7	6.1 2.9	6.7 2.7	6.5 2.8	6.1 3.0
11	6.9 3.0	6.8 2.8	7.0 3.4	6.4 3.6	5.8 3.1	6.0 2.7	6.2 2.6	5.9 2.4	27	6.8 3.1	6.7 3.1	6.2 3.0	6.9 3.8	6.2 2.7	6.3 2.5	6.1 2.6	6.0 2.7
12	6.8 2.8	7.0 2.8	6.7 3.5	6.4 3.6	5.8 3.0	6.0 2.6	6.7 3.3	5.7 2.6	28	6.5 3.0	6.3 2.8	6.0 3.0	6.9 3.6	6.2 2.7	5.9 2.5	5.5 2.6	6.0 2.9
13	6.8 2.8	6.7 3.0	6.2 3.3	6.1 3.4	6.2 3.3	6.0 2.5	6.1 2.6	5.8 2.6	29	6.4 2.8	5.9 2.6	5.9 2.8		6.3 2.6	5.8 2.5	5.6 2.6	6.2 2.9
14	7.1 2.9	6.3 2.9	6.2 3.2	6.2 3.5	5.7 2.8	5.9 2.6	5.7 2.6	5.8 2.6	30	6.3 2.7	5.5 2.5	6.0 3.0		6.3 2.7	5.8 2.9	5.6 2.7	6.2 3.0
15	6.4 3.2	5.8 2.7	6.1 3.2	6.5 3.7	5.5 2.5	5.7 2.5	5.3 2.6	6.1 2.8	31		5.4 2.5	6.1 3.0		5.9 2.4		6.0 3.2	
16	5.6 2.6	5.8 2.6	6.2 3.3	8.0 4.6	5.4 2.5	5.4 2.5	5.3 2.6	6.1 3.0									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 323

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER AT ISLETON

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June
1	6.2 2.3	5.9 2.1	6.0 2.0	6.6 2.8	7.5 4.0	5.8 1.9	6.2 2.5	6.4 2.8	17	5.3 1.7	5.9 2.1	6.6 3.5	7.5 4.2	5.7 2.6	5.5 2.0	5.8 2.3	6.4 2.1
2	6.1 2.2	5.7 2.0	6.2 2.3	6.9 2.9	7.3 3.7	5.9 2.1	6.2 2.5	6.4 2.5	18	5.3 1.6	6.0 2.3	6.4 3.1	7.8 4.6	5.8 2.3	5.6 2.1	6.1 2.3	6.7 2.1
3	6.0 2.3	5.7 2.1	6.3 2.2	7.2 2.8	7.1 3.1	6.2 2.5	6.1 2.6	6.3 2.2	19	5.6 1.8	6.4 2.8	6.6 2.8	7.9 4.8	5.5 1.9	5.8 2.1	6.0 2.1	7.1 2.2
4	5.6 2.3	6.3 2.4	6.6 2.4	7.3 2.8	6.8 3.0	6.5 2.8	6.1 2.3	6.3 2.1	20	5.9 2.2	6.4 2.5	6.7 2.7	8.4 5.3	5.8 2.1	5.9 2.4	6.4 1.9	7.1 2.0
5	5.6 2.2	6.6 2.7	7.6 3.3	7.3 2.7	7.0 3.1	6.3 2.8	5.9 2.1	6.4 2.1	21	6.0 2.4	6.5 2.4	6.9 2.6	8.8 5.6	6.3 2.4	6.4 2.4	6.6 1.9	7.1 2.0
6	5.9 2.2	6.7 2.7	7.9 2.8	7.4 2.9	7.2 3.1	6.5 2.9	5.9 1.8	6.6 2.1	22	6.2 2.4	6.6 2.4	7.0 2.5	8.5 5.2	6.5 2.6	6.4 2.2	7.0 2.1	7.2 2.2
7	6.2 2.4	6.8 2.5	7.7 2.8	7.3 2.8	6.9 3.0	6.4 2.7	6.0 1.8	6.5 1.9	23	6.4 2.4	6.7 2.2	6.9 2.4	8.3 5.0	6.5 2.7	6.5 2.0	7.2 2.1	6.9 2.1
8	6.4 2.5	7.2 2.6	8.0 3.1	7.1 2.8	6.8 3.0	6.6 2.7	6.2 2.2	6.5 2.0	24	6.6 2.4	6.7 2.2	7.3 2.7	8.0 4.9	6.3 2.4	7.2 2.6	7.0 2.1	6.7 2.3
9	6.9 2.8	7.3 2.4	8.0 3.1	7.0 2.8	6.5 2.9	6.6 2.6	6.5 2.0	6.4 1.8	25	6.6 2.3	6.9 2.2	7.4 2.8	7.8 4.7	6.2 2.4	6.9 2.2	7.1 2.2	6.5 2.5
10	6.9 2.3	7.0 2.1	7.7 3.1	6.9 2.8	6.3 2.9	6.4 2.3	6.2 1.9	6.0 1.7	26	6.8 2.4	7.0 2.6	6.9 2.7	7.8 4.7	6.4 2.4	6.9 2.1	6.7 2.2	6.2 2.4
11	7.0 2.3	7.0 2.1	7.6 3.3	6.7 3.2	6.3 2.9	6.1 2.1	6.3 1.9	5.8 1.8	27	6.8 2.4	6.9 2.3	6.2 2.7	7.8 4.6	6.4 2.2	6.4 1.8	6.2 1.9	6.1 2.2
12	6.9 2.1	7.1 2.2	7.2 3.5	6.7 3.3	6.2 2.8	6.1 2.1	6.7 2.7	5.8 2.0	28	6.6 2.4	6.6 2.3	6.4 2.8	7.7 4.4	6.5 2.3	6.0 1.8	5.6 1.7	6.1 2.3
13	6.9 2.1	6.8 2.4	6.7 3.4	6.3 3.2	6.6 3.1	5.9 2.0	6.2 2.0	5.8 2.0	29	6.5 2.2	6.1 2.1	6.3 2.6		6.5 2.1	5.9 1.9	5.7 1.7	6.3 2.4
14	7.1 2.3	6.4 2.3	6.9 3.5	6.4 3.4	6.0 2.6	5.8 2.1	5.6 2.0	5.9 2.0	30	6.3 2.2	5.8 1.9	6.5 2.8		6.4 2.3	6.0 2.4	6.0 2.2	6.6 2.5
15	6.6 2.5	5.8 2.1	6.8 3.7	6.6 3.4	5.7 2.3	5.6 1.9	5.4 1.7	6.2 2.3	31		5.6 1.8	6.6 2.9		6.0 1.9		6.0 2.8	
16	5.6 1.9	5.8 2.0	6.8 3.9	8.3 4.3	5.4 2.3	5.5 1.9	5.8 1.9	6.2 2.5									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 324

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb.	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	June
1	6.5 2.9	6.2 2.8	6.0 2.6	6.6 3.0	7.1 3.5	6.0 2.3	6.3 3.0	6.5 3.2	17	5.6 2.3	6.1 2.7	6.5 3.4	7.5 4.2	5.8 2.7	5.7 2.5	5.8 2.9	6.5 2.7
2	6.5 2.9	6.1 2.7	6.2 2.9	6.8 3.0	7.1 3.4	6.0 2.6	6.3 3.0	6.5 2.9	18	5.5 2.2	6.2 2.9	6.5 3.1	7.5 4.1	5.9 2.6	5.8 2.7	6.2 2.8	6.7 2.7
3	6.3 2.9	6.0 2.7	6.3 2.8	7.0 3.0	7.0 3.4	6.2 3.1	6.2 3.0	6.4 2.7	19	5.8 2.4	6.6 3.3	6.6 3.0	7.4 3.9	5.7 2.2	5.8 2.7	6.2 2.7	7.1 2.8
4	5.9 2.9	6.5 2.9	6.6 3.0	7.0 3.1	6.8 3.0	6.4 3.3	6.1 2.8	6.5 2.6	20	6.1 2.8	6.6 3.1	6.9 3.1	7.8 4.3	5.9 2.5	6.0 3.0	6.4 2.7	7.1 2.7
5	5.9 2.8	6.8 3.3	7.3 3.8	7.1 3.2	6.8 3.2	6.3 3.4	5.9 2.6	6.5 2.6	21	6.2 3.0	6.7 3.0	6.9 3.0	8.1 4.6	6.3 2.9	6.3 3.0	6.6 2.6	7.1 2.7
6	6.1 2.8	6.9 3.4	7.8 3.5	7.2 3.2	7.0 3.4	6.5 3.4	6.0 2.5	6.7 2.7	22	6.5 3.1	6.8 3.0	6.9 3.0	7.8 4.6	6.4 3.0	6.4 2.8	6.9 2.8	7.2 2.9
7	6.3 3.0	6.9 3.2	7.5 3.4	7.1 3.4	6.8 3.3	6.4 3.3	6.2 2.5	6.6 2.5	23	6.6 3.1	6.8 3.0	6.8 2.9	7.5 4.3	6.4 3.2	6.5 2.7	7.2 2.8	7.0 2.7
8	6.5 3.2	7.3 3.3	7.7 3.4	6.9 3.3	6.6 3.3	6.6 3.2	6.3 2.7	6.6 2.5	24	6.8 3.1	6.7 2.9	7.2 3.0	7.2 4.0	6.3 3.0	7.1 3.3	7.0 2.8	6.8 2.9
9	7.0 3.5	7.3 3.3	7.8 3.7	6.7 3.4	6.3 3.3	6.6 3.1	6.6 2.6	6.5 2.3	25	6.9 3.1	6.9 2.9	7.3 3.3	7.0 4.0	6.1 2.8	7.0 2.8	7.1 2.8	6.6 3.0
10	7.1 3.3	7.0 3.1	7.4 3.7	6.8 3.4	6.1 3.2	6.5 2.9	6.4 2.5	6.2 2.3	26	7.1 3.1	7.0 2.9	6.7 3.4	7.0 3.8	6.3 2.9	6.9 2.8	6.7 2.8	6.4 2.9
11	7.1 3.3	7.0 2.8	7.3 3.5	6.6 3.7	6.1 3.2	6.3 2.7	6.4 2.5	6.1 2.2	27	7.1 3.2	6.9 3.2	6.5 3.1	7.1 3.9	6.4 2.7	6.5 2.5	6.3 2.5	6.2 2.7
12	7.0 3.1	7.2 2.9	7.0 3.7	6.6 3.7	6.1 3.1	6.3 2.6	6.9 3.3	6.0 2.5	28	6.8 3.1	6.6 3.0	6.2 3.1	7.2 3.7	6.4 2.7	6.1 2.4	5.8 2.3	6.2 2.8
13	7.1 2.9	7.0 3.1	6.5 3.5	6.3 3.5	6.4 3.4	6.2 2.6	6.3 2.4	6.0 2.5	29	6.7 2.9	6.2 2.7	6.2 3.0		6.5 2.7	6.0 2.5	5.7 2.2	6.3 3.0
14	7.3 3.0	6.6 3.0	6.6 3.3	6.4 3.6	6.0 2.9	6.2 2.6	5.8 2.6	6.0 2.6	30	6.6 2.9	5.8 2.5	6.3 3.1		6.4 2.7	6.1 2.9	5.9 2.7	6.4 2.9
15	6.7 3.3	6.1 2.8	6.4 3.3	6.8 3.6	5.8 2.6	6.0 2.4	5.8 2.2	6.1 2.8	31		5.6 2.5	6.4 3.1		6.2 2.4		6.2 3.2	
16	5.9 3.0	6.0 2.7	6.5 3.4	8.2 4.7	5.7 2.4	5.7 2.4	5.6 2.4	6.3 2.9									

Crest Stages:	Date	Time	Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 325

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
MINER SLOUGH AT FIVE POINTS

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan.	Feb.	Mar	Apr	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	7.0 3.4	6.6 3.6	6.3 3.3	6.5 4.5	8.1 5.7	6.5 3.3	6.9 3.5	7.0 3.8	17	5.9 3.4	6.0 3.8	7.0 4.8	8.1 5.4	6.1 4.5	6.3 3.2	6.4 3.4	7.0 3.1
2	6.9 3.4	6.3 3.5	6.3 3.5	6.8 4.7	7.8 5.2	6.4 3.3	6.9 3.5	7.0 3.5	18	5.9 3.3	6.1 4.0	6.9 4.6	8.2 5.8	5.8 3.8	NR NR	6.7 3.3	7.2 3.1
3	6.7 3.5	6.2 3.5	6.3 3.5	7.1 4.9	7.5 4.6	6.8 3.7	6.8 3.6	6.9 3.2	19	6.2 3.3	6.5 4.3	7.1 4.3	8.3 6.1	6.4 3.2	NR NR	6.5 3.2	7.6 3.3
4	6.3 3.5	6.7 3.7	6.6 4.0	7.3 4.6	7.1 4.3	7.0 3.9	6.8 3.3	6.9 3.2	20	6.5 3.5	6.5 4.5	7.0 4.4	10.0 7.8	6.5 3.2	NR NR	6.9 3.2	7.5 3.2
5	6.3 3.4	7.1 4.0	8.3 5.0	7.3 4.4	7.5 4.4	7.0 3.9	6.6 3.2	7.0 3.2	21	6.7 3.5	6.7 4.0	7.2 4.7	11.4 10.2	6.7 3.5	NR NR	7.0 3.2	7.5 3.1
6	6.5 3.5	7.1 4.0	8.0 4.8	7.4 4.4	7.4 4.6	7.1 3.8	6.6 3.1	7.2 3.2	22	6.9 3.6	6.9 4.0	7.2 4.2	10.9 9.9	7.2 3.7	NR NR	7.3 3.3	7.6 3.2
7	6.7 3.6	7.2 3.9	7.7 4.6	7.3 4.8	7.1 4.6	7.1 3.6	6.8 3.1	7.2 3.1	23	7.0 3.6	6.8 3.5	7.2 4.2	10.2 9.0	7.0 3.9	NR NR	7.5 3.3	7.5 3.2
8	6.9 3.8	7.5 4.0	8.3 4.6	6.9 4.8	7.0 4.6	7.3 3.7	7.0 3.3	7.1 3.1	24	7.1 3.6	7.1 3.3	7.3 4.2	9.6 8.4	6.9 3.6	NR NR	7.4 3.3	7.3 3.4
9	7.5 4.0	7.5 3.8	8.5 4.8	6.8 4.9	6.8 4.6	7.3 3.6	7.2 3.2	7.1 3.0	25	7.2 3.6	7.3 3.4	7.6 4.4	9.3 8.0	6.6 3.6	NR NR	7.6 3.3	7.2 3.6
10	7.4 3.7	7.3 3.8	8.0 4.7	6.9 5.1	6.4 4.6	7.1 3.4	7.0 3.1	6.8 3.0	26	7.4 3.7	7.5 3.4	6.9 4.8	9.2 7.6	7.0 3.5	NR NR	7.3 3.3	6.9 3.4
11	7.5 3.7	7.3 3.6	7.8 4.8	6.7 5.4	6.5 4.5	6.9 3.2	7.0 3.1	6.7 3.0	27	7.4 3.7	7.4 3.8	6.9 4.5	9.0 7.1	6.9 3.3	NR NR	6.9 3.1	6.7 3.2
12	7.4 3.7	7.4 3.7	7.4 5.0	6.6 5.3	6.4 4.6	6.9 3.2	7.4 3.9	6.6 3.1	28	7.2 3.7	7.0 3.4	6.6 4.5	8.6 6.4	7.0 3.4	6.7 3.1	6.3 3.1	6.7 3.3
13	7.4 3.6	7.2 4.0	7.0 4.9	6.3 5.2	6.7 5.0	6.8 3.2	6.9 3.1	6.6 3.1	29	7.1 3.6	6.6 3.3	6.5 4.3		7.2 3.4	6.6 3.2	6.2 3.1	6.7 3.3
14	7.6 3.9	6.8 4.0	7.1 5.0	6.8 4.9	6.2 4.3	6.7 3.2	6.4 3.2	6.7 3.0	30	6.9 3.6	6.2 3.3	6.6 4.5		7.2 3.4	6.8 3.4	6.2 3.2	7.0 3.4
15	6.9 4.2	6.3 3.8	7.1 4.9	6.9 5.1	5.9 4.0	6.4 3.1	6.0 3.1	6.7 3.2	31		6.1 3.2	6.6 4.6		6.7 3.3		6.6 3.8	
16	6.2 3.6	6.1 3.7	7.1 5.0	8.8 5.5	5.9 3.9	6.0 3.2	6.0 3.1	6.9 3.4									

Crest Stages:	Date	Time	Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 326

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
YOLO BYPASS AT LIBERTY ISLAND

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar.	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	6.6 2.5	6.3 2.4	6.4 2.4	6.8 2.4	7.5 4.0	6.2 1.8	6.6 2.5	6.8 2.8	17	5.8 2.4	6.3 2.4	6.8 3.1	7.9 4.0	6.0 2.4	6.0 2.0	6.2 2.4	6.8 1.9
2	6.5 2.5	6.1 2.4	6.6 2.6	7.1 2.6	7.4 3.6	6.3 2.0	6.6 2.5	6.7 2.5	18	5.7 2.4	6.4 2.6	6.7 2.6	7.9 4.2	6.1 2.2	6.0 2.1	6.5 2.2	7.1 1.9
3	6.3 2.5	6.2 2.4	6.6 2.5	7.5 2.8	7.1 2.9	6.5 2.5	6.5 2.5	6.6 2.1	19	6.1 2.4	6.8 3.0	6.9 2.4	8.0 4.3	5.8 1.6	6.2 2.2	6.5 1.9	7.5 2.0
4	6.0 2.5	6.7 2.5	7.0 2.6	7.6 2.7	6.9 2.8	6.9 2.7	6.5 2.4	6.7 1.9	20	6.3 2.5	6.9 2.9	7.0 2.5	10.5 7.1	6.1 1.8	6.3 2.6	6.8 1.7	7.5 1.8
5	6.0 2.5	7.0 2.8	8.4 3.4	7.6 2.6	7.3 2.9	6.7 2.9	6.3 2.1	6.7 1.9	21	6.5 2.7	6.9 2.7	7.3 2.5	11.7 10.6	6.7 2.2	6.8 2.5	7.0 1.9	7.4 1.8
6	6.4 2.5	7.1 2.8	8.2 3.0	7.8 2.8	7.5 2.8	6.9 2.7	6.3 2.0	6.9 2.0	22	6.7 2.7	7.0 2.7	7.3 2.3	11.0 10.2	6.8 2.5	6.8 2.1	7.3 1.9	7.5 2.0
7	6.6 2.5	7.3 2.7	8.1 3.0	7.7 2.8	7.1 2.7	6.7 2.5	6.4 2.1	6.8 1.7	23	6.8 2.6	7.1 2.6	7.3 2.3	10.1 8.9	6.9 2.7	7.0 2.0	7.5 1.8	7.2 1.9
8	6.9 2.6	7.6 2.7	8.3 4.0	7.4 2.6	7.0 2.6	7.0 2.6	6.6 2.4	6.8 1.9	24	7.0 2.5	7.1 2.6	7.7 2.6	9.3 7.7	6.7 2.4	7.6 2.6	7.3 2.0	7.0 2.2
9	7.5 2.9	7.7 2.4	8.4 3.3	7.4 2.6	6.8 2.6	7.0 2.6	6.8 2.3	6.7 1.5	25	7.1 2.5	7.2 2.6	7.8 2.6	8.9 7.2	6.6 2.3	7.3 2.3	7.4 2.1	6.8 2.5
10	7.3 2.5	7.4 2.4	8.1 3.2	7.3 2.8	6.6 2.4	6.8 2.3	6.6 2.1	6.3 1.5	26	7.3 2.5	7.4 2.6	7.3 2.6	8.6 6.1	6.8 2.2	7.3 2.2	7.0 2.1	6.6 2.4
11	7.5 2.5	7.4 2.4	7.9 3.2	7.1 3.1	6.6 2.4	6.6 2.2	6.6 2.1	6.2 1.6	27	7.2 2.6	7.3 3.0	7.1 2.5	8.2 5.4	6.8 1.9	6.8 1.9	6.5 1.7	6.4 2.1
12	7.4 2.5	7.6 2.4	7.6 3.3	7.0 3.1	6.5 2.5	6.5 2.1	7.1 2.7	6.1 1.8	28	7.0 2.5	6.9 2.7	6.7 2.7	7.9 4.7	6.9 2.2	6.3 1.9	6.0 1.6	6.5 2.3
13	7.5 2.5	7.3 2.5	6.9 3.2	6.7 2.9	6.9 2.8	6.3 1.9	6.5 2.0	6.2 2.0	29	6.9 2.4	6.5 2.4	6.7 2.6		6.8 2.0	6.2 2.0	6.1 1.6	6.5 2.1
14	7.6 2.5	6.8 2.4	7.0 3.2	6.8 3.3	6.2 2.2	6.2 2.0	6.0 2.1	6.3E 1.9	30	6.7 2.4	6.1 2.4	6.8 2.6		6.9 2.2	6.4 2.6	6.1 2.2	6.6 2.4
15	7.0 2.6	6.2 2.4	6.9 3.3	7.0 3.7	5.7 2.0	5.9 1.9	5.8 1.7	6.3E 2.3E	31		6.0 2.4	7.0 2.4		6.3 1.8		6.4 2.8	
16	6.0 2.5	6.2 2.4	6.9 3.4	8.7 4.4	5.7 2.0	6.0 1.8	6.2 2.0	6.6 2.4									

Crest Stages:	Date	
	Time	
	Stage	

NR – No Record
E – Estimated

NOTE: Single daily values indicate daily mean stage only.

TABLE 327

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
THREEMILE SLOUGH AT SAN JOAQUIN RIVER

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	2.8 -0.5	2.6 -0.6	2.4 -0.8	3.0 -0.5	3.5 0.1	2.4 -1.0	2.2 -0.5	3.3 0.2	17	2.0 -1.1	2.5 -0.7	2.9 0.0	NR NR	2.2 -0.6	2.0 -0.9	2.3 -0.6	3.3 -0.3
2	2.8 -0.5	2.4 -0.8	2.7 -0.5	3.2 -0.5	3.5 -0.1	2.4 -0.8	2.7 -0.5	3.3 0.0	18	1.9 -1.2	2.6 -0.5	2.8 -0.3	NR NR	2.3 -0.8	2.1 -0.8	2.6 -0.6	3.6 -0.2
3	2.6 -0.5	2.4 -0.7	2.7 -0.6	3.4 -0.4	3.3 -0.6	2.7 -0.3	2.5 -0.4	3.3 -0.3	19	2.2 -1.0	3.0 0.0	3.0 -0.5	NR NR	2.1 -1.1	2.2 -0.8	2.6 -0.7	4.0 -0.1
4	2.2 -0.5	2.8 -0.4	3.1 -0.4	3.5 -0.3	3.2 -0.4	2.8 -0.1	2.5 -0.6	3.3 -0.3	20	2.5 -0.6	3.1 -0.2	3.2 -0.4	4.1 0.7	2.3 -0.9	2.3 -0.5	2.8 -0.8	4.1 -0.2
5	2.2 -0.6	3.2 -0.1	NR NR	3.6 -0.3	3.3 -0.3	2.8 0.0	2.3 -0.8	3.4 -0.4	21	2.6 -0.4	3.1 -0.4	3.3 -0.4	4.5 1.0	2.8 -0.6	2.7 -0.4	NR NR	NR NR
6	2.4 -0.6	3.3 0.0	NR NR	3.7 -0.2	3.4 -0.1	2.9 0.0	2.4 -1.0	3.5 -0.3	22	2.9 -0.4	3.3 -0.4	3.3 -0.5	4.2 0.8	2.9 -0.3	2.8 -0.6	NR NR	NR NR
7	2.7 -0.4	3.4 -0.2	4.1 0.0	3.6 -0.1	3.2 -0.1	2.9 -0.2	2.6 -0.9	3.5 -0.5	23	3.0 -0.4	3.3 -0.5	3.3 -0.5	3.9 0.5	2.9 -0.1	2.9 -0.8	NR NR	NR NR
8	3.0 -0.3	3.7 -0.1	4.3 0.1	3.4 -0.1	3.0 -0.2	3.0 -0.2	2.8 -0.6	3.4 -0.4	24	3.2 -0.4	3.2 -0.6	3.6 -0.2	3.6 0.5	2.7 -0.5	3.5 -0.2	NR NR	NR NR
9	3.5 0.0	3.8 -0.3	4.3 0.2	3.3 -0.1	2.8 -0.3	3.0 -0.4	3.0 -0.8	3.4 -0.6	25	3.3 -0.4	3.4 -0.5	3.7 -0.2	3.4 0.5	2.6 -0.6	3.4 -0.7	NR NR	NR NR
10	3.5 -0.3	3.5 -0.6	3.9 0.2	3.3 0.0	2.5 -0.3	2.8 -0.6	2.8 -1.0	3.0 -0.7	26	3.5 -0.3	3.5 -0.5	3.2 -0.1	3.4 0.4	2.8 -0.5	3.3 -0.7	3.6 -0.3	NR NR
11	3.6 -0.4	3.5 -0.6	3.8 0.0	3.1 0.2	2.5 -0.3	2.6 -0.8	2.9 -0.9	2.9 -0.6	27	3.5 -0.3	3.4 -0.2	3.0 -0.3	3.6 0.5	2.8 -0.7	2.8 -1.0	3.1 -0.6	NR NR
12	3.5 -0.6	3.7 -0.6	3.4 0.2	3.0 0.2	2.5 -0.3	2.6 -0.8	3.2 -0.2	2.7 -0.5	28	3.2 -0.3	3.1 -0.5	2.7 -0.3	3.6 0.2	2.9 -0.7	2.5 -1.2	2.6 -0.7	NR NR
13	3.5 -0.6	3.5 -0.3	2.9 0.0	NR NR	2.8 -0.1	2.5 -0.9	2.7 -0.9	2.8 -0.4	29	3.2 -0.6	2.6 -0.7	2.6 -0.5		2.9 -0.8	2.3 -1.0	2.7 -0.7	NR NR
14	3.7 -0.4	3.0 -0.4	3.0 -0.1	NR NR	2.4 -0.6	2.4 -0.9	2.2 -0.8	2.9 -0.4	30	3.0 -0.6	2.2 -0.9	2.7 -0.3		3.0 -0.7	2.6 -0.6	3.0 -0.3	3.3 0.1
15	3.1 -0.2	2.5 -0.6	2.8 -0.1	NR NR	2.1 -0.8	2.2 -1.0	1.9 -1.1	3.2 -0.2	31		2.1 -1.0	2.8 -0.4		2.6 -1.0		3.0 0.2	
16	2.2 -0.7	2.4 -0.7	2.9 0.0	4.7 NR	2.0 -1.0	1.9 -1.1	1.9 -1.0	3.2 0.0									

Crest Stages:	Date	
	Time	
	Stage	

NR – No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 328

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER AT RIO VISTA

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan.	Feb.	Mar	Apr	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	6.7 2.4	6.4 2.2	6.4 2.1	7.0 2.4	7.6 3.1	6.3 1.8	6.7 2.6	6.9 3.0	17	5.8 1.7	6.3 2.2	6.8 3.1	7.8 3.8	6.2 2.6	6.1 2.2	6.3 2.6	7.3 2.3
2	6.6 2.4	6.2 2.1	6.6 2.4	7.3 2.4	7.5 2.9	6.4 2.1	6.7 2.7	6.9 2.7	18	5.8 1.7	6.5 2.4	6.7 2.7	7.9 3.6	6.3 2.3	6.2 2.3	6.6 2.5	7.3 2.3
3	6.4 2.4	6.2 2.2	6.7 2.4	7.6 2.4	7.3 2.4	6.7 2.6	6.6 2.8	6.8 2.4	19	6.2 1.9	6.8 3.0	6.9 2.5	7.8 3.3	6.0 1.9	6.4 2.3	6.6 2.2	7.8 2.3
4	6.0 2.5	6.7 2.4	7.1 2.4	7.7 2.5	7.1 2.5	6.9 2.9	6.6 2.4	6.9 2.2	20	6.4 2.4	6.9 2.7	7.1 2.5	8.2 3.8	6.3 2.1	6.5 2.7	6.9 2.0	7.7 2.2
5	6.1 2.3	7.1 2.8	8.2 3.4	7.6 2.4	7.4 2.6	6.8 2.9	6.4 2.2	7.0 2.2	21	6.5 2.6	6.9 2.4	7.3 2.4	8.6 4.2	6.8 2.4	7.0 2.7	7.1 1.9	7.7 2.1
6	6.4 2.4	7.1 2.7	8.3 2.8	7.8 2.8	7.5 2.8	7.0 2.8	6.4 1.9	7.1 2.3	22	6.8 2.5	7.1 2.4	7.3 2.3	8.4 3.8	7.0 2.6	7.0 2.4	7.5 2.1	7.8 2.3
7	6.7 2.6	7.3 2.5	8.1 2.8	7.7 2.7	7.3 2.7	6.8 2.7	6.6 1.9	7.1 2.0	23	6.9 2.5	7.1 2.2	7.3 2.3	8.1 3.5	7.1 2.8	7.2 2.1	7.7 2.1	7.5 2.2
8	7.0 2.7	7.6 2.5	8.3 3.1	7.4 2.7	7.1 2.7	7.0 2.7	6.8 2.3	7.0 2.1	24	7.1 2.4	7.1 2.2	7.7 2.6	7.8 3.5	6.8 2.5	7.8 2.7	7.5 2.1	7.3 2.5
9	7.5 2.9	7.7 2.2	8.4 3.0	7.3 2.8	6.9 2.7	7.0 2.6	7.0 2.1	6.9 1.9	25	7.2 2.4	7.3 2.2	7.8 2.7	7.6 3.4	6.7 2.3	7.6 2.2	7.6 2.2	7.0 2.7
10	7.5 2.4	7.4 1.9	8.0 2.8	7.3 2.8	6.7 2.7	6.8 2.4	6.7 2.0	6.6 1.8	26	7.4 2.5	7.4 2.7	7.3 2.5	7.7 3.4	7.0 2.3	7.5 2.2	7.2 2.2	6.8 2.6
11	7.6 2.3	7.4 2.0	7.9 3.0	7.1 3.2	6.7 2.7	6.6 2.2	6.8 2.0	6.4 1.9	27	7.4 2.4	7.3 2.7	7.1 2.5	7.8 3.5	6.9 2.1	7.0 1.8	6.7 2.0	6.6 2.4
12	7.5 2.1	7.6 2.3	7.5 3.0	7.0 3.2	6.7 2.8	6.6 2.2	7.2 2.9	6.3 2.2	28	7.1 2.2	7.0 2.2	6.8 2.6	7.8 3.3	7.0 2.1	6.5 1.8	6.1 1.8	6.7 2.6
13	7.5 2.1	7.3 2.3	6.9 2.8	6.7 3.1	7.0 3.0	6.4 2.2	6.6 2.1	6.4 2.3	29	7.0 2.2	6.6 2.0	6.7 2.4		7.0 2.1	6.4 2.0	6.2 1.9	6.8 2.7
14	7.6 2.3	6.8 2.2	7.0 2.8	6.7 3.4	6.5 2.5	6.3 2.3	6.2 2.2	6.5 2.3	30	6.8 2.2	6.2 1.8	6.8 2.7		7.0 2.2	6.7 2.5	6.6 2.5	7.1 2.7
15	7.1 2.6	6.2 2.1	6.8 2.9	7.0 3.5	6.1 2.3	6.0 2.1	5.9 1.9	6.8 2.6	31		6.0 1.8	7.0 2.6		6.5 1.8		6.6 3.0	
16	6.1 1.9	6.2 2.0	6.8 3.2	8.6 4.3	5.9 2.2	6.0 2.1	6.3 2.0	7.0 2.7									

Crest Stages:	Date	Time	Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 329

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
THREEMILE SLOUGH AT SACRAMENTO RIVER

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan.	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	3.4 -0.7	3.2 -0.9	3.2 -1.0	3.8 -0.7	4.2 -0.2	3.1 -1.3	3.4 -0.5	3.7 -0.2	17	2.6 -1.4	3.2 -0.8	3.6 0.0	4.6 0.6	2.8 -0.6	2.8 -1.0	3.4 -0.6	3.8 -0.8
2	3.4 -0.8	3.0 -1.0	3.4 -0.7	4.0 -0.8	4.2 -0.3	3.2 -1.0	3.4 -0.5	3.7 -0.5	18	2.6 -1.5	3.3 -0.5	3.5 -0.4	4.6 0.5	2.9 -0.9	2.9 -0.9	3.4 -0.7	4.1 -0.6
3	3.2 -0.7	3.0 -0.9	3.5 -0.7	4.2 -0.8	4.0 -0.8	3.4 -0.6	3.4 -0.4	3.6 -0.8	19	2.9 -1.2	3.7 -0.1	3.7 -0.6	4.5 0.1	2.7 -1.3	3.1 -0.9	3.3 -0.9	4.5 -0.8
4	2.8 -0.7	3.6 -0.6	3.8 -0.7	4.4 -0.7	3.8 -0.8	3.6 -0.4	3.3 -0.7	3.7 -0.9	20	3.2 -0.7	3.7 -0.4	3.9 -0.6	4.9 0.6	3.0 -1.2	3.2 -0.6	3.7 -1.0	4.5 -1.0
5	2.9 -0.8	3.9 -0.2	4.9 0.2	4.4 -0.7	4.0 -0.6	3.5 -0.3	3.2 -1.0	3.7 -0.9	21	3.3 -0.6	3.8 -0.6	4.1 -0.7	5.3 1.0	3.5 -0.8	3.7 -0.6	3.9 -1.2	4.5 -1.0
6	3.2 -0.8	4.0 -0.3	5.1 -0.3	4.5 -0.3	4.2 -0.4	3.7 -0.2	3.2 -1.2	3.8 -0.9	22	3.5 -0.6	4.0 -0.6	4.1 -0.8	5.1 0.6	3.7 -0.6	3.7 -0.8	4.3 -1.0	4.5 -0.8
7	3.4 -0.5	4.2 -0.5	4.9 -0.4	4.4 -0.4	4.0 -0.4	3.6 -0.3	3.4 -1.2	3.6 -1.1	23	3.7 -0.7	3.9 -0.9	4.1 -0.8	4.7 0.3	3.7 -0.4	3.9 -1.1	4.5 -1.1	4.2 -1.0
8	3.7 -0.5	4.5 -0.5	5.1 -0.1	4.2 -0.3	3.8 -0.5	3.8 -0.4	3.5 -0.8	3.8 -1.0	24	3.9 -0.7	3.9 -0.9	4.4 -0.6	4.5 0.2	3.5 -0.7	4.5 -0.5	4.3 -1.0	4.0 -0.7
9	4.3 -0.3	4.6 -0.7	5.2 -0.2	4.1 -0.3	3.6 -0.5	3.8 -0.4	3.7 -1.0	3.7 -1.3	25	4.0 -0.7	4.1 -0.9	4.6 -0.4	4.2 0.2	3.4 -0.8	4.3 -1.0	4.3 -0.9	3.7 -0.5
10	4.3 -0.7	4.3 -1.1	4.8 -0.3	4.1 0.1	3.4 -0.5	3.6 -0.7	3.5 -1.2	3.4 -1.2	26	4.2 -0.6	4.2 -0.4	4.0 -0.6	4.3 0.2	3.6 -0.8	4.2 -1.0	3.9 -0.9	3.5 -0.6
11	4.3 -0.8	4.3 -1.0	4.6 -0.1	3.9 0.1	3.4 -0.4	3.4 -0.9	3.5 -1.1	3.2 -1.2	27	4.1 -0.7	4.1 -0.4	3.8 -0.6	4.4 0.2	3.6 -1.1	3.7 -1.3	3.5 -1.2	3.4 -0.8
12	4.3 -1.0	4.5 -0.7	4.2 -0.1	3.8 0.1	3.3 -0.5	3.4 -1.0	3.9 -0.3	3.1 -1.0	28	3.9 -0.7	3.8 -0.9	3.5 -0.6	4.4 0.0	3.7 -1.0	3.2 -1.4	2.9 -1.3	3.4 -0.5
13	4.2 -0.8	4.2 -0.7	3.7 -0.3	3.5 0.0	3.7 -0.2	3.2 -1.0	3.4 -1.1	3.2 -0.8	29	3.8 -0.9	3.3 -1.1	3.4 -0.8		3.7 -1.1	3.1 -1.2	3.0 -1.3	3.6 -0.5
14	4.4 -0.8	3.7 -0.8	3.8 -0.3	3.6 0.3	3.1 -0.7	3.1 -0.9	2.8 -1.0	3.3 -0.8	30	3.6 -0.9	2.9 -1.3	3.6 -0.5		3.7 -0.9	3.4 -0.7	3.3 -0.7	3.8 -0.4
15	3.9 -0.6	3.2 -0.9	3.6 -0.2	3.9 0.3	2.8 -0.9	2.8 -1.1	2.7 -1.3	3.6 -0.6	31		2.8 -1.3	3.7 -0.5		3.2 -1.3		3.7 -0.2	
16	2.9 -1.2	3.1 -1.0	3.6 0.2	5.4 1.2	2.6 -1.0	2.8 -1.1	3.0 -1.1	3.8 -0.5									

Crest Stages:	Date	Time	Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 330

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
YOLO BYPASS AT LINDSEY SLOUGH

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr	May	June
1	6.7 2.3	6.5 2.1	6.6 2.0	7.0 2.3	7.7 3.1	6.3 1.6	6.7 2.5	7.0 2.9	17	5.9 1.5	6.5 2.1	6.9 3.1	8.0 3.8	6.1 2.4	6.1 2.0	6.6 2.4	7.0 2.0
2	6.6 2.2	6.3 2.0	6.7 2.3	7.2 2.3	7.6 2.9	6.4 1.9	6.7 2.6	7.0 2.5	18	5.9 1.5	6.7 2.4	6.8 2.7	8.0 3.7	6.2 2.1	6.1 2.1	6.6 2.4	7.4 2.0
3	6.4 2.3	6.4 2.2	6.9 2.3	7.6 2.3	7.3 2.3	6.7 2.4	6.6 2.6	6.9 2.2	19	6.2 1.6	7.0 2.9	7.0 2.5	8.0 3.4	5.9 1.6	6.4 2.1	6.6 2.0	7.8 2.1
4	6.1 2.3	6.9 2.4	7.2 2.3	7.7 2.4	7.1 2.4	6.9 2.6	6.6 2.2	7.0 2.0	20	6.5 2.3	7.1 2.6	7.1 2.4	8.3 4.3	6.2 1.8	6.5 2.5	7.0 1.7	7.8 1.9
5	6.1 2.1	7.3 2.7	8.6 3.5	7.7 2.3	7.4 2.5	6.8 2.7	6.5 2.0	7.0 2.0	21	6.6 2.4	7.1 2.4	7.4 2.3	8.9 4.7	6.8 2.1	7.0 2.4	7.2 1.7	7.7 1.9
6	6.5 2.2	7.3 2.7	8.5 2.8	7.9 2.6	7.6 2.6	7.0 2.6	6.5 1.7	7.2 2.1	22	6.9 2.4	7.3 2.4	7.5 2.2	8.7 4.1	7.0 2.4	7.1 2.1	7.6 1.9	7.8 2.1
7	6.8 2.4	7.5 2.5	8.3 2.7	7.8 2.5	7.2 2.6	6.9 2.4	6.6 1.7	7.1 1.8	23	7.0 2.3	7.3 2.2	7.4 2.2	8.3 3.8	7.0 2.5	7.2 1.8	7.8 1.9	7.4 2.0
8	7.1 2.5	7.9 2.5	8.5 3.1	7.5 2.6	7.2 2.5	7.1 2.4	6.8 2.2	7.0 1.9	24	7.2 2.3	7.3 2.1	7.8 2.5	8.0 3.7	6.8 2.2	7.8 2.4	7.6 2.0	7.3 2.2
9	7.6 2.7	7.9 2.2	8.6 2.9	7.5 2.7	6.9 2.5	7.1 2.5	7.0 1.9	7.0 1.7	25	7.2 2.2	7.4 2.1	8.0 2.5	7.7 3.7	6.7 2.1	7.6 2.0	7.7 2.1	7.0 2.5
10	7.6 2.2	7.7 1.9	8.2 2.8	7.4 2.7	6.7 2.5	6.9 2.2	6.8 1.7	6.4 1.7	26	7.4 2.3	7.6 2.6	7.3 2.6	7.8 3.6	7.0 2.1	7.5 2.0	7.2 2.1	6.8 2.4
11	7.7 2.2	7.7 2.0	8.0 2.8	7.2 3.0	6.7 2.5	6.7 2.0	6.8 1.8	6.5 1.8	27	7.4 2.2	7.5 2.6	7.2 2.4	7.9 3.6	7.0 1.9	7.0 1.6	6.7 1.8	6.7 2.2
12	7.6 2.2	7.8 2.2	7.7 3.0	7.2 3.1	6.6 2.5	6.6 2.0	7.2 2.7	6.3 1.9	28	7.1 2.1	7.1 2.2	6.8 2.5	7.8 3.3	7.0 2.0	6.5 1.6	6.2 1.7	6.7 2.4
13	7.6 1.9	7.5 2.2	7.0 2.8	6.8 3.0	7.0 2.8	6.5 1.9	6.7 1.9	6.4 2.1	29	7.1 2.1	6.7 1.9	6.7 2.3		7.0 1.9	6.4 1.7	6.3 1.7	6.8 2.2
14	7.7 2.1	7.0 2.2	7.1 2.8	6.9 3.4	6.4 2.2	6.3 2.1	6.1 2.1	6.6 2.1	30	6.8 2.1	6.3 1.7	6.9 2.6		7.1 2.0	6.8 2.3	6.6 2.3	7.2 2.4
15	7.1 2.4	6.4 2.0	6.9 3.0	7.1 4.1	5.9 2.0	6.0 1.9	6.0 1.7	6.9 2.4	31		6.1 1.7	7.0 2.5		6.5 1.6		6.6 2.9	
16	6.1 1.6	6.4 2.0	7.0 3.3	8.8 4.3	5.8 2.0	6.1 1.9	6.4 1.9	7.0 2.5									

Crest Stages:	Date	Time	Stage

NR — No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 331

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SAN JOAQUIN RIVER AT ANTIOCH

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	13.0 9.1	12.7 8.8	12.7 8.7	13.3 9.1	13.7 9.6	12.6 8.5	12.9 9.2	13.0 9.4	17	12.1 8.3	12.7 9.1	13.1 9.7	14.0 10.3	12.3 9.0	12.4 8.8	12.8 9.0	13.1 8.9
2	12.9 9.0	12.5 8.8	12.9 9.1	13.6 8.9	13.7 9.4	12.6 8.7	12.9 9.1	13.0 9.2	18	12.0 8.3	12.8 9.1	13.0 9.3	14.0 10.1	12.3 8.7	12.4 8.8	12.8 9.0	13.4 8.9
3	12.7 9.1	12.5 8.9	13.0 9.1	13.7 9.0	13.5 9.3	12.9 9.2	12.8 9.3	13.1 8.9	19	12.3 8.5	13.2 9.6	13.2 9.1	13.9 9.8	12.1 8.3	12.6 8.8	12.8 8.8	13.9 9.0
4	12.3 9.0	13.0 9.2	13.3 9.1	13.8 9.1	13.4 9.0	13.0 9.4	12.7 9.0	13.1 8.8	20	12.6 9.0	13.2 9.3	13.4 9.1	14.3 10.2	12.4 8.5	12.7 9.1	13.1 8.7	13.9 8.9
5	12.4 9.0	13.4 9.5	14.5 10.1	13.8 9.1	13.4 9.1	13.0 9.4	12.7 8.7	13.1 8.8	21	12.7 9.1	13.3 9.1	13.5 9.0	14.7 10.5	12.9 8.8	13.0 9.2	13.3 8.6	13.9 8.8
6	12.7 9.0	13.5 9.4	14.6 9.5	14.0 9.4	13.6 9.3	13.1 9.5	12.7 8.6	13.2 8.8	22	13.0 9.1	13.4 9.1	13.5 8.9	14.4 10.1	13.1 9.1	13.2 8.9	13.7 8.8	14.0 9.0
7	12.9 9.2	13.6 9.2	14.4 9.5	13.8 9.3	13.5 9.3	13.1 9.3	12.9 8.7	13.2 8.6	23	13.2 9.0	13.5 8.9	13.5 8.9	14.1 9.9	13.1 9.2	13.3 8.7	13.9 8.7	13.7 8.9
8	13.2 9.3	13.9 9.2	14.6 9.8	13.6 9.4	13.2 9.2	13.1 9.3	13.0 8.9	13.2 8.7	24	13.3 9.0	13.4 8.9	13.9 9.2	13.9 9.8	12.9 9.0	13.9 9.2	13.7 8.7	13.4 9.0
9	13.8 9.5	14.0 9.0	14.6 9.7	13.5 9.5	13.0 9.2	13.2 9.2	13.2 8.7	13.1 8.5	25	13.4 9.0	13.6 8.9	14.0 9.3	13.5 9.8	12.8 8.9	13.8 8.8	13.7 8.8	13.1 9.1
10	13.8 9.1	13.7 8.6	14.2 9.5	13.5 9.5	12.8 9.2	13.0 9.0	13.0 8.6	12.8 8.5	26	13.6 9.0	13.8 8.9	13.4 9.1	13.7 9.8	13.1 8.9	13.7 8.8	13.3 8.7	12.9 9.1
11	13.8 9.0	13.7 8.8	14.1 9.5	13.3 9.8	12.8 9.2	12.8 8.8	13.0 8.7	12.6 8.6	27	13.6 9.1	13.6 9.3	13.2 9.1	13.9 10.0	13.1 8.6	13.2 8.4	12.9 8.5	12.8 9.1
12	13.8 8.8	13.9 9.0	13.6 9.7	13.3 9.8	12.7 9.2	12.8 8.8	13.3 9.3	12.4 8.7	28	13.3 9.0	13.3 8.9	12.9 9.1	13.9 9.7	13.2 8.7	12.7 8.4	12.3 8.4	12.9 9.3
13	13.7 8.9	13.6 8.9	13.2 9.5	13.0 9.7	13.0 9.4	12.7 8.7	12.9 8.7	12.5 8.8	29	13.3 8.9	12.8 8.7	12.9 9.0		13.2 8.6	12.6 8.6	12.4 8.5	13.1 9.4
14	13.9 9.2	13.1 8.8	13.2 9.4	13.0 10.0	12.5 9.0	12.6 8.9	12.3 8.7	12.7 8.9	30	13.1 8.9	12.4 8.5	13.0 9.3		13.2 8.8	12.9 9.0	12.8 9.0	13.3 9.4
15	13.3 9.2	12.6 8.7	13.1 9.5	13.3 10.0	12.2 8.8	12.4 8.7	12.1 8.5	12.9 9.0	31		12.3 8.5	13.1 9.3		12.8 8.4		13.0 9.5	
16	12.4 8.8	12.6 8.9	13.1 9.8	14.9 10.9	12.0 8.7	12.3 8.7	12.4 8.6	13.1 9.2									

Crest Stages:	Date	Time	Stage

NR — No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 332

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER AT COLLINSVILLE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec	Jan	Feb	Mar.	Apr	May	June
1	6.2 2.2	5.9 2.0	6.0 1.9	6.5 2.1	7.0 2.7	5.7 0.1	6.1 2.4	6.2 2.5	17	5.4 1.4	5.9 2.1	6.3 3.0	7.3 3.3	5.5 1.6	5.5 2.0	5.9 2.1	6.6 2.0
2	6.1 2.1	5.7 1.8	6.2 1.3	6.8 2.1	6.9 2.5	5.8 0.3	6.0 2.4	6.2 2.3	18	5.3 1.4	6.1 2.3	6.2 2.5	7.3 3.2	5.6 1.2	5.8 2.0	6.0 2.1	6.6 2.0
3	5.8 2.2	5.8 2.1	6.3 1.2	6.9 2.2	6.7 2.4	6.1 0.8	6.0 2.5	6.3 2.0	19	5.7 1.6	6.4 2.8	6.4 2.3	7.2 3.0	5.3 0.7	5.8 2.1	6.0 1.9	7.0 2.0
4	5.5 2.1	6.3 2.3	6.6 2.2	7.0 2.2	6.6 2.4	6.2 1.9	5.9 2.2	6.3 1.9	20	5.9 2.2	6.5 2.5	6.6 2.3	7.6 3.1	5.6 0.6	5.9 2.4	6.3 1.8	7.1 1.9
5	5.6 2.1	6.7 2.7	8.0 3.3	7.1 2.2	6.7 2.4	6.1 1.2	5.9 2.0	6.3 1.9	21	6.0 2.3	6.5 2.3	6.8 2.2	7.9 3.4	6.2 0.6	6.2 2.4	6.5 1.7	7.1 1.9
6	5.9 2.1	6.8 2.6	7.8 2.7	7.2 2.5	6.9 0.8	6.3 1.5	5.9 1.9	6.4 1.8	22	6.3 2.3	6.7 2.3	6.8 2.1	7.7 3.0	6.4 1.0	6.3 2.2	7.0 1.9	7.1 2.0
7	6.2 2.3	6.9 2.4	7.6 2.6	7.1 2.5	6.7 0.8	6.3 2.1	6.1 1.7	6.4 1.7	23	6.4 2.3	6.7 2.1	6.8 2.1	7.4 2.8	6.4 0.9	6.6 2.1	7.1 1.8	6.8 1.9
8	6.5 2.4	7.3 2.4	7.8 2.9	6.9 2.5	6.5 0.8	6.4 2.2	6.2 1.7	6.3 1.7	24	6.6 2.2	6.7 2.0	7.1 2.3	7.2 2.9	6.2 0.6	7.0 2.5	6.9 1.8	6.5 2.1
9	7.0 2.6	7.3 2.1	7.8 2.8	6.8 2.7	6.2 0.8	6.4 2.2	6.3 1.9	6.2 1.6	25	6.7 2.2	6.8 2.0	7.2 2.4	6.9 2.8	6.1 0.5	7.0 2.1	6.9 1.9	6.2 2.1
10	7.0 2.2	7.0 1.8	7.4 2.8	6.8 2.8	6.0 1.2	6.3 2.1	6.2 1.9	6.0 1.6	26	6.9 2.3	7.0 2.5	6.7 2.2	7.0 3.1	6.3 0.4	6.8 2.0	6.4 1.7	6.0 2.2
11	7.1 2.0	7.0 1.9	7.3 2.9	6.6 2.9	6.0 1.4	6.1 1.9	6.2 1.9	5.8 1.7	27	6.9 2.2	6.8 2.1	6.5 2.3	7.2 2.9	6.3 0.4	6.3 1.8	6.1 1.6	5.9 2.2
12	7.0 1.8	7.2 2.2	6.8 2.9	6.5 2.9	6.0 1.3	6.0 1.9	6.4 2.4	5.6 1.8	28	6.6 2.0	6.5 2.1	6.2 2.3	7.2 2.8	6.4 0.4	5.9 1.7	5.5 1.5	6.0 2.4
13	6.9 2.0	6.9 2.1	6.4 2.7	6.2 2.7	6.2 1.3	5.9 1.9	6.1 1.7	5.8 1.9	29	6.5 2.0	6.1 1.8	6.1 2.1		6.4 0.4	5.8 1.9	5.6 1.6	6.2 2.5
14	7.1 2.0	6.4 2.1	6.4 2.8	6.3 3.0	5.8 1.1	5.8 2.0	5.5 1.8	5.9 2.0	30	6.3 2.0	5.7 1.7	6.2 2.4		6.4 0.5	6.0 2.3	6.0 2.1	6.4 2.4
15	6.6 2.3	5.8 2.0	6.3 2.9	6.6 3.5	5.5 1.2	5.5 1.8	5.3 1.6	6.1 2.2	31		5.6 1.7	6.3 2.4		5.9 0.4		6.1 2.6	
16	5.6 1.7	5.9 1.9	6.3 3.1	8.1 4.1	5.2 1.2	5.5 1.9	5.7 1.6	6.3 2.3									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 333

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SUISUN BAY AT BENICIA ARSENAL

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec.	Jan	Feb	Mar.	Apr	May	June
1	3.1 -2.0	2.9 -2.3	3.2 -2.2	3.4 -2.4	3.8 -1.9	2.7 -2.7	3.1 -1.9	3.2 -1.6	17	2.5 -2.6	3.1 -2.0	3.1 -1.1	4.1 -0.7	2.3 -1.6	2.6 -2.1	2.9 -2.0	3.8 -2.3
2	3.0 -1.9	2.8 -2.0	3.3 -1.6	3.6 -2.6	3.7 -2.0	2.9 -2.5	3.0 -1.8	3.2 -2.0	18	2.5 -2.6	3.2 -1.3	3.0 -1.7	4.0 -1.2	2.3 -2.1	2.9 -2.0	3.0 -1.9	4.1 -2.4
3	2.7 -1.9	2.9 -2.0	3.5 -1.8	3.8 -2.6	3.5 -2.2	3.1 -2.1	3.0 -1.7	3.3 -2.2	19	2.8 -2.1	3.5 -1.0	3.2 -2.0	3.9 -1.9	2.2 -2.5	3.0 -2.1	3.4 -2.3	4.1 -2.6
4	2.5 -2.0	3.5 -1.6	3.9 -2.0	4.0 -2.6	3.5 -2.4	3.2 -1.8	3.0 -2.1	3.3 -2.4	20	3.1 -1.5	3.6 -1.5	3.5 -2.2	4.3 -1.9	2.6 -2.5	3.3 -1.8	3.7 -2.6	4.1 -2.7
5	2.6 -2.0	3.8 -1.2	5.4 -0.6	4.1 -2.6	3.7 -2.4	3.2 -1.7	3.0 -2.4	3.4 -2.5	21	3.2 -1.6	3.6 -1.8	3.7 -2.4	4.6 -1.7	3.1 -2.5	3.3 -2.0	4.1 -2.7	4.2 -2.7
6	3.0 -2.0	3.9 -1.6	5.0 -2.0	4.2 -2.3	3.9 -2.3	3.4 -1.5	3.0 -2.5	3.3 -2.5	22	3.4 -1.8	3.8 -1.9	3.8 -2.6	4.4 -2.0	3.3 -2.1	3.5 -2.4	4.1 -2.7	4.2 -2.6
7	3.4 -1.7	4.1 -2.0	4.9 -2.0	4.2 -2.2	3.8 -2.2	3.4 -1.6	3.2 -2.5	3.3 -2.6	23	3.6 -1.9	3.8 -2.3	3.8 -2.6	4.2 -2.2	3.4 -2.1	3.8 -2.7	4.2 -2.7	3.9 -2.6
8	3.7 -1.8	4.5 -2.1	5.0 -1.8	3.9 -2.1	3.6 -2.2	3.5 -1.9	3.2 -2.5	3.2 -2.6	24	3.7 -2.1	3.8 -2.3	4.2 -2.3	3.9 -2.1	3.2 -2.4	4.3 -2.4	4.0 -2.8	3.5 -2.4
9	4.3 -1.8	4.5 -2.6	5.0 -2.0	3.9 -1.8	3.3 -2.1	3.4 -1.9	3.2 -2.6	3.1 -2.7	25	3.8 -2.1	3.9 -2.4	4.2 -2.3	3.7 -1.9	3.2 -2.5	4.2 -2.6	3.9 -2.8	3.0 -2.3
10	4.2 -2.5	4.2 -2.7	4.5 -2.2	3.8 -1.3	3.0 -1.9	3.3 -2.2	3.1 -2.6	2.8 -2.6	26	4.0 -2.1	4.1 -1.8	3.6 -2.6	3.9 -1.5	3.5 -2.6	4.0 -2.7	3.4 -2.7	3.0 -2.0
11	4.3 -2.7	4.2 -2.7	4.3 -2.0	3.6 -1.2	3.1 -1.7	3.1 -2.3	3.1 -2.4	2.7 -2.5	27	3.9 -2.2	3.9 -2.4	3.4 -2.3	4.0 -1.6	3.4 -2.7	3.4 -2.9	2.9 -2.7	2.9 -1.7
12	4.2 -2.8	4.4 -2.5	3.8 -2.1	3.5 -1.1	3.0 -1.8	3.0 -2.3	3.2 -2.1	2.5 -2.2	28	3.6 -2.3	3.5 -2.6	3.1 -2.4	4.0 -1.8	3.5 -2.8	2.9 -2.8	2.5 -2.7	3.1 -1.3
13	4.1 -2.7	4.0 -2.5	3.3 -1.9	3.2 -1.0	3.1 -1.8	2.8 -2.2	2.9 -2.3	2.7 -2.1	29	3.5 -2.3	3.1 -2.7	3.1 -1.9		3.4 -2.7	2.8 -2.5	2.7 -2.4	3.3 -1.3
14	4.0 -2.5	3.4 -2.4	3.3 -1.4	3.2 -0.5	2.7 -2.0	2.7 -2.0	2.3 -2.4	3.0 -1.9	30	3.3 -2.3	2.6 -2.6	3.2 -1.7		3.6 -2.6	3.1 -2.0	3.0 -1.6	3.4 -1.5
15	3.7 -2.7	3.0 -2.3	3.2 -0.8	3.4 -0.4	2.4 -2.0	2.4 -2.1	2.3 -2.5	3.2 -1.6	31		2.7 -2.2	3.3 -2.0		2.9 -2.8		3.0 -1.3	
16	2.6 -2.8	3.0 -2.3	3.2 -0.8	5.0 0.0	2.2 -2.0	2.5 -2.1	2.6 -2.3	3.4 -1.9									

Crest Stages.	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 334

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	58.6	58.6	59.0	NR	60.0	59.2	60.1	59.7	17	58.6	58.7	60.3	60.1	59.2	59.4	59.6	59.2
2	58.6	58.5	59.1	NR	59.8	59.2	59.9	59.6	18	58.6	58.7	60.1	60.8	59.2	59.2	59.7	59.1
3	58.6	58.5	59.0	NR	59.8	59.2	59.9	59.7	19	58.6	58.7	NR	61.4	59.2	59.2	59.7	59.1
4	58.6	58.6	59.0	NR	59.6	59.3	59.8	59.6	20	58.5	58.7	NR	61.4	59.2	59.2	59.7	59.1
5	58.7	58.5	59.0	NR	59.5	59.4	59.7	59.6	21	58.4	58.8	NR	61.4	59.2	59.3	59.7	59.0
6	58.7	58.5	59.1	NR	59.5	59.5	59.6	59.4	22	58.4	58.8	NR	61.3	59.1	59.3	59.6	59.0
7	58.6	58.5	59.0	NR	59.4	59.4	59.6	59.4	23	58.4	58.9	NR	61.0	59.1	59.2	59.7	59.0
8	58.6	58.6	59.2	NR	59.4	59.4	59.5	59.6	24	58.6	58.9	NR	60.8	59.2	59.2	59.6	59.0
9	58.6	58.7	59.1	NR	59.3	59.3	59.5	59.6	25	58.6	58.8	NR	60.6	59.3	59.4	59.7	58.9
10	58.6	58.6	59.1	59.4	59.4	59.3	59.5	59.5	26	58.4	58.9	NR	60.4	59.3	59.8	59.6	58.9
11	58.6	58.6	59.3	59.5	59.4	59.2	59.6	59.4	27	58.4	59.0	NR	60.2	59.3	61.6	59.6	58.9
12	58.6	58.7	59.6	59.5	59.3	59.2	59.5	59.3	28	58.4	59.2	NR	60.0	59.3	62.1	59.6	58.9
13	58.6	58.6	59.8	59.9	59.2	59.3	59.4	59.2	29	58.4	59.1	NR		59.4	61.3	59.7	58.9
14	58.5	58.6	60.4	60.7	59.1	59.4	59.4	59.2	30	58.4	59.1	NR		59.3	60.6	59.8	59.0
15	58.5	58.6	60.6	60.5	59.1	59.4	59.5	59.2	31		59.0	NR		59.2		59.8	
16	58.5	58.7	60.5	60.3	59.1	59.3	59.6	59.2									

Crest Stages:						
Date	12-28-58	1-15-59	2-14-59	2-19-59	4-28-59	6- 9-59
Time	6:00 AM	6:00 PM	3:00 PM	10:00 PM	5:00 AM	10:00 AM
Stage	59.3	60.7	60.7	61.5	62.3	59.7

E-Estimated NR-No Record

TABLE 335

DAILY MEAN GAGE HEIGHT
MERCED RIVER BELOW SNELLING

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1		5.3	5.4	5.2	5.4	5.8	5.4	5.6	17		5.6	5.3	5.7	5.6	5.1	5.7	5.7
2		5.7	5.3	5.2	5.4	5.8	5.2	5.7	18		5.6	5.3	5.5	5.6	5.0	5.7	5.7
3		6.3	5.3	5.2	5.4	5.6	5.2	5.7	19		5.6	5.3	5.6	5.6	5.0	5.7	5.6
4		6.3	5.3	5.2	5.4	5.6	5.2	5.7	20		5.6	5.3	5.6	5.6	5.2	5.7	5.7
5		5.2	5.5	5.2	5.4	5.6	5.0	5.7	21		5.6	5.3	5.5	5.6	5.5	5.7	5.5
6		5.1	5.5	5.2	5.4	5.6	5.0	5.6	22		5.6	5.3	5.6	5.6	5.7	5.7	5.6
7		5.1	5.4	5.2	5.3	5.6	5.0	5.5	23		5.6	5.4	5.5	6.3	5.7	5.7	5.7
8		5.2	5.4	5.2	5.3	5.5	5.2	5.5	24		5.6	5.3	5.5	6.3	5.7	5.7	5.6
9		5.2	5.4	5.3	5.4	5.5	5.7	5.6	25		5.7	5.4	5.5	6.1	5.6	5.8	5.7
10		5.4	5.7	5.4	5.4	5.4	5.6	5.7	26	5.2	5.7	5.4	5.5	5.9	5.6	5.8	5.8
11		5.6	5.6	5.7	5.9	5.3	5.7	5.7	27	5.3	5.7	5.4	5.4	6.0	5.6	5.7	5.7
12		5.6	5.5	5.6	5.7	5.3	5.6	5.7	28	5.3	5.7	5.4	5.4	6.0	5.6	5.7	5.6
13		5.7	5.4	5.5	5.8	5.3	5.5	5.8	29	5.3	5.7	5.4		6.0	5.6	5.8	5.6
14		5.7	5.3	5.4	5.8	[illegible]	5.6	5.8	30	5.3	5.7	5.4		5.9	5.5	5.7	5.7
15		5.6	5.3	5.5	5.6	[illegible]	5.8	5.7	31		5.7	5.3		5.9		5.7	
16		5.6	5.3	5.8	5.6	5.1	5.7	5.7									

Crest Stages:								
Date	12- 3-58	1-10-59	2-16-59	3-11-59	3-13-59	3-23-59	4-22-59	4-26-59
Time	10:30 AM	2:00 PM	8:30 PM	8:45 PM	3:45 PM	8:30 PM	1:00 AM	12:30 PM
Stage	6.6	6.2	6.1	6.3	6.1	6.4	6.0	6.2

E-Estimated NR-No Record

TABLE 336

DAILY MEAN GAGE HEIGHT
MERCED RIVER AT CRESSEY

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan	Feb.	Mar	Apr	May	June
1	0.3	0.4	0.7	0.5	0.6	0.8	0.4	0.2	17	0.4	0.6	0.6	1.8	0.6	0.2	0.4	0.1
2	0.3	0.4	0.6	0.5	0.6	0.8	0.4	0.2	18	0.4	0.6	0.6	1.2	0.6	0.1	0.4	0.0
3	0.3	0.5	0.6	0.5	0.5	0.6	0.4	0.2	19	0.4	0.6	0.6	1.0	0.6	0.1	0.3	0.0
4	0.3	1.2	0.5	0.5	0.5	0.6	0.3	0.2	20	0.4	0.6	0.6	0.9	0.6	0.1	0.3	0.0
5	0.3	1.2	0.6	0.5	0.5	0.5	0.3	0.2	21	0.4	0.7	0.5	0.9	0.6	0.1	0.3	0.1
6	0.3	0.7	0.7	0.4	0.5	0.5	0.3	0.2	22	0.4	0.7	0.5	0.8	0.6	0.1	0.3	0.1
7	0.3	0.6	0.8	0.4	0.5	0.5	0.2	0.2	23	0.4	0.7	0.5	0.8	0.6	0.2	0.3	0.0
8	0.3	0.5	0.6	0.4	0.5	0.4	0.2	0.1	24	0.4	0.7	0.6	0.8	1.0	0.3	0.4	0.0
9	0.3	0.5	0.6	0.4	0.5	0.4	0.2	0.0	25	0.4	0.7	0.6	0.7	1.1	0.3	0.4	0.0
10	0.3	0.4	0.8	0.5	0.5	0.4	0.2	0.0	26	0.4	0.7	0.6	0.7	1.0	0.4	0.3	0.0
11	0.3	0.4	1.3	0.6	0.5	0.3	0.2	0.0	27	0.4	0.7	0.6	0.6	0.8	0.5	0.3	0.1
12	0.3	0.6	1.1	1.0	0.7	0.3	0.2	0.0	28	0.4	0.8	0.6	0.6	0.8	0.5	0.3	0.2
13	0.3	0.6	0.9	1.0	0.7	0.2	0.2	0.0	29	0.5	0.7	0.5		0.8	0.4	0.2	0.1
14	0.3	0.6	0.8	0.8	0.7	0.2	0.2	0.0	30	0.4	0.7	0.5		0.9	0.4	0.3	0.1
15	0.4	0.7	0.7	0.7	0.7	0.3	0.2	0.2	31		0.7	0.5		0.8		0.3	
16	0.3	0.7	0.6	0.8	0.6	0.3	0.3	0.2									

Crest Stages:								
Date	12- 5-58	12-28-58	1- 7-59	1-11-59	2-12-59	2-17-59	3-12-59	3-25-59
Time	12:30 PM	7:00 PM	1:00 AM	12:00 Noon	5:00 PM	6:30 AM	7:30 PM	8:00 AM
Stage	1.4	0.8	0.8	1.6	1.5	2.6	0.8	1.2

E-Estimated NR-No Record

TABLE 337

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER NEAR NEWMAN

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan	Feb.	Mar.	Apr	May	June
1	1.8	1.8	2.0	2.4	3.1	2.4	2.7	2.1	17	1.7	1.8	3.3	3.2	2.1	1.8	2.2	1.6
2	1.8	1.8	2.1	2.4	3.0	2.3	2.6	1.9	18	1.7	1.8	3.2	3.7	2.1	1.7	2.2	1.5
3	1.8	1.7	2.0	2.4	2.9	2.3	2.6	1.8	19	1.6	1.8	3.1	4.2	2.1	1.7	2.2	1.4
4	1.8	1.8	2.0	2.3	2.7	2.2	2.4	1.7	20	1.6	1.8	3.0	4.2	2.0	1.7	2.2	1.3
5	1.7	1.9	2.0	2.3	2.6	2.1	2.3	1.7	21	1.6	1.8	2.9	4.2	2.0	1.6	2.2	1.4
6	1.7	2.1	2.2	2.2	2.5	2.1	2.2	1.7	22	1.5	1.9	2.8	4.2	2.0	1.5	2.2	1.3
7	1.7	1.9	2.1	2.2	2.4	2.1	2.1	1.6	23	1.6	1.9	2.8	4.0	2.1	1.5	2.1	1.3
8	1.7	1.8	2.2	2.2	2.3	2.0	1.9	1.8	24	1.6	1.9	2.8	3.8	2.2	1.5	2.1	1.2
9	1.7	1.8	2.3	2.2	2.2	1.9	1.9	1.8	25	1.7	1.8	2.7	3.7	2.3	1.7	2.2	1.1
10	1.7	1.7	2.3	2.2	2.2	1.8	2.0	1.7	26	1.6	1.9	2.7	3.5	2.5	2.5	2.0	1.1
11	1.6	1.7	2.4	2.3	2.3	1.8	2.0	1.7	27	1.6	1.9	2.6	3.4	2.4	3.5	2.0	1.2
12	1.6	1.7	2.9	2.4	2.2	1.8	1.9	1.6	28	1.7	2.1	2.6	3.2	2.3	4.0	2.0	1.2
13	1.6	1.7	3.0	2.7	2.1	1.9	1.8	1.5	29	1.7	2.0	2.6		2.3	3.6	2.0	1.3
14	1.6	1.7	3.4	3.3	2.1	1.9	1.8	1.5	30	1.7	2.0	2.6		2.4	3.0	2.0	1.3
15	1.6	1.7	3.6	3.3	2.1	1.8	1.9	1.6	31		2.0	2.5		2.5		2.2	
16	1.6	1.8	3.6	3.2	2.2	1.8	2.1	1.6									

Crest Stages:				
Date	1-15-59	1-30-59	2-19-59	4-28-59
Time	9:00 PM	12:30 AM	11:00 AM	9:00 AM
Stage	3.6	3.0	4.3	4.1

E-Estimated NR-No Record

TABLE 338

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT PATTERSON BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	37.1	36.8	36.9	37.4	38.1	37.2	37.3	36.8	17	36.9	36.6	38.2	39.8	37.1	36.3	36.8	35.8
2	37.0	36.8	37.0	37.3	38.0	36.9	37.4	36.6	18	36.9	36.6	38.0	39.0	36.8	36.2	36.9	35.7
3	37.0	36.8	37.0	37.4	37.8	36.8	37.2	36.3	19	36.9	36.6	37.9	39.4	36.6	36.1	36.8	35.6
4	37.0	36.8	36.9	37.2	37.7	36.6	37.1	36.1	20	36.9	36.6	37.9	39.1	36.5	36.2	36.6	35.7
5	37.0	36.8	37.0	37.2	37.6	36.6	37.0	36.0	21	36.9	36.6	37.8	39.5	36.4	36.1	36.6	35.8
6	37.0	36.9	37.1	37.1	37.5	36.6	36.7	35.9	22	36.8	36.7	37.7	40.2	36.5	35.9	36.5	35.9
7	36.9	37.0	37.1	37.0	37.4	36.6	36.6	36.0	23	36.8	36.7	37.7	39.4	36.7	35.9	36.5	35.7
8	36.9	36.9	37.1	37.1	37.3	36.5	36.6	36.2	24	36.7	36.7	37.6	39.0	36.9	35.9	36.5	35.4
9	36.9	36.9	37.1	37.1	37.2	36.4	36.5	36.2	25	36.8	36.7	37.6	38.7	37.1	36.1	36.6	35.5
10	36.9	36.8	37.2	37.1	37.1	36.3	36.6	36.1	26	36.8	36.7	37.6	38.5	37.2	37.0	36.5	35.5
11	36.9	36.7	37.3	37.3	37.1	36.4	36.6	36.1	27	36.8	36.7	37.5	38.4	37.2	37.6	36.5	35.5
12	36.9	36.7	37.4	37.5	37.1	36.4	36.5	36.0	28	36.8	36.8	37.5	38.2	37.1	38.1	36.6	35.8
13	36.9	36.7	37.6	37.4	37.0	36.5	36.4	36.1	29	36.8	36.8	37.4		37.2	38.0	36.6	35.9
14	36.9	36.7	37.8	37.7	37.0	36.3	36.5	36.2	30	36.7	36.9	37.5		37.4	37.6	36.6	35.8
15	36.9	36.7	38.1	37.9	36.9	36.4	36.3	36.1	31		36.9	37.4		37.4		36.8	
16	36.8	36.6	38.2	38.9	36.9	36.3	36.4	35.8									

Crest Stages:								
	Date	1-16-59	1-30-59	2-12-59	2-17-59	2-19-59	2-22-59	3-31-59	4-28-59
	Time	12:30 PM	1:30 PM	5:30 AM	1:30 AM	2:30 AM	3:30 AM	9:30 AM	9:30 PM
	Stage	38.3	37.6	37.5	40.8	39.4	40.5	37.5	38.2

E - Estimated NR - No Record

TABLE 339

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT GRAYSON

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	28.4	28.3	28.0	28.6	29.6	28.6	28.6	NR	17	28.4	27.6	29.6	31.8	28.3	27.5	NR	27.1
2	28.4	28.3	28.1	28.6	29.4	28.3	28.7	NR	18	28.4	27.6	29.4	30.6	28.1	27.5	NR	27.1
3	28.3	28.2	28.0	28.6	29.3	28.2	28.6	NR	19	28.5	27.6	29.3	31.1	27.9	27.4	NR	27.0
4	28.3	28.1	28.0	28.5	29.2	27.9	28.5	NR	20	28.5	27.5	29.2	31.2	27.8	27.4	NR	27.0
5	28.3	28.0	28.0	28.4	29.0	27.9	28.3	NR	21	28.5	27.5	29.1	31.7	27.7	27.3	NR	27.1
6	28.3	28.1	28.2	28.3	28.9	28.0	28.0	NR	22	28.4	27.6	29.0	32.5	27.7	27.2	NR	27.2
7	28.3	28.2	28.2	28.2	28.7	27.9	27.9	NR	23	28.3	27.6	29.0	31.7	27.9	27.1	NR	27.2
8	28.2	28.1	28.2	28.3	28.7	27.8	27.9	NR	24	28.2	27.7	28.9	31.1	28.1	27.2	NR	26.9
9	28.3	28.0	28.2	28.3	28.5	27.8	27.8	NR	25	28.3	27.7	28.9	30.7	28.3	27.2	NR	26.9
10	28.3	28.0	28.5	28.3	28.4	27.6	27.8	27.4	26	28.4	27.7	28.8	30.2	28.4	28.0	NR	26.9
11	28.3	27.9	28.5	28.5	28.4	27.7	27.9	27.4	27	28.4	27.8	28.8	30.0	28.4	28.8	NR	26.9
12	28.3	27.8	28.5	28.8	28.4	27.6	27.7	27.3	28	28.3	27.8	28.8	29.8	28.4	29.2	NR	27.1
13	28.3	27.8	28.8	28.8	28.3	27.7	27.6	27.3	29	28.3	27.8	28.7		28.5	29.3	NR	27.3
14	28.3	27.8	29.0	28.9	28.2	27.6	27.7	27.4	30	28.3	27.9	28.8		28.8	29.0	NR	27.3
15	28.3	27.8	29.3	29.2	28.1	27.6	NR	27.4	31		28.0	28.7		28.8		NR	
16	28.3	27.6	29.6	30.5	28.1	27.5	NR	27.1									

Crest Stages.						
	Date	1-16-59	2-17-59	2-22-59	3-30-59	4-29-59
	Time	11:00 PM	6:00 AM	8:00 AM	6:00 PM	6:00 AM
	Stage	29.6	32.2	32.7	28.9	29.4

E - Estimated NR - No Record

TABLE 340

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT LA GRANGE BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	171.2	171.5	168.4	168.7	168.8	167.3	167.2	167.1	17	171.4	169.5	169.3	169.6	167.4	167.3	167.2	167.1
2	171.1	171.4	168.6	169.3	169.4	167.3	167.2	167.1	18	171.4	169.5	168.7	170.1	167.4	167.3	167.2	167.1
3	171.1	170.8	168.8	169.2	169.5	167.3	167.2	167.1	19	171.4	169.5	169.5	171.4	167.3	167.3	167.2	167.1
4	171.2	170.8	168.2	169.3	169.0	167.3	167.2	167.2	20	171.4	169.3	169.3	171.4	167.3	167.3	167.2	167.1
5	171.2	170.8	169.1	169.2	169.0	167.3	167.2	167.2	21	171.4	169.3	169.3	171.4	167.4	167.3	167.2	167.1
6	171.2	170.3	168.8	169.2	169.3	167.3	167.2	167.1	22	171.4	169.4	169.4	171.4	167.3	167.3	167.2	167.1
7	171.2	170.2	169.2	169.1	168.9	167.3	167.2	167.1	23	171.4	169.4	169.2	171.4	167.3	167.3	167.2	167.1
8	171.2	170.2	169.3	168.8	168.9	167.3	167.2	167.1	24	171.4	169.3	169.0	171.2	167.3	167.3	167.2	167.1
9	171.2	170.2	169.1	169.7	169.2	167.3	167.6	167.1	25	171.5	169.3	168.5	169.9	167.4	167.3	167.2	167.1
10	171.2	170.2	168.8	169.6	169.1	167.3	167.2	167.1	26	171.5	169.3	169.2	170.0	167.3	167.3	167.2	167.1
11	171.3	170.2	168.2	169.6	169.3	167.3	167.2	167.1	27	171.4	169.3	169.1	169.9	167.4	167.2	167.1	167.1
12	171.3	170.2	168.9	169.0	169.2	167.3	167.3	167.1	28	171.4	169.3	168.9	169.3	167.3	167.2	167.1	167.1
13	171.3	170.0	169.2	168.9	169.1	167.3	167.2	167.1	29	171.5	169.5	169.2		167.3	167.2	167.1	167.1
14	171.3	169.6	169.3	168.9	168.2	167.3	167.2	167.1	30	171.5	169.5	169.2		167.3	167.2	167.1	167.1
15	171.3	169.8	169.5	168.9	167.4	167.3	167.2	167.1	31		169.6	168.9		167.3		167.1	
16	171.4	169.5	169.4	169.3	167.3	167.3	167.2	167.1									

Crest Stages:			
	Date	11-30-58	2-24-59
	Time	6:00 AM	6:00 AM
	Stage	171.6	171.6

E-Estimated NR-No Record

TABLE 341

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	111.5	111.8	109.6	109.5	109.8	108.2	108.2	108.1	17	111.7	110.0	109.9	110.1	108.3	108.2	108.1	108.0
2	111.5	111.8	109.2	109.6	109.7	108.2	108.2	108.1	18	111.8	110.1	109.6	110.6	108.3	108.2	108.1	108.0
3	111.5	111.4	109.6	109.9	110.1	108.2	108.2	108.1	19	111.8	110.1	109.9	111.7	108.3	108.2	108.1	108.0
4	111.6	111.3	109.0	109.9	109.9	108.2	108.2	108.1	20	111.8	110.0	110.0	111.7	108.2	108.2	108.1	108.0
5	111.6	111.3	109.6	109.8	109.6	108.2	108.2	108.1	21	111.8	109.9	110.0	111.7	108.2	108.2	108.1	108.0
6	111.6	110.8	109.8	109.9	109.8	108.2	108.2	108.0	22	111.8	110.0	110.0	111.7	108.2	108.2	108.1	108.1
7	111.6	110.7	109.7	109.8	109.7	108.2	108.2	108.0	23	111.8	110.0	109.9	111.7	108.2	108.2	108.1	108.1
8	111.6	110.7	109.9	109.7	109.6	108.2	108.1	108.0	24	111.8	110.0	109.8	111.6	108.2	108.2	108.1	108.0
9	111.6	110.7	109.8	110.0	109.7	108.2	108.3	108.0	25	111.8	110.0	109.5	110.5	108.2	108.2	108.1	108.1
10	111.6	110.7	109.8	110.2	109.7	108.2	108.3	108.0	26	111.8	109.9	109.6	110.6	108.3	108.2	108.1	108.1
11	111.7	110.7	109.2	110.3	109.8	108.2	108.2	108.0	27	111.8	110.0	109.8	110.5	108.2	108.2	108.1	108.1
12	111.7	110.7	109.4	109.9	109.8	108.2	108.1	108.0	28	111.8	109.9	109.7	110.1	108.2	108.2	108.1	108.0
13	111.7	110.6	109.8	109.6	109.7	108.2	108.1	108.0	29	111.8	110.1	109.6		108.2	108.2	108.1	108.0
14	111.7	110.2	109.9	109.6	109.5	108.2	108.2	108.0	30	111.8	110.1	109.8		108.2	108.2	108.1	108.1
15	111.7	110.3	110.0	109.6	108.5	108.2	108.2	108.0	31		110.1	109.8		108.2		108.1	
16	111.7	110.1	110.0	109.8	108.3	108.2	108.1	108.0									

Crest Stages:				
	Date	11-25-58	11-29-58	2-22-59
	Time	9:30 AM	9:30 AM	10:15 AM
	Stage	111.9	111.9	111.8

E-Estimated NR-No Record

TABLE 342

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT HICKMAN BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	75.8E	76.4	74.2	73.8	74.3	72.3	72.3	72.2	17	76.4	74.4	74.3	74.3	72.4	72.3	72.3	72.2
2	75.8E	76.4	73.0	73.6	73.8	72.3	72.3	72.2	18	76.4	74.4	74.0	75.0	72.4	72.3	72.3	72.2
3	75.8E	76.0	74.0	74.2	74.5	72.3	72.3	72.2	19	76.4	74.5	74.0	76.3	72.4	72.3	72.2	72.2
4	75.9E	75.9	73.2	74.2	74.4	72.3	72.3	72.2	20	76.4	74.4	74.3	76.3	72.4	72.3	72.2	72.2
5	75.9E	75.9	73.4	74.1	73.8	72.3	72.3	72.2	21	76.5	74.2	74.3	76.4	72.4	72.3	72.3	72.2
6	76.2	75.4	74.3	74.2	74.0	72.3	72.3	72.2	22	76.4	74.2	74.3	76.4	72.4	72.3	72.2	72.2
7	76.2	75.2	73.7	74.1	74.0	72.3	72.3	72.2	23	76.4	74.3	74.3	76.3	72.4	72.3	72.2	72.2
8	76.2	75.1	74.1	74.0	73.8	72.3	72.3	72.2	24	76.4	74.2	74.0	76.4	72.4	72.3	72.2	72.2
9	76.2	75.2	74.2	73.9	73.8	72.4	72.3	72.2	25	76.5	74.2	73.8	75.1	72.4	72.3	72.3	72.2
10	76.2	75.2	74.1	74.6	74.0	72.3	72.4	72.2	26	76.5	74.2	73.5	75.1	72.4	72.4	72.2	72.2
11	76.3	75.2	73.4	74.7	74.1	72.3	72.3	72.2	27	76.4	74.2	74.2	75.0	72.4	72.4	72.2	72.2
12	76.3	75.2	73.2	74.4	74.1	72.3	72.3	72.2	28	76.4	74.2	74.0	74.6	72.4	72.3	72.3	72.2
13	76.3	75.2	74.2	73.8	74.0	72.3	72.3	72.2	29	76.5	74.3	73.8		72.4	72.3	72.2	72.2
14	76.3	74.6	74.2	73.8	73.9	72.3	72.3	72.2	30	76.4	74.4	74.1		72.4	72.3	72.2	72.2
15	76.4	74.7	74.3	73.8	72.7	72.3	72.3	72.2	31		74.5	74.0		72.3		72.2	
16	76.4	74.5	74.3	74.0	72.5	72.3	72.3	72.2									

Crest Stages:			
	Date	11-25-58	2-21-59
	Time	12:30 PM	2:00 PM
	Stage	76.5	76.4

E-Estimated NR-No Record

TABLE 343

DAILY MEAN GAGE HEIGHT
ORY CREEK NEAR MODESTO

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	68.1	67.9	67.8	67.9	68.3	68.0	68.3	68.4	17	67.9	67.8	68.3	75.8	68.2	68.1	68.3	68.1
2	68.1	67.9	67.8	67.9	68.2	68.0	68.5	68.3	18	67.9	67.8	68.2	73.0	68.2	68.2	68.4	68.1
3	68.1	67.9	67.8	67.8	68.1	68.0	68.4	68.2	19	67.9	67.8	68.2	73.7	68.2	68.2	68.3	68.1
4	68.1	67.9	67.8	67.8	68.0	67.9	68.4	68.3	20	67.8	67.8	68.1	71.5	68.4	68.4	68.2	68.2
5	68.1	67.9	67.8	67.8	68.0	68.0	68.3	68.2	21	67.9	67.8	68.1	70.4	68.4	68.3	68.3	68.0
6	68.1	67.9	67.9	67.8	68.0	68.2	68.4	68.3	22	67.9	67.8	68.0	71.4	68.6	68.3	68.3	67.9
7	68.0	67.9	68.3	67.8	67.9	68.2	68.3	68.2	23	67.9	67.8	68.0	70.3	68.6	68.3	68.3	67.9
8	68.0	67.9	68.4	67.8	67.9	68.2	68.2	68.1	24	67.9	67.8	68.0	69.3	68.7	68.2	68.3	67.9
9	68.0	67.8	68.5	67.8	67.9	68.4	68.3	68.2	25	67.9	67.8	68.0	68.9	68.5	68.2	68.5	68.0
10	68.0	67.9	68.6	67.8	67.9	68.4	68.2	68.2	26	67.9	67.8	68.0	68.6	68.5	68.8	68.5	67.9
11	67.9	67.9	74.2	69.1	67.9	68.6	68.4	68.2	27	67.9	67.8	67.9	68.5	68.7	68.8	68.4	68.0
12	68.0	67.9	70.4	72.1	67.8	68.6	68.4	68.2	28	67.9	67.8	67.9	68.4	68.5	68.3	68.4	68.0
13	68.0	67.9	69.2	71.0	67.9	68.6	68.3	68.1	29	67.9	67.8	67.9		68.4	68.1	68.3	68.0
14	68.0	67.9	69.2	69.6	68.0	68.4	68.4	68.1	30	67.9	67.8	67.9		68.2	68.2	68.3	68.0
15	68.0	67.8	68.9	68.8	67.9	68.2	68.3	68.1	31		67.8	67.9		68.1		68.3	
16	67.9	67.9	68.5	70.8	68.0	68.0	68.2	68.1									

Crest Stages:									
	Date	1-11-59	1-14-59	2-12-59	2-13-59	2-17-59	2-18-59	2-22-59	4-26-59
	Time	8:00 AM	12:00 Noon	3:00 AM	5:00 AM	5:45 AM	7:30 PM	5:00 PM	8:30 PM
	Stage	76.2	69.4	73.1	71.2	77.9	75.4	72.0	69.0

E-Estimated NR-No Record

TABLE 344

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT MODESTO

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	43.3	43.7	42.3	43.0	42.3	41.4	41.4	41.4	17	43.6	42.3	42.2	43.2	41.5	41.3	41.4	41.
2	43.3	43.6	41.8	42.9	42.0	41.4	41.4	41.3	18	43.7	42.2	42.2	42.8	41.4	41.4	41.4	41.
3	43.3	43.5	41.9	42.1	42.2	41.4	41.4	41.3	19	43.7	42.2	41.9	44.1	41.4	41.4	41.4	41.3
4	43.4	43.0	41.9	42.1	42.3	41.4	41.4	41.3	20	43.7	42.3	42.2	44.2	41.4	41.4	41.4	41.3
5	43.4	43.0	41.6	42.1	42.0	41.4	41.4	41.4	21	43.7	42.2	42.2	44.0	41.4	41.4	41.4	41.3
6	43.4	42.8	42.2	42.1	42.0	41.4	41.4	41.4	22	43.7	42.2	42.2	44.2	41.5	41.4	41.4	41.3
7	43.4	42.6	42.0	42.1	42.1	41.4	41.4	41.3	23	43.6	42.2	42.2	44.0	41.5	41.4	41.4	41.3
8	43.4	42.6	42.1	42.1	42.0	41.4	41.4	41.3	24	43.6	42.2	42.1	43.8	41.5	41.4	41.4	41.3
9	43.4	42.6	42.2	41.9	42.0	41.4	41.3	41.3	25	43.7	42.2	42.1	43.0	41.4	41.4	41.4	41.3
10	43.4	42.6	42.2	42.4	42.0	41.4	41.4	41.3	26	43.8	42.2	41.8	42.6	41.4	41.4	41.4	41.3
11	43.5	42.6	42.5	42.4	42.1	41.4	41.4	41.3	27	43.7	42.2	42.1	42.1	41.5	41.5	41.4	41.3
12	43.5	42.6	42.0	42.6	42.2	41.4	41.4	41.3	28	43.7	42.2	42.1	42.5	41.4	41.4	41.4	41.3
13	43.5	42.6	42.1	42.3	42.1	41.4	41.4	41.3	29	43.7	42.2	42.0		41.5	41.4	41.4	41.3
14	43.5	42.4	42.2	42.1	42.1	41.4	41.4	41.3	30	43.8	42.3	42.1		41.4	41.4	41.4	41.3
15	43.6	42.3	42.2	42.0	42.8	41.4	41.4	41.3	31		42.2	42.9		41.4		41.4	
16	43.6	42.4	42.3	42.2	41.6	41.4	41.4	41.3									

Crest Stages.			
	Date	2-17-59	2-19-59
	Time	10:30 AM	3:00 PM
	Stage	43.9	44.5

E - Estimated NR - No Record

TABLE 345

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT TUOLUMNE CITY

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan	Feb.	Mar	Apr	May	June
1	32.6	32.9	29.9	29.1	30.0	27.3	27.2	27.1	17	32.8	30.0	29.8	31.3	27.9	27.1	27.1	26.9
2	32.6	32.9	29.2	28.8	29.4	27.3	27.2	27.0	18	32.8	29.9	29.6	31.5	27.6	27.2	27.2	26.9
3	32.5	32.8	28.7	29.1	29.5	27.3	27.2	27.0	19	32.9	29.9	29.1	32.4	27.5	27.2	27.1	[illegible]
4	32.6	32.1	29.0	29.3	29.8	27.2	27.2	27.0	20	32.9	29.9	29.5	33.3	27.5	27.2	27.1	[illegible]
5	32.6	32.0	28.4	29.3	29.4	27.2	27.1	27.0	21	33.0	29.7	29.6	33.2	27.5	27.2	27.1	26.9
6	32.7	31.9	29.2	29.3	29.1	27.3	27.2	27.0	22	32.9	29.6	29.6	33.2	27.5	27.2	27.1	26.9
7	32.7	31.2	29.3	29.3	29.4	27.2	27.2	27.0	23	32.8	29.7	29.6	33.2	27.6	27.2	27.1	26.9
8	32.7	31.0	29.3	29.3	29.1	27.2	27.1	27.0	24	32.8	29.7	29.5	32.9	27.6	27.2	27.1	26.9
9	32.6	31.0	29.6	29.0	28.9	27.3	27.1	26.9	25	32.9	29.6	29.3	32.3	27.5	27.2	27.1	26.9
10	32.6	31.0	29.6	29.6	29.1	27.3	27.1	27.0	26	33.0	29.6	28.8	30.9	27.4	27.3	27.1	26.9
11	32.6	31.0	30.2	30.1	29.2	27.3	27.3	27.0	27	32.9	29.6	29.0	30.8	27.5	27.4	27.1	26.9
12	32.7	31.0	29.6	30.7	29.3	27.3	27.2	27.0	28	32.8	29.6	29.2	30.6	27.4	27.4	27.1	26.9
13	32.8	31.0	29.2	30.0	29.3	27.4	27.1	27.0	29	32.9	29.6	29.0		27.6	27.2	27.1	27.0
14	32.8	30.7	29.6	29.5	29.2	27.3	27.1	26.9	30	32.9	29.8	29.1		27.4	27.2	27.0	26.9
15	32.8	30.1	29.7	29.2	28.8	27.2	27.2	27.0	31		29.8	29.2		27.4		27.1	
16	32.8	30.3	29.8	29.3	28.0	27.2	27.1	26.9									

Crest Stages:							
	Date	11-26-58	2-12-59	2-17-59	2-20-59	3- 4-59	3-13-59
	Time	6:00 AM	4:00 PM	6:00 PM	2:00 AM	6:00 PM	9:00 PM
	Stage	33.0	31.3	32.4	33.3	30.2	29.6

E - Estimated NR - No Record

TABLE 346

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	22.2	22.4	20.3	20.1	NR	18.7	18.6	18.1	17	22.2	20.4	21.0	22.2	18.9	17.8	18.0	17.3
2	22.2	22.4	20.2	19.9	NR	18.5	18.6	18.1	18	22.3	20.2	20.8	21.3	18.7	17.8	18.2	17.3
3	22.1	22.4	19.6	19.9	20.9	18.4	18.7	17.9	19	22.4	20.2	20.6	21.6	18.4	17.8	18.2	17.3
4	22.0	22.1	19.8	20.2	21.1	18.2	18.6	17.7	20	22.4	20.2	20.5	22.4	18.4	17.8	18.0	17.3
5	22.1	21.9	19.6	20.1	21.0	18.1	18.4	17.7	21	22.4	20.1	20.6	22.5	18.4	17.8	18.0	17.3
6	22.2	21.8	19.8	20.0	20.6	18.1	18.2	17.6	22	22.4	20.0	20.6	NR	18.3	17.7	18.1	17.4
7	22.2	21.6	20.2	20.0	20.5	18.0	18.1	17.6	23	22.3	20.1	20.5	NR	18.4	17.6	18.1	17.3
8	22.2	21.4	20.0	20.0	20.4	18.0	18.0	17.7	24	22.2	20.1	20.5	NR	18.6	17.7	18.0	17.2
9	22.2	21.3	20.2	19.9	20.2	18.0	18.1	17.6	25	22.3	20.2	20.4	NR	18.8	17.7	18.1	17.0
10	22.2	21.3	20.4	20.0	20.1	18.0	18.0	17.6	26	22.4	20.1	20.3	NR	18.8	18.1	18.0	17.1
11	22.1	21.2	20.6	20.5	20.0	18.1	18.2	17.7	27	22.4	20.1	20.1	NR	18.8	18.7	17.9	17.1
12	22.2	21.2	20.7	20.9	20.0	18.1	18.2	17.6	28	22.4	20.1	20.4	NR	18.8	18.9	18.0	17.2
13	22.2	21.2	20.2	20.9	19.8	18.0	18.0	17.5	29	22.3	20.1	20.2		18.9	19.0	17.9	17.5
14	22.2	21.1	20.6	20.6	19.8	17.9	17.9	17.6	30	22.4	20.2	20.1		19.0	18.8	17.9	17.3
15	22.2	20.7	20.8	20.6	19.7	17.8	18.0	17.8	31		20.3	20.2		18.9		18.0	
16	22.2	20.7	21.0	20.8	19.2	17.8	17.9	17.5									

Crest Stages:								
Date	11- 1-58	11-21-58	12- 3-58	1-17-59	2-12-59	2-17-59	2-22-59	3- 5-59
Time	12:15 AM	3:00 PM	8:00 PM	1:00 AM	11:00 PM	9:00 PM	7:00 PM	2:00 AM
Stage	22.2	22.4	22.4	21.1	21.3	22.0	23.0E	21.2

E - Estimated NR - No Record

TABLE 347

DAILY MEAN GAGE HEIGHT
STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan	Feb.	Mar	Apr	May	June
1	2.2	3.9	2.1	1.8	5.3	1.3	1.4	1.4	17	2.4	2.3	2.0	2.0	1.5	1.5	1.4	1.4
2	2.2	4.3	2.1	1.8	5.3	1.3	1.4	1.4	18	2.7	2.3	1.5	2.0	1.6	1.5	1.4	1.3
3	2.3	4.3E	2.1	1.5	5.2	1.3	1.4	1.4	19	2.8	2.3	1.4	1.9	1.5	1.5	1.4	1.3
4	2.8	4.3E	2.1	1.3	5.2	1.3	1.4	1.4	20	2.8	2.4	1.6	1.8	1.5	1.5	1.4	1.3
5	3.0	4.3E	2.1	1.3	4.8	1.4	1.4	1.3	21	2.8	2.4	1.9	1.8	1.6	1.5	1.4	1.3
6	3.0	4.3E	2.2	1.3	4.4	1.5	1.4	1.4	22	2.8	2.5	1.8	1.9	1.6	1.6	1.4	1.3
7	2.7	4.2E	2.1	1.3	4.4	1.6	1.4	1.4	23	2.8	3.2	2.7	1.8	1.6	1.5	1.4	1.2
8	2.6	4.2E	2.5	1.5	4.4	1.6	1.4	1.4	24	2.8	3.0	3.2	2.0	1.6	1.5	1.4	1.3
9	2.1	4.2	3.3	1.6	3.9	1.6	1.5	1.4	25	3.0	2.5	3.3	4.4	1.5	1.4	1.4	1.3
10	2.1	4.2	3.2	1.7	2.8	1.6	1.5	1.4	26	3.2	2.5	3.8	5.2	1.5	1.6	1.4	1.3
11	2.1	4.2	2.6	2.4	2.4	1.6	1.5	1.4	27	3.3	2.6	3.5	4.9	1.6	1.4	1.4	1.3
12	2.1	4.2	3.2	2.8	2.2	1.6	1.4	1.5	28	3.3	2.5	2.0	5.3	1.6	1.4	1.4	1.3
13	2.2	4.3	3.4	4.2	2.1	1.6	1.4	1.4	29	3.3	2.5	1.8		1.4	1.4	1.4	1.3
14	2.2	4.2	3.3	3.0	1.6	1.6	1.4	1.4	30	3.3	2.5	1.8		1.4	1.4	1.4	1.2
15	2.2	4.1	2.3	1.9	1.5	1.4	1.4	1.4E	31		2.5	1.8		1.4		1.4	
16	2.2	2.4	2.1	2.5	1.5	1.4	1.4	1.4E									

Crest Stages:	
Date	2-26-59
Time	1:00 AM
Stage	5.3

E - Estimated NR - No Record

TABLE 348

DAILY MEAN GAGE HEIGHT
STANISLAUS RIVER AT RIVERBANK

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	74.4	75.8	74.2	73.8E	77.4	73.0	73.0	73.0	17	74.3	74.4	74.0E	74.4	73.2	73.1	73.0	72.9
2	74.4	76.4	73.9	73.8E	77.4	73.0	73.0	73.0	18	75.0	74.4	73.5E	73.8	73.2	73.0	73.0	72.9
3	74.4	76.5	73.9	73.5E	77.4	73.0	73.1	73.0	19	75.1	74.3	73.4E	73.8	73.2	73.0	73.0	72.9
4	74.9	76.5	73.9	73.4E	77.3	73.0	73.0	73.0	20	75.1	74.6	73.6E	73.5	73.1	73.0	73.0	72.9
5	75.4	76.4	73.9	73.1	77.2	73.0	73.0	72.9	21	75.1	74.5	73.9E	73.6	73.2	73.1	73.0	72.9
6	75.4	76.5	74.1	73.1	76.6	73.1	73.1	72.8	22	75.1	74.5	73.8E	73.7	73.2	73.1	73.0	72.9
7	75.2	76.5	74.1	73.1	76.6	73.1	73.0	73.0	23	75.2	75.3	74.7E	73.5	73.2	73.1	73.0	72.8
8	75.1	76.5	73.9	73.1	76.6	73.2	73.0	73.0	24	75.2	75.5	75.2E	73.4	73.3	73.0	73.0	72.8
9	74.3	76.5	75.3	73.2	76.5	73.1	73.0	73.0	25	75.2	74.9	75.3E	75.5	73.3	73.0	73.0	72.8
10	74.1	76.4	75.8	73.3	75.4	73.2	73.0	72.9	26	75.6	74.7	75.8E	77.2	73.2	73.1	73.1	72.9
11	74.0	76.5	74.9	74.0	74.7	73.1	73.0	72.9	27	75.6	74.8	75.5E	77.1	73.3	73.1	73.0	72.9
12	74.0	76.4	74.8	73.9	74.4	73.2	73.0	72.9	28	75.6	74.8	74.1E	77.2	73.2	73.0	73.0	72.9
13	74.1	76.5	75.5	76.3	74.2	73.2	73.0	72.9	29	75.7	74.8	73.9E		73.2	73.0	73.0	73.0
14	74.2	76.5	75.6	75.8	73.7	73.1	73.0	73.0	30	75.7	74.8	73.8E		73.2	73.0	73.0	72.9
15	74.3	76.5	74.4E	74.1	73.3	73.1	73.0	73.0	31		74.8	73.8E		73.1		73.0	
16	74.3	75.2	74.2E	74.2	73.2	73.1	73.0	72.9									

Crest Stages:			
	Date	2-27-59	3- 1-59
	Time	3:00 PM	11:00 AM
	Stage	77.3	77.4

E-Estimated NR-No Record

TABLE 349

DAILY MEAN GAGE HEIGHT
STANISLAUS RIVER AT RIPON

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr	May	June
1	39.1	40.9	39.5	38.3	43.5	38.0	37.8	37.6	17	39.0	40.0	39.2	39.9	38.6	37.8	37.6	37.4
2	39.0	41.6	39.5	38.3	43.6	38.0	37.8	37.5	18	39.4	39.6	38.8	39.0	38.5	37.8	37.6	37.4
3	39.0	42.1	38.8	38.2	43.6	37.9	37.8	37.5	19	39.9	39.5	38.4	38.7	38.3	37.8	37.7	37.3
4	39.2	42.2	38.8	38.1	43.6	37.8	37.9	37.5	20	40.0	39.5	38.2	38.5	38.3	37.8	37.8	37.4
5	39.7	42.0	38.8	38.0	43.6	38.0	37.8	37.5	21	40.0	39.6	38.2	38.4	38.2	37.8	37.6	37.4
6	40.3	42.0	38.9	38.0	42.9	38.0	37.7	37.4	22	40.0	39.5	38.4	38.8	38.1	37.9	37.6	37.3
7	40.2	42.2	39.0	37.9	42.5	37.9	37.7	37.4	23	40.1	39.9	38.2	38.6	38.3	37.9	37.6	37.3
8	40.0	42.1	38.9	37.9	42.5	37.9	37.7	37.6	24	40.1	40.7	39.6	38.3	38.4	37.8	37.6	37.2
9	39.7	42.2	39.6	37.9	42.5	37.9	37.7	37.5	25	40.1	40.4	40.5	38.8	38.3	37.9	37.7	37.3
10	39.2	42.2	40.8	38.0	41.6	37.8	37.8	37.4	26	40.4	39.8	40.6	42.3	38.2	37.9	37.6	37.4
11	39.0	42.2	40.7	38.2	40.7	37.9	37.7	37.4	27	40.7	39.7	41.2	43.1	38.1	38.0	37.6	37.5
12	38.9	42.2	39.9	38.9	39.9	37.8	37.6	37.4	28	40.8	39.8	40.8	43.0	38.1	37.8	37.7	37.5
13	38.9	42.2	40.7	40.2	39.6	37.9	37.6	37.4	29	40.8	39.7	39.2		38.1	37.7	37.6	37.5
14	39.0	42.3	41.0	41.5	39.2	37.8	37.6	37.4	30	40.9	39.7	38.6		38.0	37.8	37.7	37.4
15	39.0	42.3	40.8	40.2	38.9	37.8	37.6	37.5	31		39.8	38.4		38.0		37.6	
16	39.0	41.7	39.6	39.0	38.6	37.8	37.6	37.4									

Crest Stages:								
	Date	11- 7-58	12- 4-58	1-10-59	1-14-59	1-27-59	2-13-59	3- 5-59
	Time	1:00 AM	11:00 AM	3:00 PM	2:00 PM	11:00 AM	7:00 PM	5:00 PM
	Stage	40.3	42.6	41.3	41.8	41.7	42.0	43.7

E-Estimated NR-No Record

TABLE 350

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER NEAR VERNALIS

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr	May	June
1	10.2	10.7	8.9	8.4	10.4	7.2	7.0	6.4	17	10.3	9.2	9.3	10.3	7.4	6.3	6.4	5.8
2	10.2	10.8	8.7	8.3	10.3	7.0	7.0	6.4	18	10.4	8.8	9.2	10.6	7.4	6.4	6.5	5.7
3	10.2	10.9	8.2	8.2	10.0	6.9	7.1	6.3	19	10.5	8.7	8.9	11.6	7.1	6.4	6.5	5.7
4	10.1	10.7	8.3	8.4	10.2	6.8	7.0	6.2	20	10.6	8.7	8.7	11.3	7.0	6.4	6.4	5.7
5	10.2	10.5	8.2	8.3	10.1	6.7	6.9	6.1	21	10.6	8.7	8.8	11.4	7.0	6.3	6.4	5.8
6	10.4	10.5	8.2	8.3	9.8	6.7	6.7	6.0	22	NR	8.6	8.8	11.8	7.0	6.3	6.4	5.8
7	10.4	10.3	8.6	8.3	9.5	6.6	6.5	6.1	23	NR	8.6	8.7	11.8	7.0	6.3	6.5	5.7
8	10.4	10.2	8.4	8.2	9.4	6.6	6.5	6.2	24	NR	8.8	8.7	11.3	7.2	6.3	6.5	5.6
9	10.4	10.1	8.6	8.2	9.2	6.5	6.5	6.1	25	10.5	8.9	8.9	10.9	7.3	6.3	6.5	5.5
10	10.3	10.1	9.0	8.1	9.1	6.6	6.5	6.0	26	10.6	8.8	8.9	10.4	7.3	6.7	6.4	5.5
11	10.2	10.0	9.3	8.6	8.8	6.6	6.6	6.0	27	10.7	8.7	8.8	10.7	7.3	7.1	6.3	5.6
12	10.2	10.0	9.3	9.0	8.6	6.6	6.6	6.1	28	10.7	8.7	9.2	10.6	7.3	7.3	6.4	5.6
13	10.3	10.0	8.8	9.2	8.4	6.6	6.4	5.9	29	10.6	8.7	8.8		7.4	7.4	6.3	5.8
14	10.3	9.9	9.2	9.3	8.2	6.5	6.3	6.0	30	10.7	8.7	8.5		7.4	7.2	6.3	5.7
15	10.3	9.7	9.4	9.2	8.2	6.4	6.4	6.2	31		8.8	8.5		7.4		6.4	
16	10.3	9.6	9.4	9.1	7.8	6.4	6.4	6.0									

Crest Stages:		
	Date	2-22-59
	Time	9:00 PM
	Stage	11.9

E-Estimated NR-No Record

TABLE 351

DAILY MEAN GAGE HEIGHT
CALAVERAS RIVER AT JENNY LIND

In feet

Date	1958		1959						Date	1958		1959					
	Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1	1.5	NF	1.8	2.1	2.9	1.5	1.5	3.3	17	2.2	1.7	2.2	2.5	1.3	1.4	1.5	2.8
2	1.5	NF	1.8	2.0	2.8	1.5	1.5	3.4	18	2.2	1.8	2.2	3.3	1.3	1.4	1.5	2.8
3	1.5	NF	1.8	2.0	2.7	1.5	1.5	3.0	19	1.5	1.8	2.2	4.9	1.3	1.4	1.5	2.8
4	1.5	0.6	1.8	2.0	2.7	1.5	1.5	3.2	20	1.2	1.8	2.1	5.3	1.4	1.4	1.5	2.7
5	1.5	1.7	1.8	2.0	2.6	1.5	1.5	3.1	21	1.7	1.8	2.1	5.2	1.4	1.4	1.5	2.6
6	1.5	1.7	2.0	2.0	2.6	1.5	1.5	2.9	22	1.9	1.8	2.0	4.7	1.4	1.4	1.5	2.5
7	1.5	1.7	2.4	2.0	2.6	1.5	1.5	2.9	23	1.9	1.8	2.0	4.2	1.4	1.4	1.5	2.3
8	1.5	1.7	2.3	2.0	2.5	1.5	1.5	2.9	24	1.8	1.8	2.0	3.8	1.5	1.4	1.5	2.1
9	1.5	1.7	2.3	2.0	2.7	1.5	1.5	2.9	25	1.3	1.8	2.2	3.5	1.4	1.5	1.5	1.9
10	1.5	1.7	3.8	2.6	3.6	1.5	1.5	3.0	26	1.5	1.8	2.3	3.3	1.5	1.6	1.5	1.7
11	1.5	1.7	4.2	6.4	3.7	1.5	1.5	3.1	27	1.8	1.8	2.4	3.1	1.4	1.5	1.5	1.6
12	1.5	1.8	3.1	5.5	2.4	1.5	1.5	3.0	28	1.8	2.0	2.3	3.0	1.4	1.5	1.5	1.5
13	1.6	1.8	2.9	4.0	1.5	1.5	1.5	3.0	29	1.4	2.0	2.2		1.5	1.5	1.5	1.4
14	1.6	1.8	2.7	3.3	1.4	1.4	1.4	2.9	30	1.1	1.9	2.2		1.5	1.5	1.9	1.2
15	1.6	1.7	2.5	3.1	1.4	1.4	1.4	2.9	31		1.9	2.1		1.5		2.8	
16	1.8	1.7	2.3	4.1	1.4	1.4	1.5	2.9									

Crest Stages:							
	Date	1-10-59	2-11-59	2-16-59	2-20-59	3-10-59	6- 1-59
	Time	10:00 PM	10:00 AM	2:00 PM	4:00 AM	3:30 PM	4:00 PM
	Stage	4.9	6.8	6.0	5.3	4.7	3.9

E-Estimated NR-No Record

TABLE 352

DAILY MEAN GAGE HEIGHT
MOKELUMNE RIVER NEAR CLEMENTS

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	2.8	2.5	2.3	2.0	3.6	2.4	2.6	2.6	17	2.8	2.4	2.0	2.9	3.6	2.3	2.5	2.7
2	2.8	2.4	1.9	2.6	3.7	2.3	2.5	2.7	18	2.8	2.4	1.7	3.2	3.6	2.3	2.5	2.7
3	2.8	2.4	2.0	2.6	3.7	2.3	2.5	2.7	19	2.8	2.5	1.7	3.7	3.6	2.3	2.5	2.7
4	2.8	2.3	1.6	2.5	3.7	2.3	2.4	2.7	20	2.8	2.5	2.0	3.5	3.6	2.3	2.5	2.7
5	2.8	2.3	1.7	2.6	3.7	2.3	2.5	2.7	21	2.8	2.4	2.0	3.8	3.6	2.3	2.5	2.7
6	2.8	2.3	2.0	2.5	3.7	2.3	2.5	2.7	22	2.8	2.4	2.0	3.5	3.6	2.3	2.5	2.7
7	2.8	2.4	2.0	2.5	3.7	2.3	2.5	2.7	23	2.8	2.4	2.0	3.2	3.6	2.3	2.5	2.7
8	2.8	2.4	2.0	2.5	3.7	2.3	2.5	2.7	24	2.8	2.4	2.1	3.2	3.6	2.2	2.5	2.7
9	2.9	2.4	2.1	2.5	3.7	2.3	2.5	2.7	25	2.7	2.5	2.1	3.2	2.8	2.3	2.6	2.7
10	2.8	2.4	2.2	2.8	3.7	2.3	2.5	2.7	26	2.8	2.5	1.9	3.2	2.7	2.4	2.5	2.7
11	2.7	2.4	1.8	3.0	3.7	2.3	2.5	2.7	27	2.8	2.3	2.0	3.3	2.7	2.3	2.6	2.7
12	2.8	2.4	1.9	2.9	3.7	2.3	2.5	2.7	28	2.8	2.4	2.0	3.3	2.7	2.5	2.5	2.7
13	2.8	2.4	2.1	2.6	3.7	2.3	2.5	2.7	29	2.8	2.4	2.0		2.7	2.3	2.5	2.7
14	2.7	2.4	2.0	2.5	3.7	2.3	2.5	2.7	30	2.8	2.4	2.0		2.7	2.2	2.5	2.7
15	2.8	2.4	2.0	2.7	3.6	2.3	2.5	2.7	31		2.4	2.0		2.6		2.5	
16	2.8	2.4	2.0	3.3	3.6	2.3	2.5	2.7									

Crest Stages:								
Date	2-10-59	2-11-59	2-15-59	2-16-59	2-17-59	2-18-59	2-20-59	2-21-59
Time	10:15 PM	2:00 AM	11:45 PM	11:30 PM	11:45 PM	11:30 PM	6:00 AM	8:30 PM
Stage	4.2	4.3	4.0	3.9	4.4	4.7	4.0	4.2

E - Estimated NR - No Record

TABLE 353

DAILY MEAN GAGE HEIGHT
MOKELUMNE RIVER AT WOODBRIDGE

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	5.8	6.0	6.3	4.7	7.9	4.1	3.6	3.6	17	5.8	5.0	5.0	7.6	5.8	3.4	3.6	3.6
2	5.9	5.1	5.5	5.4	8.3	3.9	3.6	3.6	18	5.9	4.9	4.8	7.1	6.1	3.4	3.7	3.6
3	5.8	4.9	5.3	6.1	8.4	3.7	3.7	3.6	19	6.0	5.1	4.6	7.9	7.4	3.4	3.7	3.6
4	5.7	5.0	4.9	6.1	8.4	3.6	3.7	3.6	20	5.9	5.4	4.7	8.2	7.3	3.4	3.7	3.6
5	5.7	4.9	4.7	6.1	8.4	3.6	3.7	3.6	21	5.8	5.4	5.0	8.3	7.2	3.4	3.7	3.6
6	5.8	4.8	4.8	6.1	8.4	3.6	3.7	3.6	22	5.8	5.5	5.0	8.5	7.3	3.5	3.7	3.6
7	5.8	5.1	5.1	6.1	8.4	3.5	3.7	3.6	23	5.8	5.6	5.0	8.0 E	7.3	3.5	3.7	3.6
8	5.7	5.2	5.1	6.2	8.4	3.5	3.7	3.6	24	5.8	5.5	5.1	7.7 E	7.3	3.5	3.7	3.6
9	5.7	5.0	5.3	6.2	8.4	3.5	3.6	3.6	25	5.9	5.5	5.2	7.7	6.9	3.5	3.7	3.5
10	5.8	5.1	5.4	6.3	8.4	3.5	3.6	3.6	26	6.0	5.7	5.0	7.6	5.6	3.6	3.7	3.4
11	5.7	5.0	4.8	7.0	8.4	3.5	3.6	3.6	27	6.0	5.6	4.9	7.7	4.7	3.6	3.6	3.4
12	5.7	4.9	4.8	6.5	8.4	3.5	3.6	3.6	28	6.0	5.5	5.0	7.8	4.8	3.6	3.6	3.5
13	5.8	5.0	5.1	6.8	8.4	3.5	3.6	3.6	29	6.0	5.5	5.0		5.0	3.6	3.5	3.5
14	5.8	5.2	5.2	6.4	8.4	3.4	3.6	3.6	30	6.0	6.0	4.9		5.3	3.6	3.5	3.5
15	5.7	5.3	5.1	6.3	8.4	3.4	3.6	3.6	31		8.0	4.9		5.0		3.5	
16	5.8	5.1	5.1	6.7	8.3	3.4	3.6	3.6									

Crest Stages:								
Date	12-31-58	2-19-59	2-20-59	2-21-59	2-22-59	2-23-59	2-24-59	3-6-59
Time	12:00 Noon	1:00 PM	12:15 PM	3:00 PM	10:00 AM	8:15 AM	4:00 PM	4:45 PM
Stage	12.1	8.9	8.5	8.6	9.0	8.8	8.3	8.4

E - Estimated NR - No Record

TABLE 354

DAILY MEAN GAGE HEIGHT
COSUMNES RIVER AT MICHIGAN BAR

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.3	2.4	2.5	3.0	3.7	3.7	3.3	2.6	17	2.6	2.4	3.1	5.6	3.5	3.4	2.9	2.3
2	2.3	2.4	2.5	3.0	3.7	3.8	3.4	2.6	18	2.5	2.4	3.0	5.5	3.5	3.4	2.9	2.3
3	2.3	2.4	2.5	2.9	3.8	3.8	3.4	2.6	19	2.5	2.4	3.0	5.4	3.5	3.3	2.9	2.3
4	2.3	2.4	2.5	2.9	3.8	3.8	3.3	2.6	20	2.5	2.4	2.9	4.7	3.5	3.3	2.9	2.3
5	2.3	2.4	2.5	2.9	3.8	3.8	3.2	2.6	21	2.5	2.4	2.9	4.5	3.4	3.3	2.8	2.3
6	2.3	2.4	2.9	2.9	3.8	3.8	3.2	2.5	22	2.5	2.4	2.8	4.2	3.4	3.2	2.8	2.3
7	2.3	2.4	3.1	2.9	3.8	3.8	3.2	2.5	23	2.4	2.5	2.8	4.0	3.5	3.2	2.8	2.2
8	2.3	2.4	2.9	2.8	3.7	3.7	3.1	2.6	24	2.4	2.5	3.2	3.9	3.6	3.2	2.8	2.2
9	2.3	2.4	3.0	2.9	3.7	3.7	3.1	2.5	25	2.4	2.5	3.6	3.8	3.5	3.2	2.8	2.2
10	2.4	2.4	4.5	3.2	3.7	3.6	3.1	2.5	26	2.4	2.5	3.7	3.7	3.5	3.8	2.9	2.2
11	2.4	2.4	4.1	4.6	3.6	3.6	3.1	2.5	27	2.4	2.7	3.4	3.7	3.6	3.8	2.8	2.2
12	2.4	2.4	4.0	4.0	3.6	3.6	3.1	2.5	28	2.4	2.9	3.3	3.7	3.6	3.5	2.8	2.2
13	2.4	2.4	4.0	3.6	3.6	3.5	3.0	2.4	29	2.4	2.7	3.2		3.5	3.4	2.7	2.2
14	2.4	2.4	3.5	3.4	3.6	3.5	3.0	2.4	30	2.4	2.6	3.1		3.5	3.3	2.7	2.2
15	2.6	2.4	3.3	3.4	3.6	3.5	3.0	2.3	31		2.6	3.1		3.8		2.7	
16	2.7	2.4	3.2	4.9	3.5	3.4	2.9	2.3									

Crest Stages:					
	Date	1- 7-59	1-10-59	1-24-59	2-11-59	2-16-59
	Time	2:00 AM	2:00 PM	7:30 PM	7:00 AM	7:00 PM
	Stage	3.3	4.8	4.1	5.1	6.4

E-Estimated NR-No Record

TABLE 355

DAILY MEAN GAGE HEIGHT
COSUMNES RIVER AT McCONNELL

In feet

Date	1958		1959						Date	1958		1959					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	29.5	29.9	30.1	30.7	31.8	31.7	31.0	29.9	17	30.3	29.9	30.8	37.1	31.4	31.1	30.4	NF
2	29.6	29.9	30.1	30.6	31.8	31.7	31.0	29.8	18	30.2	29.8	30.7	37.2	31.4	31.1	30.3	NF
3	29.5	29.9	30.0	30.6	31.9	31.8	31.1	29.6	19	30.0	29.8	30.7	37.1	31.4	31.0	30.3	NF
4	29.6	29.9	30.0	30.6	32.0	31.8	31.0	29.5	20	30.0	29.8	30.6	34.8	31.4	31.0	30.3	NF
5	29.6	29.9	30.1	30.5	32.0	31.9	31.0	29.4	21	30.0	29.9	30.6	34.4	31.3	30.9	30.3	NF
6	29.4	29.9	30.1	30.5	31.9	31.8	30.9	29.3	22	30.0	29.9	30.5	34.4	31.3	30.9	30.2	NF
7	29.4	29.9	30.8	30.5	31.9	31.8	30.8	29.3	23	30.0	29.9	30.4	33.1	31.3	30.8	30.2	NF
8	29.4	29.9	30.8	30.4	31.8	31.7	30.8	29.3	24	30.0	30.0	30.5	32.5	31.5	30.8	30.3	NF
9	29.4	29.9	30.6	30.4	31.8	31.6	30.6	29.3	25	29.9	30.0	31.5	32.2	31.5	31.0	30.3	NF
10	29.4	29.9	31.9	30.5	31.7	31.5	30.6	NF	26	29.9	30.0	32.2	32.0	31.4	31.6	30.3	NF
11	29.6	29.9	33.1	33.7	31.7	31.4	30.6	NF	27	29.9	30.1	31.6	31.9	31.5	32.2	30.3	NF
12	29.7	29.9	32.0	34.1	31.6	31.4	30.6	NF	28	29.9	30.3	31.2	31.8	31.5	31.6	30.3	NF
13	29.8	29.9	32.2	32.5	31.6	31.3	30.6	NF	29	29.9	30.5	31.1		31.4	31.3	30.2	NF
14	29.8	29.9	31.7	31.8	31.6	31.3	30.5	NF	30	29.9	30.3	31.0		31.4	31.1	30.1	NF
15	29.8	29.9	31.2	31.5	31.6	31.2	30.4	NF	31		30.2	30.8		31.6		29.9	
16	30.2	29.9	31.0	32.7	31.5	31.2	30.4	NF									

Crest Stages:								
	Date	11-16-58	1-11-59	1-26-59	2-11-59	2-17-59	2-18-59	2-19-59	4-27-59
	Time	4:00 PM	2:00 AM	3:00 AM	6:00 PM	5:00 AM	9:30 AM	10:00 AM	9:30 AM
	Stage	31.0	33.6	32.3	35.4	37.9	37.6	37.7	32.4

E-Estimated NR-No Record

CENTRAL VALLEY AREA

LAHONTAN AREA

LAHONTAN AREA

Introduction

The water resources of the Lahontan Area as a whole are greatly deficient with respect to the potential development of this region; however, sufficient water resources to supply their ultimate needs do exist in a few stream basins.

Geographically, the Lahontan Area is the most extensive of the hydrographic areas. Lying along almost the entire California-Nevada border, the Lahontan Area extends from the Oregon border to the New York Mountains, within 40 miles west of the Colorado River. It includes all the drainage basins of California lying east of the Warner Mountains, the Sierra Nevada, the Tehachapi Mountains, the Portal Ridge, the San Gabriel Mountains, and the San Bernardino Mountains. It does not include areas draining into the Salton Sea and the Colorado River. All of the principal streams of the area head on the eastern slopes of the Sierra Nevada or on the San Bernardino Mountains and flow into inland lakes or sinks in California or Nevada.

Tabular Information

On the following pages are the data for 11 gaging stations for the 1959 water year.

TABLE 356

GAGING STATION DESCRIPTION
LAHONTAN AREA

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE					FROM	TO		
BIDWELL CREEK NEAR FORT BIDWELL																
41 52 57	120 10 25	SE 6 46N 16E	50	3.26	4/ 5/59	374E	4.32	5/11/58	7534		APR 55-OCT 57ϋ MAY 58-DATE	APR 55-OCT 57ϋ MAY 58-DATE	1958		0.00	LOCAL
Station located E of New Pine Creek-Fort Bidwell Highway, 2.0 mi. NW of Fort Bidwell. Tributary to Upper Alkali Lake. Stage-discharge relationship at times affected by ice. Drainage area is approx. 50 sq. mi. (f)																
BLACKWOOD CREEK NEAR TAHOE CITY																
39 06 27	120 09 37	NE36 15N 16E	128	5.71	5/12/59	401E	6.50	5/23/58	12820		JAN 58-DATE	JAN 58-DATE	1958		0.00	LOCAL
Station located below State Highway 89 bridge, 4.6 mi. S of Tahoe City. Tributary to Lake Tahoe. Stage-discharge relationship at times affected by ice. Drainage area is 11.4 sq. mi. (f)																
CEDAR CREEK AT CEDARVILLE																
41 31 48	120 11 15	SE 6 42N 16E	10	3.62	1/12/59	41E	2.79	5/11/58	1254		MAY 58-DATE	MAY 58-DATE	1958		0.00	LOCAL
Station located below Cedarville-Alturas Highway culvert, immediately W of Cedarville. Tributary to Middle Alkali Lake. Stage-discharge relationship at times affected by ice. Drainage area is approx. 25 sq. mi. (f)																
EAGLE CREEK AT EAGLEVILLE																
41 18 38	120 07 27	NE26 40N 16E	24	2.81	6/5/59	78E	3.39	6/19/58	2891		MAY 58-DATE	MAY 58-DATE	1958		0.00	LOCAL
Station located 0.7 mi. SW of Eagleville. Tributary to Middle Alkali Lake. Stage-discharge relationship at times affected by ice. (f)																
EAGLE LAKE NEAR SUSANVILLE																
40 36 45	120 43 34	SW22 32N 11E		6.80	3/30/59		7.25	6/19/58				OCT 56-DATE	1956		5095.06	USGS
Station located on east shore, 14 mi. NW of Susanville. Figures listed are gage heights at 12:00 noon to nearest 0.05 ft. Maximum gage height listed does not indicate maximum discharge. (s)																
GOLD RUN CREEK NEAR SUSANVILLE																
40 21 26	120 42 11	SE23 29N 11E	56	2.53	2/16/59	483E	3.81	2/24/58	2874	9209	DEC 57-DATE	DEC 57-DATE	1957		0.00	LOCAL
Station located 5.0 mi. SW of Susanville. Tributary to Honey Lake via Susan River. Stage-discharge relationship at times affected by ice. Drainage area is 7.2 sq. mi. (f)																
LONG VALLEY CREEK NEAR DOYLE																
39 55 44	120 01 06	SE13 24N 17E	71	1.47	2/16/59	1200E	3.98	2/24/58	4948	19220	DEC 57-DATE	DEC 57-DATE	1957		0.00	LOCAL
Station located at U. S. Highway 395 bridge, 8.1 mi. SE of Doyle. Tributary to Honey Lake. Stage-discharge relationship at times affected by ice. Drainage area is approx. 150. sq. mi. (f)																
PINE CREEK NEAR SUSANVILLE																
40 39 49	120 48 33	SE 2 32N 10E	108	3.36	3/17/59				6297	36140	JUL 56-DATE	JUL 56-DATE	1956		0.00	LOCAL
Station located 1.8 mi. above mouth, 18 mi. NW of Susanville. Tributary to Eagle Lake. Stage-discharge relationship at times affected by ice. Drainage area is approx. 110 sq. mi. (f)																

E - Estimated
(s) - Record of stage published
ϋ - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 356

GAGING STATION DESCRIPTION
LAHONTAN AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1958-59 WATER YEAR			OF RECORD			1958-59 WATER YR. IN AC-FT	1958 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE					FRDM	TO		
TROUT CREEK NEAR TAHOE VALLEY																
38 55 12	119 58 17	SE 3 12N 18E	88E	6.68	2/17/59	244	7.91	5/23/58	13860	34330	DEC 57-DATE	DEC 57-DATE	1957		0.00	LOCAL
Station located 15 ft. below Martin Ave. bridge, 1.8 mi. E of Tahoe Valley. Tributary to Lake Tahoe. Stage-discharge relationship at times affected by ice. Flow affected by upstream diversions. (f)																
UPPER TRUCKEE RIVER NEAR MEYERS																
38 50 35	120 01 25	SE31 12N 18E	312	6.36	5/12/59	1420E	8.70	5/23/58	24080		DEC 57-DATE	DEC 57-DATE	1957		0.00	LOCAL
Station located approx. 0.1 mi. E of State Highway 89, 1.1 mi. SW of Meyers. Tributary to Lake Tahoe. Stage-discharge relationship at times affected by ice. (f)																
WILLOW CREEK NEAR LITCHFIELD																
40 26 36	120 26 44	SW19 30N 14E	941	7.32	3/13/59	1200	7.91	2/25/58	25260		NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located 5.3 mi. NW of Litchfield, 11 mi. NE of Susanville. Tributary to Honey Lake. Stage-discharge relationship at times affected by ice. (f)																

E - Estimated
(s) - Record of stage published
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 357

GAGING STATION
ADDITIONS AND DELETIONS

Lahonton Area

New Stations

None

Stations Dropped

None

TABLE 358

DAILY MEAN DISCHARGE
BIDWELL CREEK NEAR FORT BIDWELL

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.1	4.8	6.5	6.2	5.6	11	15	26	27	7.6	3.6	2.8
2	5.3	4.8	6.2	5.1	5.3	14	24	23	28	7.2	3.6	2.8
3	5.3	5.3	6.5	5.1	6.5	14	33	22	30	6.9	3.4	2.8
4	5.3	5.1	6.5	5.1	6.2	13	40	19	31	6.5	3.2	2.8
5	5.3	5.3	6.2	4.8	5.6	13	43	21	33	6.2	3.2	2.8
6	5.3	5.1	5.9	6.2	5.9	12	42	19	34	6.2	3.2	2.8
7	5.3	5.3	6.5	6.2	6.2	12	33	19	32	5.9	3.2	2.8
8	5.3	5.1	8.7	6.2	6.2	12	28	19	28	5.6	3.4	2.8
9	5.3	7.2	7.9	8.7	6.5	12	26	21	26	5.6	3.4	2.8
10	5.3	7.9	7.6	9.1	6.9	11	25	21	24	5.3	3.4	2.8
11	5.3	5.3E	9.9	9.1	7.2	10	26	22	22	5.1	3.4	2.8
12	5.1	5.9E	9.9	20	7.6	12	28	25	19	5.1	3.2	2.8
13	5.1	7.2E	7.2	15	8.7	14	28	30	19	4.8	3.2	2.8
14	5.1	6.5E	6.9	11	8.3	12	26	33	18	5.1	3.2	3.4
15	5.1	8.3E	7.9	9.5	7.2	11	24	30	18	4.8	3.2	4.5
16	5.1	9.1E	6.9	8.7	6.9	11	22	28	16	4.5	3.2	3.8
17	4.8	13 E	6.9	7.9	6.9	13	20	31	15	4.3	3.2	3.6
18	5.1	12 E	6.9	7.6	6.5	14	19	28	14	4.5	3.2	4.8
19	6.5	8.7E	6.9	6.5	6.2	13	17	25	13	4.3	3.4	5.3
20	5.3	6.9E	6.9	6.2	5.9	11	16	24	12	4.3	3.2	4.3
21	5.3	7.2E	7.9	8.3	6.5	12	16	23	11	4.0	3.4	3.8
22	5.3	7.2E	6.2	8.3	6.5	11	18	22	10	4.0	3.2	3.8
23	5.3	7.2E	6.9	7.2	6.2	11	21	21	9.9	4.0	3.2	3.6
24	5.3	6.9E	6.5	7.2	6.4	10	23	21	9.9	4.0	3.2	3.4
25	5.1	6.9E	6.5	6.5	6.2	9.4	27	22	10	3.8	3.2	3.4
26	5.1	6.9	6.9	6.5	6.2	9.9	28	28	13	3.8	3.0	3.8
27	4.8	6.2	6.9	8.3	7.2	8.7	24	27	10	3.4	3.0	3.6
28	4.8	6.2	6.5	7.9	8.7	9.1	22	27	9.1	3.6	2.8	3.6
29	4.5	7.6	6.5	6.5		9.5	21	26	8.3	3.6	2.8	3.6
30	4.5	7.2	6.5	6.9		9.9	22	27	8.3	3.6	2.8	3.6
31	4.5		6.5	6.2		9.9		27		3.6	2.8	
Mean	5.2	6.9	7.1	7.9	6.7	11.5	25.2	24.4	18.6	4.9	3.2	3.4
Ac-Ft	317	413	434	484	369	705	1502	1502	1108	300	197	203

E — Estimated NR — No Record Total Discharge in Acre-Feet 7534

TABLE 359

DAILY MEAN DISCHARGE
CEDAR CREEK AT CEDARVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0.6	0.8	1.0	1.7	3.4	5.9	5.4	2.2	0.7	0	0
2		0.7	0.8	0.8	1.7	3.7	7.0	4.9	2.2	0.7	0	0
3		0.7	0.8	0.8	2.0	5.4	7.0	5.4	2.0	0.6	0	0
4		0.7	0.8	0.8	1.7	5.4	7.0	5.4	2.0	0.7	0	0
5		0.7	0.8	0.9	1.7	4.9	7.0	6.4	2.2	0.8	0	0
6		0.8	0.8	0.9	1.7	4.9	5.9	6.4	2.2	0.8	0	0
7		0.8	0.8	0.9	1.7	4.5	5.4	5.9	2.0	0.7	0	0
8	.5E	0.8	0.8	0.9	1.5	4.5	6.4	5.4	1.7	0.6	0	0
9		0.9	0.9	1.0	1.5	4.1	5.9	5.4	1.7	0.7	0	0
10		1.5	0.9	1.4	1.5	3.7	5.4	4.9	1.7	0.5	0	0
11		0.8	0.9	1.4	1.5	3.7	5.4	4.5	1.5	0.6	0	0
12		0.8	1.0	6.2	1.5	4.5	5.4	4.1	1.2	1.0	0	0
13		1.4	0.9	3.4	1.4	5.9	4.9	4.1	1.2	1.0	0	0
14		1.4	0.9	2.2	1.4	4.9	4.5	4.1	1.0	1.0	0.1	0.1
15		1.2	0.9	2.0	1.4	4.5	4.1	3.7	1.0	0.8	0	0.2
16	0.5E	1.2	0.8	1.7	1.5	5.4	4.1	3.4	1.0	0.3	0	0.2
17	0.5	1.2	0.8	1.5	1.5	4.9	3.7	3.4	0.9	0.2	0	0.1
18	0.6	1.2	0.8	1.5	1.5	4.5	3.7	3.4	0.8	0.1	0	0.2
19	0.8	1.4	0.8	1.4	1.5	4.1	3.4	2.8	0.8	0.1	0	0.3
20	0.7	1.4	0.8	1.2	1.7	4.1	3.4	2.5	0.8	0.2	0.3	0.3
21	0.7	1.4	0.9	1.4	1.7	4.1	3.4	2.5	0.7	0.1	0.3	0.3
22	0.7	1.2	0.8	1.4	1.7	4.1	3.4	2.8	0.7	0.1	0.2	0.3
23	0.7	1.2	0.8	1.4	1.7	4.1	3.7	2.5	0.7	0.2	0.2	0.2
24	0.7	1.0	0.8	1.4	1.7	3.7	4.1	2.5	0.8	0.2	0.1	0.2
25	0.7	0.9	0.8	1.4	1.7	3.7	4.5	2.8	1.0	0.1	0.1	0.2
26	0.6	0.8	0.9	1.4	1.7	3.7	4.9	4.5	1.0	0.1	0.1	0.2
27	0.6	0.8	1.2	1.7	2.0	3.7	4.5	4.1	1.0	0	0	0.3
28	0.6	0.7	1.0	2.0	2.5	4.1	4.1	3.4	0.9	0.1	0	0.3
29	0.6	0.7	1.0	1.7	—	4.1	3.7	3.1	0.8	0.1	0	0.3
30	0.5	0.7	1.0	2.0	—	4.1	3.4	2.5	0.8	0.1	0	0.3
31	0.6	—	1.0	2.0	—	4.1	—	2.5	—	0.1	0	—
Mean	0.6	1.0	0.9	1.6	1.7	4.3	4.8	4.0	1.3	0.4	0.0	0.1
Ac-Ft.	35	59	54	99	92	267	288	247	76	26	3	8

E — Estimated NR — No Record Total Discharge in Acre-Feet 1254

TABLE 360

DAILY MEAN DISCHARGE
EAGLE CREEK AT EAGLEVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.4	1.9	2.1	2.1	2.3	2.4	4.2	8.2	12	4.7	1.4	0.9
2	2.4	1.9	2.1	3.0	2.3E	2.6	5.6	7.0	15	4.5	1.4	0.9
3	2.4	1.9	2.2	—	2.6E	2.6	6.6	6.8	17	4.4	1.4	0.8
4	2.4	2.0	2.2	2.5E	2.3E	2.6E	7.0	6.4	18	4.0	1.3	0.8
5	2.3	2.0	2.1	—	2.1E	2.6E	7.2	6.4	21	3.8	1.3	0.8
6	2.3	2.0	2.1	—	2.1E	2.6E	6.6	6.2	23	3.6	1.3	0.8
7	2.3	2.1	2.8	2.0	2.2	2.6	5.8	6.2	21	3.6	1.3	0.8
8	2.3	2.0	2.7	1.9	2.8	2.6E	5.4	6.6	18	3.3	1.2	0.8
9	2.3	2.0	2.5	2.2	4.8	2.6E	5.4	7.0	18	3.0	1.2	0.8
10	2.3	2.3	2.5	2.1	4.5	2.6E	5.6	7.2	15	2.8	1.2	0.8
11	2.2	2.0	3.0	2.2	2.5E	2.7E	6.2	8.4	15	2.7	1.2	0.8
12	2.1	2.2	2.8	3.8	2.5	2.8	6.8	11	17	2.7	1.2	0.8
13	2.1	2.6	2.4	2.6	2.5	3.0	6.8	15	17	2.6	1.2	0.8
14	2.0	2.4	3.1	2.5	2.3	2.8E	6.6	16	16	2.7	1.2	0.9
15	2.0	3.0	3.1	2.3	1.5	2.8E	6.2	14	14	2.5	1.2	0.9
16	2.0	3.2	2.3	2.2	1.2	3.0	6.0	13	13	2.4	1.1	0.9
17	2.0	5.6	2.2	2.2	1.1	3.0	5.6	12	11	2.3	1.1	0.8
18	2.3	5.2	2.2	2.2	1.5	3.0	5.4	11	12	2.2	1.0	1.0
19	2.3	3.1	2.1	2.2	1.9	2.8	5.2	9.2	12	2.2	1.1	0.9
20	2.2	2.5	2.1	3.0	1.9	2.7	5.4	8.7	12	2.0	1.2	1.0
21	2.2	2.4	2.2	5.0	2.0	2.8	5.8	8.4	12	1.9	1.1	0.9
22	2.2	2.4	1.8	3.0	2.0	2.7	6.6	7.9	11	1.8	1.0	0.9
23	2.2	2.4	1.9	2.1	2.0E	2.7	7.7	7.9	9.8	1.9	1.0	0.8
24	2.2	2.3	2.1	2.4	2.0E	2.7	8.4	7.9	8.7	1.8	0.9	0.9
25	2.2	2.2	2.0	2.4	1.9E	2.7	8.2	8.7	8.7	1.8	0.9	0.9
26	2.1	2.2	2.0	2.4	2.0E	2.6	7.5	9.2	8.4	1.6	0.9	1.2
27	2.1	2.1	2.0	2.5	2.0	2.6	6.4	8.9	7.5	1.5	0.9	1.0
28	2.0	2.7	2.0	2.4	2.2	2.6	6.4	8.9	6.2	1.5	0.9	1.0
29	2.0	3.1	3.0	3.0E	—	2.7	6.6	8.7	5.8	1.5	0.9	1.0
30	1.9	2.6	2.6	3.2	—	2.8	7.7	8.9	5.2	1.5	0.9	1.0
31	1.9	—	2.0	2.5E	—	3.0	—	10	—	1.4	0.9	—
Mean	2.2	2.5	2.3	2.6	2.3	2.7	6.4	9.1	13.3	2.6	1.1	0.9
Ac-Ft	134	151	143	157	125	167	379	559	794	160	69	53

E — Estimated NR — No Record

Total Discharge in Acre-Feet 2891

TABLE 361

DAILY MEAN DISCHARGE
PINE CREEK NEAR SUSANVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	3.1	45 E	71	8.2				
2				0	1.5	42	80	7.0				
3				0	1.2	40	88	6.6				
4				0	1.0	41	90	8.2				
5				0	0.5	40	92	8.7				
6				0	0.4	36	94	7.8				
7				0	0.4	31	82	5.6				
8				0	0.1	28	64	4.4				
9				0	0	27	47	3.1				
10				0	0	28	37	2.1				
11				0	0	29	30	1.5				
12	N	N	N	50	0	37	24	0.9	N	N	N	N
13	O	O	O	82	0	61	22	0.3	O	O	O	O
14				46 E	0	55	19	0.1				
15				36	0	49	17	0				
16	F	F	F	26	0	62	15	0	F	F	F	F
17	L	L	L	19 E	0	75	15	0	L	L	L	L
18	O	O	O	16	0	73	13	0	O	O	O	O
19	W	W	W	12	0	61	11	0	W	W	W	W
20				8.7 E	0	55	9.1	0				
21				4.6 E	0	55	7.8	0				
22				8.7	3.2	53	6.6	0				
23				4.9	33 E	46	5.9	0				
24				6.6	37 E	47	5.9	0				
25				7.0	41 E	42	6.3	0				
26				7.8	47 E	45	8.2	0				
27				8.2	50 E	50	11	0				
28				9.1	46 E	55	12	0				
29				5.3		52	12	0				
30				7.0		50	10	0				
31				3.3		61		0				
Mean	0	0	0	11.9	9.5	47.5	33.5	2.1	0	0	0	0
Ac-Ft	0	0	0	730	526	2918	1995	128	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 6297

TABLE 362

DAILY ELEVATION*
EAGLE LAKE NEAR SUSANVILLE

In feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.10	5.90	5.90	6.00	6.25	6.60	6.70	6.60	6.45	6.05	5.55	5.05
2	6.05	5.90	5.90	6.00	6.25	6.60	6.75	6.60	6.45	6.00	5.55	5.05
3	6.05	5.90	5.90	6.00	6.25	6.60	6.75	6.60	6.45	6.00	5.50	5.05
4	6.05	5.90	5.90	6.00	6.25	6.60	6.75	6.60	6.40	5.95	5.50	5.00
5	6.05	5.90	5.90	6.00	6.25	6.60	6.75	6.60	6.40	5.95	5.45	5.00
6	6.05	5.90	5.90	6.05	6.25	6.60	6.75	6.60	6.40	5.90	5.45	5.00
7	6.00	5.90	5.90	6.05	6.25	6.60	6.75	6.55	6.40	5.90	5.45	5.00
8	6.00	5.90	5.90	6.05	6.25	6.60	6.75	6.55	6.35	5.85	5.45	5.00
9	6.00	5.85	5.90	6.10	6.30E	6.60	6.75	6.55	6.35	5.85	5.45	4.95
10	6.00	5.90	5.90	6.10	6.30E	6.60	6.75	6.55	6.35	5.85	5.40	4.95
11	6.00	5.90	5.90	6.10	6.30E	6.60	6.75	6.55	6.30	5.85	5.40	4.90
12	6.00	5.90	5.90	6.15	6.35E	6.60	6.75	6.55	6.30	5.85	5.40	4.90
13	5.95	5.85	5.90	6.15	6.35E	6.65	6.70	6.55	6.30	5.85	5.35	4.85
14	5.95	5.90	5.90	6.15	6.35E	6.65	6.70	6.50	6.30	5.85	5.35	4.85
15	5.95	5.95	5.90	6.15	6.40	6.65	6.70	6.50	6.25	5.80	5.30	4.85
16	5.95	5.90	5.90	6.15	6.45	6.65	6.70	6.50	6.25	5.80	5.30	4.85
17	5.95	5.90	5.90	6.15	6.50	6.65	6.70	6.50	6.20	5.80	5.25	4.80
18	5.95	5.90	5.90	6.15	6.55	6.65	6.70	6.50	6.20	5.80	5.25	4.80
19	5.95	5.90	5.90	6.15	6.55	6.65	6.65	6.50	6.20	5.80	5.20	4.80
20	5.95	5.90	5.90	6.15	6.55	6.65	6.65	6.50	6.20	5.75	5.20	4.80
21	5.90	5.90	5.95	6.15	6.55	6.65	6.65	6.45	6.20	5.75	5.20	4.80
22	5.90	5.90	5.95	6.15	6.55	6.65	6.65	6.50	6.20	5.70	5.20	4.80
23	5.90	5.90	5.95	6.15	6.55	6.65	6.65	6.50	6.20	5.70	5.15	4.80
24	5.90	5.90	5.95	6.20	6.55	6.70	6.65	6.50	6.15	5.70	5.15	4.80
25	5.90	5.90	5.95	6.20	6.55	6.70	6.65	6.50	6.15	5.65	5.15	4.80
26	5.90	5.90	5.95	6.25	6.55	6.70	6.65	6.50	6.10	5.65	5.15	4.80
27	5.90	5.90	6.00	6.25	6.55	6.70	6.65	6.50	6.10	5.65	5.10	4.80
28	5.90	5.90	6.00	6.25	6.60	6.70	6.65	6.50	6.10	5.65	5.10	4.80
29	5.90	5.90	6.00	6.25	—	6.70	6.65	6.50	6.10	5.60	5.10	4.75
30	5.90	5.90	6.00	6.25	—	6.70	6.60	6.50	6.05	5.60	5.10	4.75
31	5.90	—	6.00	6.25	—	6.70	—	6.45	—	5.55	5.05	—

E - Estimated
* Zero on gage equals 5095.06 feet U. S. Geological Survey datum.

TABLE 363

DAILY MEAN DISCHARGE
WILLOW CREEK NEAR LITCHFIELD

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	29	32	51	49	161	22	22	22	16	15	16
2	29	29	32	47	47	152	23	23	24	16	14	16
3	23	29	32	37	46	133	27	23	20	16	15	15
4	23	29 E	32	42	46	105	25	24	20	15	15	15
5	23	30 E	38	41	46	88	25	24	19	15	15	16
6	22	30 E	39	39	44	79	24	24	18	15	15	16
7	22	34	40	41	43	71	22	23	18	16	15	16
8	22	36	41	43	42	64	22	23	17	16	15	16
9	22	37	41	56	41	60	21	22	16	16	15	16
10	22	41	40	62	37	54	21	22	16	16	15	16
11	22	41	39	63	38	51	22	22	17	16	15	16
12	22	41	40	70	44	47	22	26	16	16	15	16
13	22	41	39	65	44	173	21	23	16	15	15	16
14	22	46	39	60	42	159	20	21	16	15	15	16
15	22	45	38	57	44	41	20	21	16	15	16	16
16	22	40	38	55	204	29	20	21	16	15	15	16
17	22	39	38	53	228	27	20	20	16	15	16	16
18	23	43	38	51	240	32	20	20	16	15	16	17
19	24	43	38	49	227	34	21	20	16	15	17	17
20	24	44	38	47	194	27	21	19	16	15	16	17
21	24	43	40	45	176	25	21	19	16	15	16	17
22	25	39	41	44	159	26	22	19	16	15	16	16
23	25	36	40	45	133	27	22	20	16	16	15	16
24	26	35	40	48	116	47	23	20	16	16	16	16
25	26	35	40	55	105	44	18	21	16	15	16	16
26	26	34	41	58	102	39	20	23	15	16	16	16
27	27	33	46	57	116	39	22	23	15	16	16	17
28	27	32	49	56	144	39	22	25	15	16	16	18
29	27	31	45	54		38	22	25	15	16	16	19
30	27	31	43	53		35	22	24	15	16	16	22
31	29		43	51		26		23		15	15	
Mean	24.4	36.5	39.4	51.5	99.9	63.6	21.8	22.1	16.9	15.5	15.5	16.5
Ac-Ft	1500	2174	2420	3164	5548	3911	1295	1359	1004	954	950	980

E — Estimated NR — No Record

Total Discharge in Acre-Feet 25260

TABLE 364

DAILY MEAN DISCHARGE
GOLD RUN CREEK NEAR SUSANVILLE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	1.0	1.3	2.0 E	2.9	6.3	8.5	15	5.8	1.5	0.1	0.1
2	0.6	1.0	1.3	1.7 E	2.9 E	6.6	10	13	5.8	1.4	0.1	0.1
3	0.6	1.0	1.4	2.0 E	3.3 E	6.6	12	12	5.8	1.3	0.1	0.1
4	0.6	1.0	1.5	2.2 E	2.8	5.8	14	11	5.6	1.2	0.1	0.1
5	0.6	1.1	1.4	2.2	2.5	5.3	16	11	5.3	1.0	0.1	0.1
6	0.6	1.2	1.3	2.1	2.5	5.3	15	11	5.3	0.9	0.1	0.1
7	0.7	1.2	1.3	2.1	2.5	5.1	12	12	4.8	0.9	0.1	0.1
8	0.7	1.2	1.4	2.5	2.8 E	4.8	11	13	4.6	0.8	0.1	0.1
9	0.7	1.4	1.4	14	2.9 E	5.1	11	14	4.2	0.7	0.1	0.1
10	0.8	2.1	1.4	12	5.6	4.8	11	13	4.4	0.6	0.1	0.1
11	0.8	1.2	1.4	17	4.6	4.4	12	13	4.6	0.6	0.1	0.1
12	0.8	1.1	1.6	31	2.5	4.8	12	14	4.4	0.5	0.1	0.1
13	0.8	1.6	1.5	14	2.3 E	6.1	12	15	4.4	0.4	0.1	0.1
14	0.8	2.9	1.5 E	9.2	2.2	5.8	13	14	4.0	0.4	0.1	0.2
15	0.7	1.6	1.5	7.2	2.2	5.1	11	12	3.8	0.4	0.1	0.5
16	0.7	2.6	1.5	6.1	22 E	4.8	11	11	3.6	0.4	0.1	0.4
17	0.7	3.9	1.5	5.3	11	5.6	10	10	3.4	0.3	0.2	0.3
18	1.4	1.5	1.5	4.6	7.2	6.1	9.9	9.5	3.3	0.2	0.1	1.6
19	1.3	2.0	1.5	4.2	6.6	5.8	9.9	8.8	2.9	0.2	0.2	0.7
20	1.1	1.7	1.5	3.3 E	6.1	5.6	10	8.5	2.8	0.2	0.2	0.5
21	1.0	1.5	2.0	4.0 E	5.3	6.1	11	8.1	2.6	0.2	0.3	0.5
22	1.0	1.4	1.8	3.8	4.8	6.6	12	8.1	2.5	0.2	0.2	0.5
23	0.9	1.4	1.7	3.4	4.4	6.3	13	8.5	2.3	0.2	0.2	0.5
24	0.9	1.5	1.6	3.8	4.4	5.6	14	7.5	2.1	0.2	0.2	0.5
25	0.9	1.4	1.8	4.4	4.2	5.3	15	7.2	2.2	0.2	0.3	0.4
26	0.9	1.4	2.5	3.8	4.8	6.1	14	7.5	2.3	0.2	0.2	0.4
27	0.9	1.4	2.9	4.0	5.3	5.6	12	6.9	2.8	0.1	0.1	0.4
28	1.0	1.2	2.1	4.0	5.8	5.6	13	6.6	2.3	0.1	0.1	0.4
29	1.0	1.3 E	2.0	3.4		6.1	15	6.3	2.0	0.1	0.1	0.5
30	1.0	1.3 E	2.0	3.3		6.3	16	6.1	1.8	0.1	0.1	0.5
31	1.0		2.0	2.9 E		6.6		5.8		0.1	0.1	
Mean	0.8	1.5	1.6	6.0	4.9	5.7	12.2	10.3	3.7	0.5	0.1	0.3
Ac-Ft.	52	91	101	368	271	349	727	634	222	31	8	20

E — Estimated NR — No Record Total Discharge in Acre-Feet 2874

TABLE 365

DAILY MEAN DISCHARGE
LONG VALLEY CREEK NEAR COYLE

In second-feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.4	7.4	4.1	9.6	8.7	20	7.4	4.1 E	5.0		2. E	
2	3.4	7.4	4.1	10 E	8.2 E	20	7.3	4.8 E	4.1		2.0 E	
3	4.1	6.9	4.1	10 E	8.2 E	20	7.1	5.1 E	4.1	3.[illegible] E	2.[illegible] E	
4	4.9	6.3	4.9	10 E	7.9	16	6.9	6.0 E				
5	4.5	6.3	5.3	12 E	7.8	18	6.8	6.3 E				[illegible] E
6	3.7	7.4	4.9	13	7.7	17	6.1	6.3		3.[illegible] E		
7	4.9	5.8	4.9	10	7.1	14	5.0	5.2				
8	4.9	6.3	4.9	11	7.1	13	4.4	4.3				
9	4.5	5.3	4.9	14	7.0	14	4.3	5.6				
10	4.9	6.3	6.9	18	9.4	13	3.8	5.0				3.0 E
11	4.5	5.3	8.0	13	8.1	13	4.5	4.1				
12	4.5	6.3	6.3	11	8.1 E	14	4.0	4.9				
13	6.9	6.3	7.4	12	8.1 E	13	3.2	4.0				
14	7.4	7.4	8.0 E	9.5	8.1 E	14	3.8	5.2				
15	8.0	6.3	8.0 E	11	9.2	13	3.3	6.1				
16	9.4	6.3	8.0 E	8.1	31	12	3.2	7.7				
17	10	6.3	8.7	8.4	40	12	3.1	8.3	[illegible] E		[illegible] E	
18	10	8.0	8.7	9.4	34	12	2.7	8.8				
19	10	8.7	8.7	7.2	25	11	2.6	7.5		2.8 E		
20	10	9.4	9.4	7.2 E	21	12	2.6	5.8				4. E
21	11	7.4	9.4	7.2 E	20	11	2.0	5.7				
22	6.9	6.9	10	6.8	16	10	2.2	9.1				
23	8.7	6.9	9.4	6.7	14	9.5	2.1	25				
24	12	5.8	8.7	9.1	15	10	1.6	20				
25	10	4.1	9.4	12	14	9.9	1.3 E	14				
26	10	5.3	7.4	11	14	9.0	1.9 E	9.4				
27	9.4	5.3	10	9.6	1	8.8	2.0 E	13				
28	7.4	5.3	10	8.9	17	8.7	2.5 E	9.3				
29	8.0	5.3	8.0	8.2	—	8.5	3.3 E	7.3				
30	8.0	5.8	8.7	8.1	—	7.7	3.5 E	6.1				
31	6.9	—	8.7	8.7	—	7.6	—	6.0				
Mean	7.2	6.5	7.4	10.0	14.1	12.6	3.8	7.7	[illegible]	3.0	2.6	3.5
Ac-Ft.	441	386	456	616	785	777	227	476	230	19[illegible]	160	[illegible]11

E — Estimated NR — No Record Total Discharge in Acre-Feet 4948

TABLE 366

DAILY MEAN DISCHARGE
BLACKWOOD CREEK NEAR TAHOE CITY

In second feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2	1.0	4.3	3.9	6.3	11	25	69	—	5.9	1.1	0.1
2	2.6	1.0	4.3	3.5	5.9	12	34	48	—	5.4	1.1	0.2
3	2.9	1.2	4.3	3.9 E	5.9	14	41	39	[illegible] E	5.0	1.3	0.3
4	2.9	1.8	4.3	3.9 E	5.9	15	59	33	—	4.6	1.1	0.1
5	2.9	1.8	4.3	3.9 E	5.9	14	68	31	—	3.9	0.9	0.2
6	3.2	2.1	3.9	4.3 E	5.9	15	69	31	[illegible]	3.5	0.7	0.4
7	3.2	1.8	3.9	4.3 E	5.4	16	63	34	[illegible]	3.2	0.7	0.3
8	3.5	1.8	3.9	5.5	—	17	52	48	48	2.9	0.7	0.2
9	3.9	1.8	3.9	19	—	18	50	57	44	2.9	0.5	0.2
10	3.5	2.9	3.9	24	—	17	53	65	41	2.6	0.5	0.2
11	3.9	3.2	3.9	22	6.0 E	17	62	83	43	2.3	0.4	0.3
12	1.6	3.2	3.2	48	—	18	63	99	44	3.9	0.4	0.4
13	0.2	3.2	3.2	29	—	22	63	101	43	4.6	0.4	0.9
14	0.2	6.8	3.2	16	—	23	59	[illegible]	38	4.6	0.3	1.3
15	0.3	3.5	2.9	12	18	21	57	[illegible]	33	4.6	0.7	1.7
16	0.4	2.9	2.9	11	79	21	54	[illegible]	30	—	0.7	1.7
17	0.5	2.6	2.9	11	86	24	52	[illegible]	27	—	0.9	1.7
18	0.8	2.6	2.3	9.9	69	27	48	—	27	—	0.7	9.7
19	1.0	4.3	2.1	9.9	62	27	48	—	27	[illegible] E	0.9	4.1
20	1.0	4.3	2.1	7.8	39	26	50	—	24	—	1.5	3.0
21	1.2	4.3	2.3	7.8	14	26	52	—	21	—	1.5	2.3
22	1.2	4.3	2.6	7.8	13	26	54	—	18	—	1.5	2.0
23	1.2	4.3	2.9	7.3	12	23	56	—	16	—	1.1	1.7
24	1.2	4.3	2.6	7.3	11	21	63	E	14	[illegible]	2.6	1.5
25	1.2	4.3	3.2	7.8	9.9	19	65	—	13	[illegible]	2.0	1.3
26	1.2	4.3	3.2	7.8	11	21	53	—	12	[illegible]	0.7	1.3
27	1.2	4.6	4.3	7.8	9.9	21	45	—	11	1.7	0.9	1.3
28	1.2	4.6	3.5	7.3	9.9	21	48	—	8.8	1.7	0.5	1.3
29	1.2	5.0	3.5	6.8	—	20	59	—	7.8	1.5	0.3	1.1
30	1.2	4.3	4.3	6.8	—	21	71	—	6.8	1.3	0.3	1.1
31	1.2	—	4.3	6.8	—	21	—	—	—	1.3	0.4	—
Mean	1.8	3.3	3.4	10.8	18.8	19.8	54.5	61.0	34.1	3.4	0.9	1.4
Acr-Ft.	109	195	211	663	1045	1220	3245	3751	[illegible]	210	54	83

E — Estimated NR — No Record

Total Discharge in Acre-Feet 12820

TABLE 367

DAILY MEAN DISCHARGE
TROUT CREEK NEAR TAHOE VALLEY

In second feet

Date	1958			1959								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	—	—	—	—	—	31	42	25	12 E	7.2	5.4
2	18	—	19 E	—	—	—	34	32	25	10 E	6.6	5.6
3	18	17 E	—	—	—	—	34	27	27	9.8 E	7.2	5.4
4	18	—	20	15 E	—	—	37	26	28	9.8 E	7.2	5.4
5	18	18	19	—	—	—	39	27	26	8.5 E	6.0	6.0
6	18	17	19	—	—	—	39	28	29	7.8 E	2.5	7.2
7	17	18	18	—	—	E	38	29	29	7.8 E	4.2	6.6
8	17	19	18	—	18 E	—	35	32	27	7.2 E	5.4	6.6
9	17	18	19	28	—	—	34 E	32	26	6.6	5.4	6.6
10	17	22	19	40	—	—	33	33	24	6.6 E	5.4	6.0
11	17	20	19	26	—	—	34	36	23	6.0 E	4.8	6.0
12	17	19	19	24	—	—	35	39	23	5.4 E	4.2	5.4
13	17	19	17	23	—	28	35	46	22	5.4 E	6.6	6.6
14	16	25	16	20	—	28	35	35	24	5.4 E	6.0	6.6
15	16	—	18	19	—	27	34	31	30	6.0 E	6.0	7.2
16	—	—	18	19	70 E	28	33	29	30	6.6 E	6.6	7.8
17	—	18 E	17	18	61 E	29	33	28	29	5.4 E	6.6	8.5
18	—	—	16	18	26	29	32	26	26	6.0 E	6.6	39
19	—	25	15	17	24	29	31	24	19	7.2 E	6.6	24
20	—	21	16	17 E	25	28	34	24	19 E	7.2 E	6.6	12
21	—	20	15	17 E	—	29	33	24	17 E	7.2 E	7.2	11
22	—	20	15	17	—	29	31	33	14 E	6.6 E	7.2	10
23	17 E	20	15	16	[illegible] E	28	29	34	14 E	7.2 E	6.6	10
24	—	21	14	26	—	28	32	38	14 E	7.8 E	7.8	9.8
25	—	21	16	39	[illegible] E	29	33	41	13 E	7.2	6.6	9.1
26	—	20	15	20	—	29	32	34	12 E	7.8	4.8	8.5
27	—	19	—	16	22 E	28	28	27	12 E	7.2	6.6	7.8
28	—	19	—	18	—	28	27	26	12 E	7.2	7.8	7.8
29	—	19 E	15 E	—	—	28	30	25	12 E	7.2	7.2	7.8
30	—	19 E	—	18 E	—	30	36	23	11 E	7.2	6.6	9.1
31	—	—	—	—	—	30	—	24	—	7.2	6.0	—
Mean	17.1	19.[illegible]	16.9	19.[illegible]	[illegible].0	26.0	33.3	30.8	21.4	7.3	6.[illegible]	9.1
Acr-Ft.	1053	1144	1041	1218	1275	1599	1985	1894	1273	449	381	543

E — Estimated NR — No Record

Total Discharge in Acre-Feet 13860

TABLE 368

DAILY MEAN DISCHARGE
UPPER TRUCKEE RIVER NEAR MEYERS

In second feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.4	7.8	7.8	7.5	—	16	47	163	104	22	5.0	6.0
2	8.1	7.8	7.8	7.3	—	18	62 E	109	113	21	4.6	5.8
3	7.8	7.5	8.1	8.1	1[illegible] E	20	77 E	88	117	21	4.6	5.6
4	7.8	7.5	8.4	8.1	—	21	99 E	78	114	19	4.6	5.2
5	7.5	7.5	8.4	8.1	—	22	117 E	77	116	18	4.6	5.0
6	7.5	7.5	8.4	8.1	—	22	128 E	76 E	122	16	4.4	4.8
7	7.5	7.5	8.1	8.4	1[illegible]	24	128	86 E	100	15	4.4	4.6
8	7.5	7.3	7.8	8.1	1[illegible]	25	103	104	91	14	4.8	4.4
9	7.5	6.8	7.8	21	—	26	80 E	120	83	13	4.8	4.0
10	7.5	10	7.8	49	—	26	87 E	145	80	13	4.4	3.6
11	7.3	8.6	8.1	41	13 E	27	101 E	173	82	12	4.0	3.6
12	7.3	8.1	8.4	37	—	29	116 E	207	83	12	3.8	3.6
13	7.3	8.4	7.5	38	—	33	120	210	82	12	3.6	4.2
14	7.3	12	7.0	26	—	35	110	169	74	11	3.6	3.8
15	7.0	8.1	7.0	23	1[illegible]	35	100	147	65	10	3.6	4.0 E
16	7.0	8.6	7.3	21	28	34	97	133	60	9.9	3.6	4.0 E
17	7.0	9.2	7.0	19	42	36	96	122	57	9.5	3.6	4.0 E
18	7.3	9.5	7.0	18	31	38	91	107	56	8.9	3.6	13
19	7.8	10	6.3	18	26	40	90 E	99	54	8.6	3.8	19
20	7.3	10	6.3	17	22	39	97 E	96	52	8.1	4.0	11
21	7.3	9.9	6.8	18	19	42	96 E	93	50	7.5	4.0	6.8
22	7.3	9.5	7.3	16	17	44	101	99	45	7.5	4.0	5.8
23	7.8	9.2	7.3	14	16	42	107	97	39	9.2	3.8	5.2
24	8.1	8.9	5.8	14	17	39	117	106	36	7.8	4.8	5.0
25	7.8	8.9	7.3	16	18	36	124	120	35	7.0	4.6	5.0
26	7.8	9.2	7.0	16	17	38	110	111	32	6.5	4.2	4.4
27	8.1	9.2	7.3	15	15	38	100	96	30	5.8	4.0	4.4
28	8.1	8.6	7.8	14	15	38	99	92	27	5.6	3.8	4.2
29	7.8	8.4	7.3	—	—	37	120	91	25	5.6	3.6	4.0
30	7.8	8.1	7.8	15 E	—	39	173	91	22	5.4	3.6	4.0
31	7.5	—	7.3	—	—	42	—	97	—	5.2	4.6	—
Mean	7.6	8.7	7.5	17.9	17.0	32.3	103	116	68.2	11.2	4.1	5.6
Ac-Ft.	466	515	459	1098	944	1985	6135	7144	4058	688	255	333

E — Estimated NR — No Record

Total Discharge in Acre-Feet 24080

TABLE 369

STREAM FLOW MEASUREMENTS AT MISCELLANEOUS SITES
Measurements of streamflow at points other than gaging stations or at points where flow has not been computed are listed in the following table

Lahontan Area

Stream	Tributary	Location	Measurements		
			Date	Gage Height	Discharge (c.f.s.)
Eagle Lake Tunnel nr Susanville (A)	Willow Creek		3-12-59	6.62	1.87 (B)
			4-21-59	6.64	1.97 (B)
			4-21-59	6.64	6.41 (C)

(A) Referred to Recorder Station "Eagle Lake near Susanville".
(B) Measured 150 feet below tunnel entrance.
(C) Measured 75 feet below tunnel outlet.

PLATES

Kern
R.
230
231
232
233
234
235
A
R
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N
Y
O
Independence
River
10
0
10
20

PLATE 1

SURFACE WATER MEASUREMENT STATIONS

NORTH COASTAL AREA

1 Little Shasta River near Montague
2 Moffett Creek near Fort Jones
3 Canyon Creek near Kelsey Creek Guard Station
4 Shackleford Creek near Mugginsville
5 Willow Creek near Gazelle
6 Shasta River near Weed
7 Etna Creek near Etna
8 Sugar Creek near Callahan
9 East Fork Scott River at Callahan
10 South Fork Scott River near Callahan
11 North Fork Trinity River at Helena
12 Weaver Creek near Douglas City
13 Browns Creek near Douglas City
14 Big Creek near Hayfork

CENTRAL VALLEY AREA

1 Big Sage Reservoir near Alturas
2 Pit River below Alturas
3 Pine Creek near Alturas
4 South Fork Pit River near Jess Valley
5 Turner Creek near Canby
6 Rush Creek near Adin
7 Ash Creek at Adin
8 Butte Creek near Adin
9 Willow Creek near Adin
10 Pit River at Pittville
11 Fall River near Dana
12 Sacramento River near Mount Shasta
13 Hat Creek near Cassel
14 Burney Creek near Burney
15 Little Cow Creek near Ingot
16 Shasta Lake
17 Salt Creek near Bella Vista
18 Sacramento River at Keswick
19 Sacramento River near Redding
20 Clear Creek near Igo
21 North Fork Cottonwood Creek near Igo
22 Sacramento River at Balls Ferry
23 Battle Creek near Cottonwood
24 Cottonwood Creek near Cottonwood
25 Dry Fork S.F. Cottonwood Creek near Cottonwood
26 South Fork Cottonwood Creek near Cottonwood
27 Sacramento River near Red Bluff
28 Antelope Creek near Red Bluff
29 Sacramento River at Red Bluff
30 Lights Creek near Taylorsville
31 Wolf Creek at Greenville
32 Indian Creek near Taylorsville
33 Red Clover Creek near Genesee
34 Red Bank Creek near Red Bluff
35 North Fork Mill Creek near Los Molinos
36 Mill Creek near Los Molinos
37 Deer Creek near Vina
38 Spanish Creek near Quincy
39 Little Last Chance Creek near Chilcoot
40 Middle Fork Feather River near Portola
41 Smithneck Creek near Loyalton
42 Miller Creek near Sattley
43 Webber Creek near Sierraville
44 Sacramento River at Vina Bridge
45 Thomes Creek at Paskenta
46 Sacramento River at Hamilton City
47 Big Chico Creek near Chico
48 Little Chico Creek near Chico
49 Butte Creek near Chico
50 Butte Creek near Durham
51 Big Chico Creek at Chico
52 Lindo Channel near Chico
53 Stony Creek at St. John
54 Stony Creek near Hamilton City
55 Sacramento River at Ord Ferry
56 Feather River near Oroville
57 Sacramento River at Butte City
58 Feather River near Gridley
59 Sutton Weir Spill to Butte Basin
60 Sacramento River opposite Moulton Weir
61 Stone Corral Creek near Sites
62 Colusa Weir Spill to Butte Basin
63 Deer Creek near Nevada City
64 Yuba River at Englebright Dam
65 Colusa Basin Drain at Highway 20
66 Sacramento River at Colusa
67 Sacramento River at Butte Slough Outfall Gates
68 Butte Slough at Outfall Gates
69 Butte Slough at Mawson Bridge
70 Sutter Bypass at Long Bridge
71 Wadsworth Canal at Butte House Road
72 Feather River at Yuba City
73 Yuba River near Marysville
74 Sutter Bypass at State Pumping Plant 3
75 Sacramento River at Meridian
76 Middle Creek near Upper Lake
77 Clover Creek near Upper Lake
78 Scott Creek near Lakeport
79 Bear Creek near Rumsey
80 Colusa Basin Drain near College City
81 R. D. 70 Drainage to Sacramento River
82 Tisdale Weir Spill to Sutter Bypass
83 Tisdale Bypass at R. D. 1660 Pumping Plant
84 Sutter Bypass at State Pumping Plant 2
85 Feather River below Shanghai Bend
86 Dry Creek near Wheatland
87 Wolf Creek near Wolf
88 Bear River near Colfax
89 Bear River near Wheatland
90 Sacramento River below Tisdale Weir
91 Sacramento River below Wilkins Slough
92 Sutter Bypass at State Pumping Plant 1
93 Feather River at Nicolaus
94 Coon Creek at Highway 99E
95 Auburn Ravine at Lincoln
96 Sacramento River above R. D. 108 Pumping Plant
97 R. D. 108 Drainage to Sacramento River
98 R. D. 787 Drainage to Sacramento River
99 R. D. 787 Drainage to Colusa Basin Drain
100 Colusa Basin Drain at Knights Landing
101 Sacramento River at Knights Landing
102 R. D. 1500 Drainage to Sacramento Slough
103 R. D. 1001 Drainage to Natomas Cross Canal
104 Linda Creek near Roseville
105 Sacramento River at Verona
106 Sacramento River at Fremont Weir, East End
106-107 Fremont Weir Spill to Yolo Bypass
107 Sacramento River at Fremont Weir, West End
108 Sacramento Slough at Sacramento River
109 Cache Creek at Yolo
110 Yolo Bypass near Woodland
111 Folsom Reservoir
112 American River at Fair Oaks
113 R. D. 1000 Drainage to Sacramento River (Pritchard Lake)
114 Sacramento River opposite Sacramento Weir
115 R. D. 1000 Drainage to Sacramento River (Second Bannon Slough)
116 American River at Garden Highway
117 American River at Elvas
118 Yolo Bypass above Sacramento Bypass
114-119 Sacramento Weir Spill to Yolo Bypass
119 Sacramento River at Sacramento Weir
120 Sacramento River at Sacramento
121 American River at Sacramento
122 Pleasants Creek near Winters
123 Putah Creek below Winters
123A Putah Creek near Winters
124 Putah Creek above Davis
125 South Fork Putah Creek near Davis
126 Yolo Bypass at Lisbon (New Station)
127 Sacramento River near Freeport
128 Cosumnes River at Michigan Bar
129 Sacramento River at Clarksburg
130 Sacramento River at Snodgrass Slough
131 Cosumnes River at McConnell
132 Yolo Bypass at Liberty Island
133 Miner Slough at Five Points
134 Snodgrass Slough at Twin Cities Road Bridge
135 Delta Cross Channel at Walnut Grove
136 Yolo Bypass at Lindsey Slough
137 Sacramento River at Walnut Grove
138 South Fork Mokelumne River at New Hope Bridge
139 Mokelumne River near Thornton
140 Sacramento River at Rio Vista
141 Sacramento River at Isleton
142 Suisun Bay at Benicia Arsenal
143 Sacramento River at Collinsville
144 Threemile Slough at Sacramento River
145 Threemile Slough at San Joaquin River
146 Georgiana Slough at Mokelumne River
147 San Joaquin River at San Andreas Landing
148 Mokelumne River at Woodbridge
149 Mokelumne River near Clements
150 Calaveras River at Jenny Lind
151 Calaveras River at Bellota
152 San Joaquin River at Venice Island
153 San Joaquin River at Antioch
154 Contra Costa Canal near Oakley
155 Old River at Holland Tract
156 Old River near Rock Slough
157 Rock Slough at Contra Costa Canal Intake
158 Middle River at Bacon Island
159 San Joaquin River at Rindge Pump
160 Stockton Ship Channel at Burns Cutoff
161 McLeod Lake at Stockton
162 Stockton Diverting Canal at Stockton
163 Calaveras River near Stockton
164 Mormon Slough at Bellota
165 Duck Creek Diversion near Farmington
166 Littlejohns Creek at Farmington
167 Duck Creek near Stockton
168 French Camp Slough near French Camp
169 South San Joaquin I. D. Drain 11 near Manteca
170 San Joaquin River at Grandt Bridge
171 Old River at Mansion House
172 Middle River at Borden Highway
173 Old River at Clifton Court Ferry
174 Delta Mendota Canal near Tracy
175 Grant Line Canal at Tracy Road Bridge
176 Old River near Tracy Road Bridge
177 Middle River at Mowry Bridge
178 Tom Paine Slough above Mouth
179 San Joaquin River at Mossdale Bridge
180 Stanislaus River at Orange Blossom Bridge
181 Stanislaus River at Riverbank
182 South San Joaquin I. D. Drain 11 near Manteca
183 Stanislaus River near Mouth
184 San Joaquin River near Vernalis
185 San Joaquin River at Maze Road Bridge
186 Stanislaus River at Ripon
187 Dry Creek near Modesto
188 Tuolumne River at Hickman Bridge
189 Tuolumne River at Roberts Ferry Bridge
190 Tuolumne River at La Grange Bridge
191 Maxwell Creek at Coulterville
192 North Fork Merced River near Coulterville
193 Tuolumne River at Modesto
194 Tuolumne River at Tuolumne City
195 San Joaquin River at Hetch Hetchy Aqueduct Crossing
196 Burkhardt Drain near Grayson
197 San Joaquin River at Grayson
198 Westley Wasteway near Grayson
199 Del Puerto Creek near Grayson
200 San Joaquin River at Patterson Bridge
201 Orestimba Creek near Crows Landing
202 San Joaquin River near Newman
203 Newman Wasteway near Newman
204 San Joaquin River at Fremont Ford Bridge
205 Merced River at Cressey
206 Merced River below Snelling
207 Burns Creek below Burns Reservoir
208 Bear Creek near Cathay
209 Burns Creek at Hornitos
210 West Fork Chowchilla River near Mariposa
211 Big Creek Diversion near Fish Camp
212 Middle Fork Chowchilla River near Nipinnawasee
213 East Fork Chowchilla River near Ahwahnee
214 Striped Rock Creek near Raymond
215 Mariposa Creek near Cathay
216 Bear Creek below Bear Reservoir
217 Owens Creek below Owens Reservoir
218 Mariposa Creek below Mariposa Reservoir
219 San Joaquin River near Dos Palos
220 Millerton Lake
221 Panoche Drain near Dos Palos
222 Helm Ranch Drain at Firebaugh Wasteway near Firebaugh
223 Drain at Head of Firebaugh Wasteway near Firebaugh
224 San Joaquin River near Mendota
225 San Joaquin River at Whitehouse
226 South Fork Kings River below Empire Weir 2
227 Cross Creek below Lakeland Canal 2
228 Tulare Lake
229 Elk Bayou near Tulare
230 Tule River below Porterville
231 Friant-Kern Canal Delivery to Tule River
232 Friant-Kern Canal Delivery to Porter Slough
233 Porter Slough near Porterville
234 Porter Slough at Porterville
235 North Fork Tule River at Springville
236 Kern River near Bakersfield

LAHONTAN AREA

1 Bidwell Creek near Fort Bidwell
2 Cedar Creek at Cedarville
3 Eagle Creek at Eagleville
4 Pine Creek near Susanville
5 Eagle Lake near Susanville
6 Willow Creek near Litchfield
7 Gold Run Creek near Susanville
8 Long Valley Creek near Doyle
9 Blackwood Creek near Tahoe City
10 Trout Creek near Tahoe Valley
11 Upper Truckee River near Meyers

LEGEND
1 NORTH COASTAL AREA
2 SAN FRANCISCO BAY AREA
3 CENTRAL COASTAL AREA
4 SOUTH COASTAL AREA
5 CENTRAL VALLEY AREA
6 LAHONTON AREA
7 COLORADO DESERT AREA
(NOT SHOWN ON THIS PLATE)
AREA OF MEASUREMENT OF DIVERSIONS
SURFACE WATER MEASUREMENT STATIONS
STREAM FLOW
WATER STAGE
N
O R E G O N
P A C I F I C
Goose Lake
Big Sage Res.
Alturas
Clear Lake Res.
Eagle Lake
Susanville
Honey Lake
Long Valley
Lake Tahoe
Markleeville
Quincy
Downieville
Nevada City
Placerville
Folsom Res.
Auburn
Marysville
Yuba City
Chico
Oroville
Lake Almanor
Fall River
Burney
Shasta Lake
Redding
Yreka
Weaverville
Red Bluff
Colusa
Willows
Woodland
SACRAMENTO
Fairfield
Napa
Santa Rosa
San Rafael
Lakeport
Clear Lake
Ukiah
Eureka
Crescent City
Sacramento
Feather
River
Trinity
Mad
Eel
Klamath
Pit
Cache
Russian
Putah
Cottonwood
Thomas Creek
Stony Creek
Deer Creek
Big Chico Creek
Butte Creek
Little Shasta R.
Shasta
Scott
Mill Creek
Indian Creek
Middle Fork Feather
North Fork Feather
Yuba
Bear
Dry Creek
Colusa Basin Drain
Pajaro
Napa
Sacramento
Tuolumne
Stanislaus
Merced
Fresno
Kings
Tulare
Kern
Inyo
Mono
Alpine
Amador
Calaveras
Mariposa
Madera
Mono
Inyo
Tehama
Glenn
Colusa
Yolo
Solano
Napa
Sonoma
Marin
Lake
Mendocino
Humboldt
Trinity
Shasta
Siskiyou
Modoc
Lassen
Plumas
Sierra
Nevada
Placer
El Dorado
Alpine
Amador
Calaveras
Tuolumne
Mariposa
Madera
Fresno
Kings
Tulare
Kern
Inyo
Mono
Alpine
Del Norte
Sacramento
Sacramento
Sacramento
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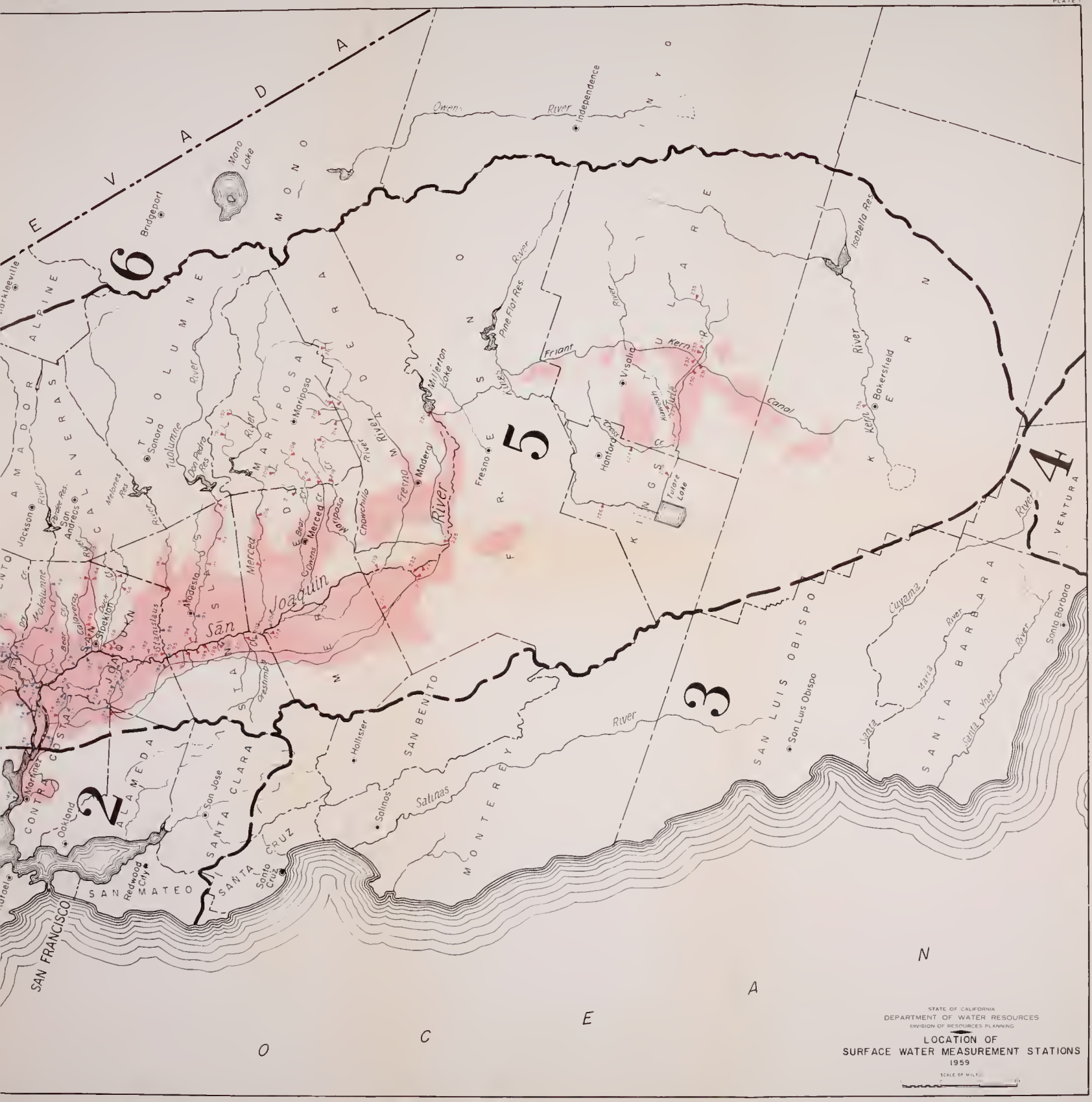
5


STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
LOCATION OF
SURFACE WATER MEASUREMENT STATIONS
1959
SCALE OF MILES
NEVADA
OCEAN
6
5
4
3
2
Bridgeport
Mono Lake
Independence
Owens River
Markleeville
Jackson
Sonora
Mariposa
Merced
Madera
Fresno
Visalia
Hanford
Bakersfield
Tulare Lake
Millerton Lake
Pine Flat Res.
Isabella Res.
San Luis Obispo
Santa Barbara
Stockton
Modesto
San Jose
Oakland
Redwood City
Santa Cruz
Hollister
Salinas
San Joaquin
Merced River
Tuolumne River
Stanislaus River
Mokelumne River
Calaveras River
Fresno River
Chowchilla River
Mariposa River
Kern River
Friant Canal
Cuyama River
Santa Maria River
Santa Ynez River
Salinas River
Owens River
San Andreas Res.
Pardee Res.
Melones Res.
San Pedro Res.
AMADOR
CALAVERAS
TUOLUMNE
MARIPOSA
MADERA
FRESNO
TULARE
KERN
KINGS
SAN LUIS OBISPO
SANTA BARBARA
VENTURA
SAN BENITO
MONTEREY
SANTA CRUZ
SANTA CLARA
SAN MATEO
SAN FRANCISCO
ALAMEDA
CONTRA COSTA
SAN JOAQUIN
ALPINE
MONO
INYO

TRACT
Slough
PROSPECT
SLOUGH
RYER
ISLAND
GRAND
ISLAND
Ryde
Walnut
Grove
McCORMACK
WILLIAMSON TR
MOKELUMNE
NEW HOPE
TRACT
DRY
CREEK
RIVER
PACIFIC
CANAL RANCH
TRACT
BRACK TRACT
Hog
Sycamore
Beaver
TYLER
ISLAND
NORTH
ISLAND
FORK
TATEN
Rio Vista
Isleton
BRANNAN
MONTEZUMA
1939
1944
6
7

PLATE 2

SALINITY OBSERVATION STATIONS

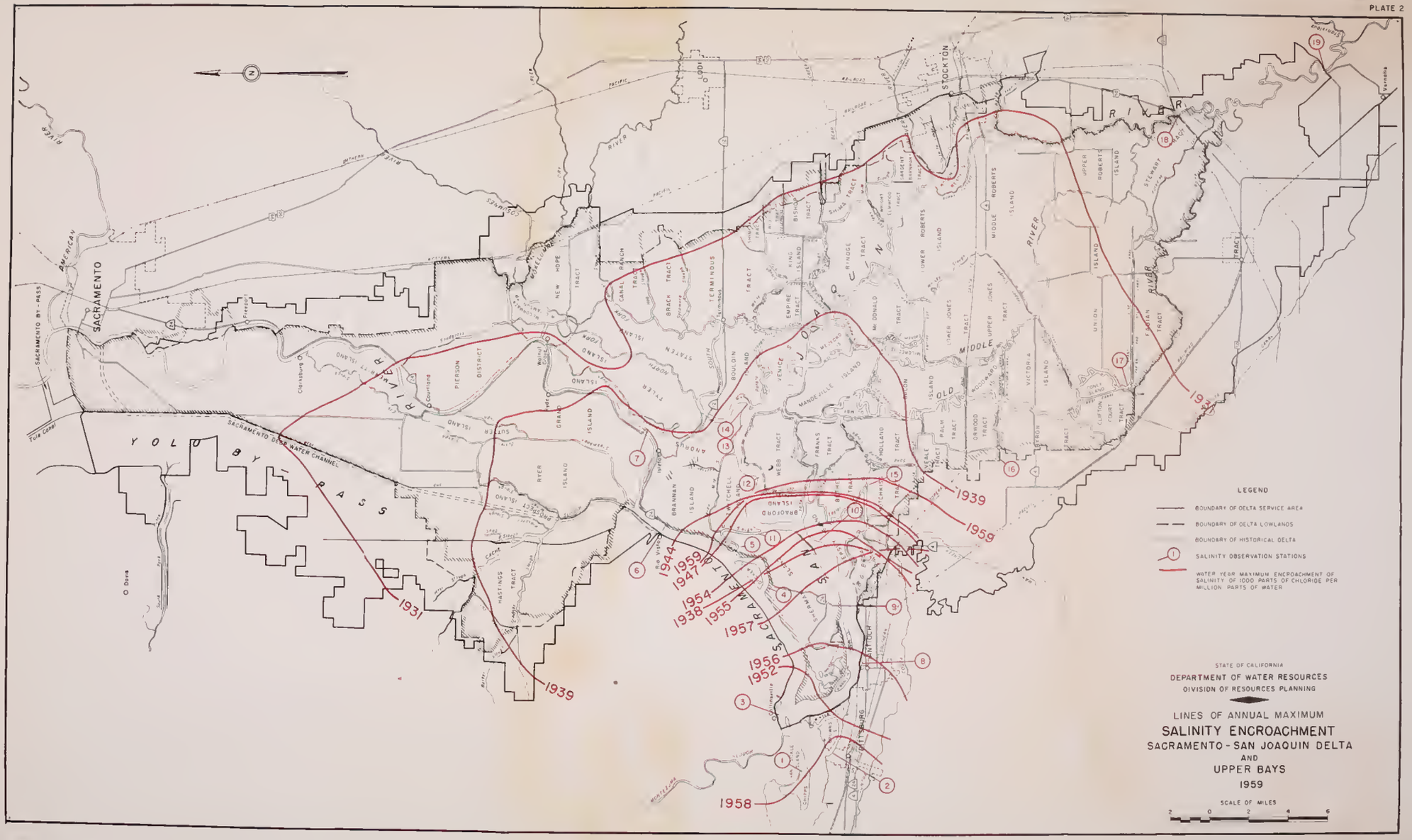
Stations shown on map.

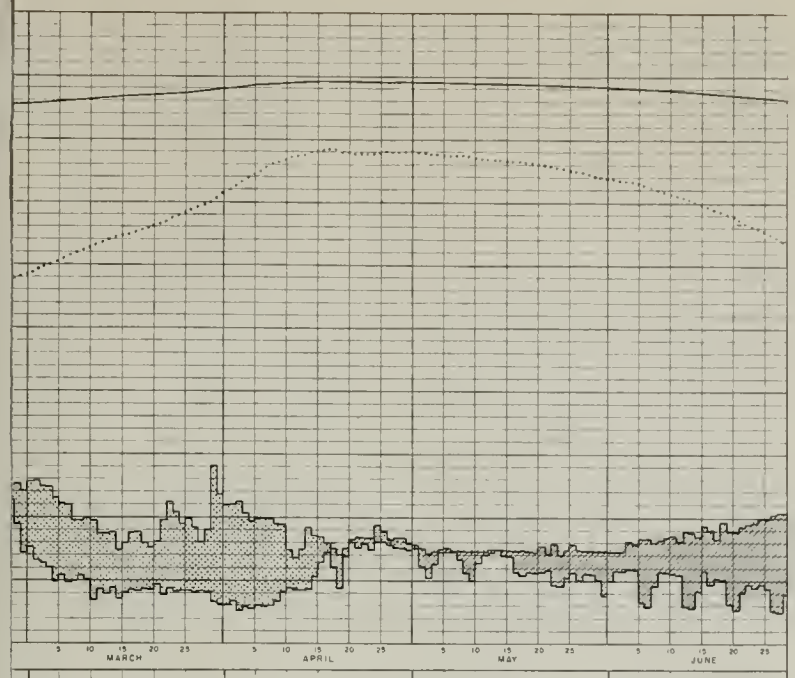
1 Spoonbill Creek
2 Pittsburg
3 Collinsville
4 Emmaton
5 Threemile Slough Bridge
6 Rio Vista Bridge
7 Isleton Bridge
8 Antioch
9 Antioch Bridge
10 Jersey Island
11 Threemile Slough
12 Oulton Point
13 San Andreas Landing
14 Opposite Central Landing
15 Outside Slough
16 East Contra Costa Irrigation Distri
17 Clifton Court Ferry
18 Mossdale Bridge
19 Vernalis

Stations off map:

Point Pinole
Crockett
Benicia
Martinez
West Suisun
Innisfail Ferry
Fort Chicago

Note: For description of station location see Table 2c5.

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MARCH
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APRIL
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MAY
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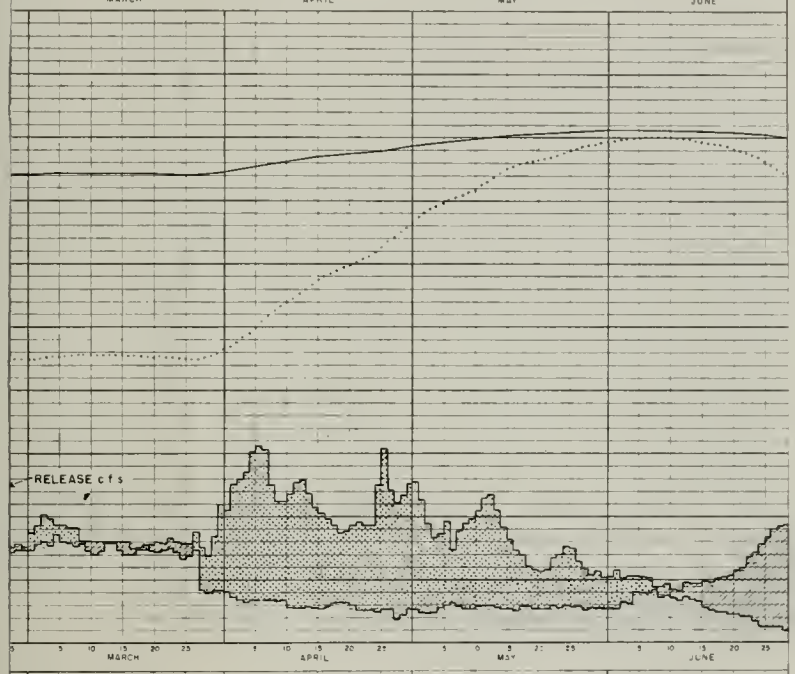
JUNE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MARCH
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APRIL
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MAY
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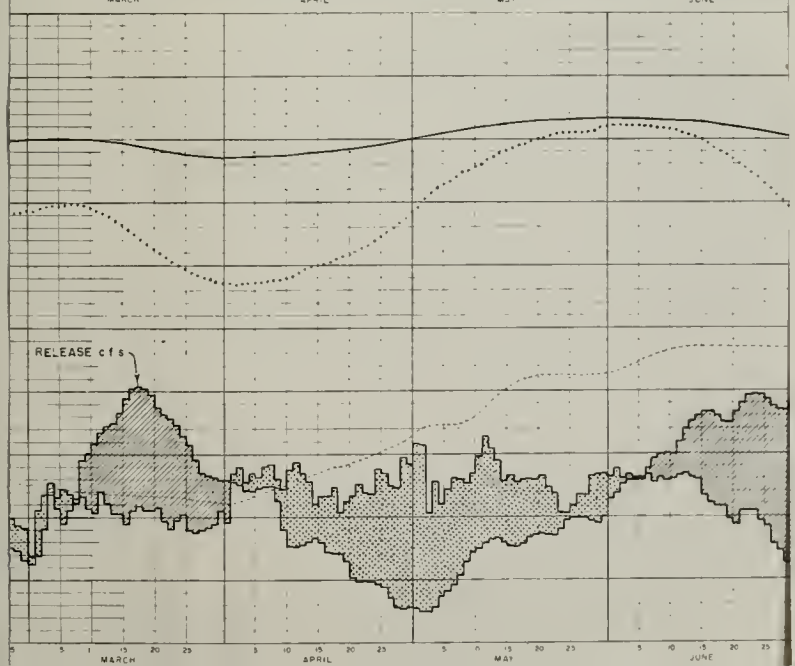
JUNE


RELEASE cfs
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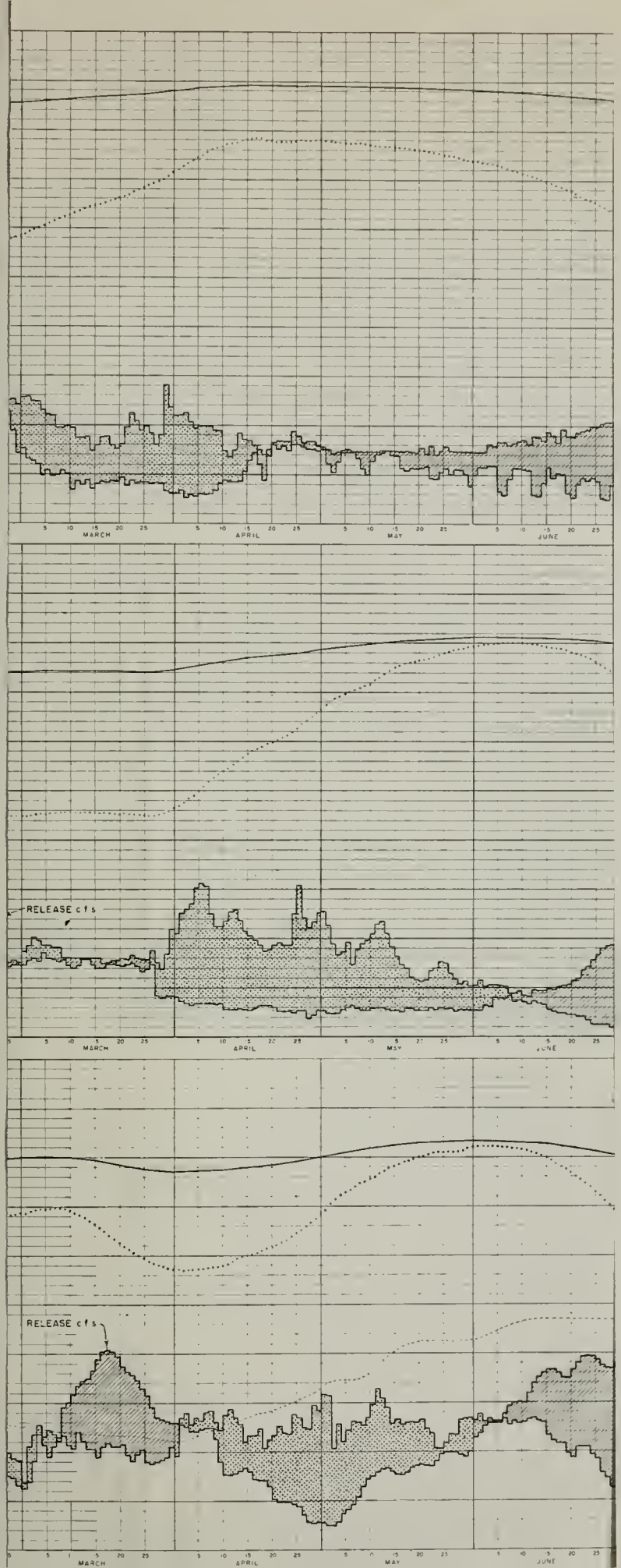
MARCH
APRIL
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RELEASE cfs
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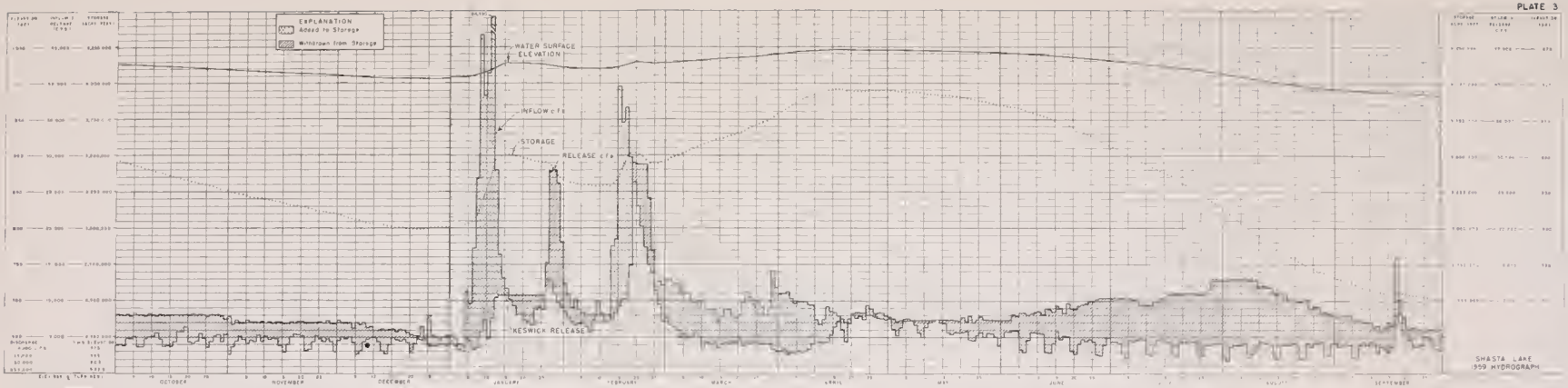
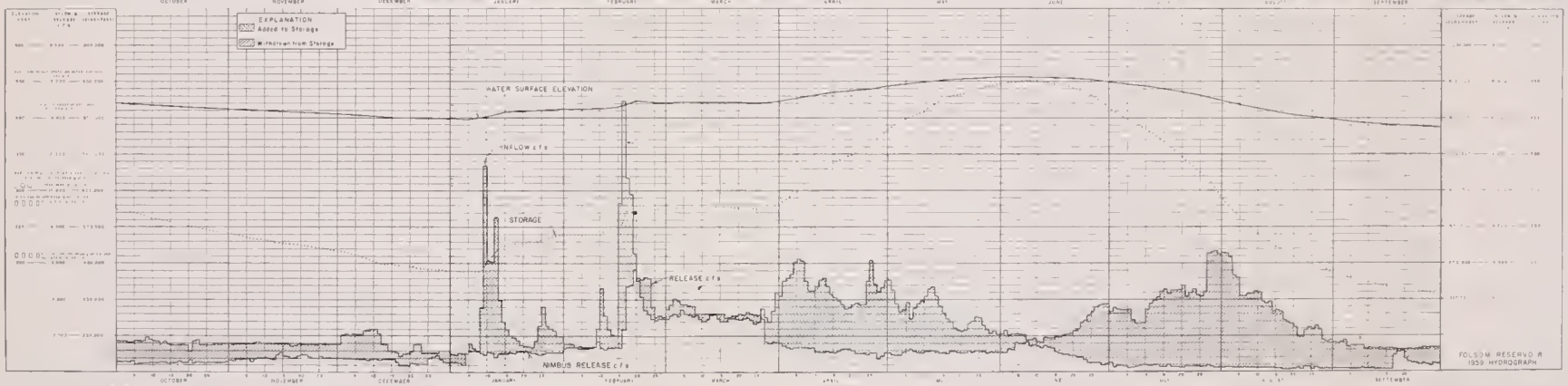
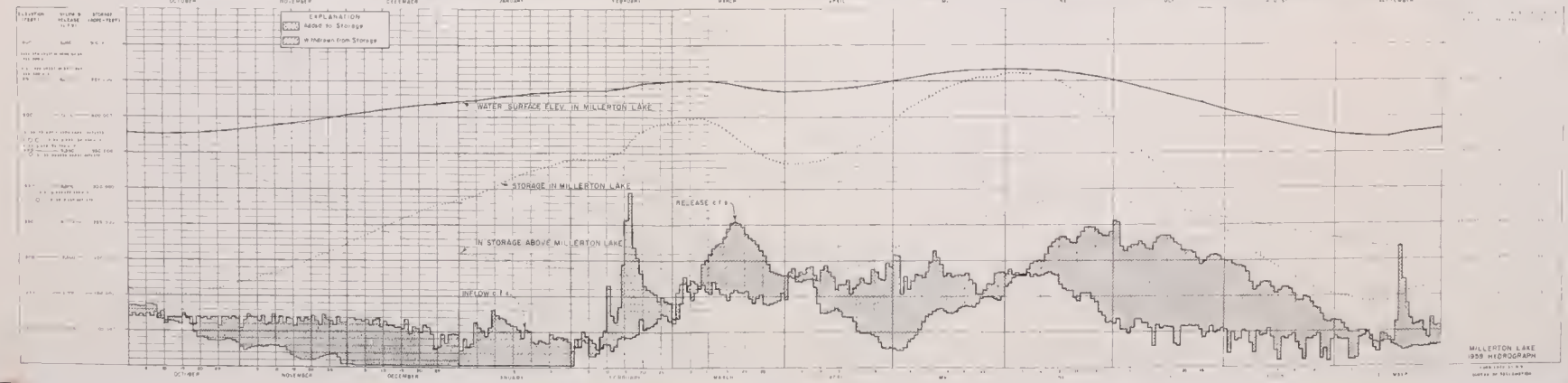
MAY
JUNE



SHASTA LAKE
1959 HYDROGRAPH



FOLSOM RESERVOIR
1959 HYDROGRAPH



MILLERTON LAKE
1959 HYDROGRAPH

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Bulletin.
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A2
no.23:59
[redacted]