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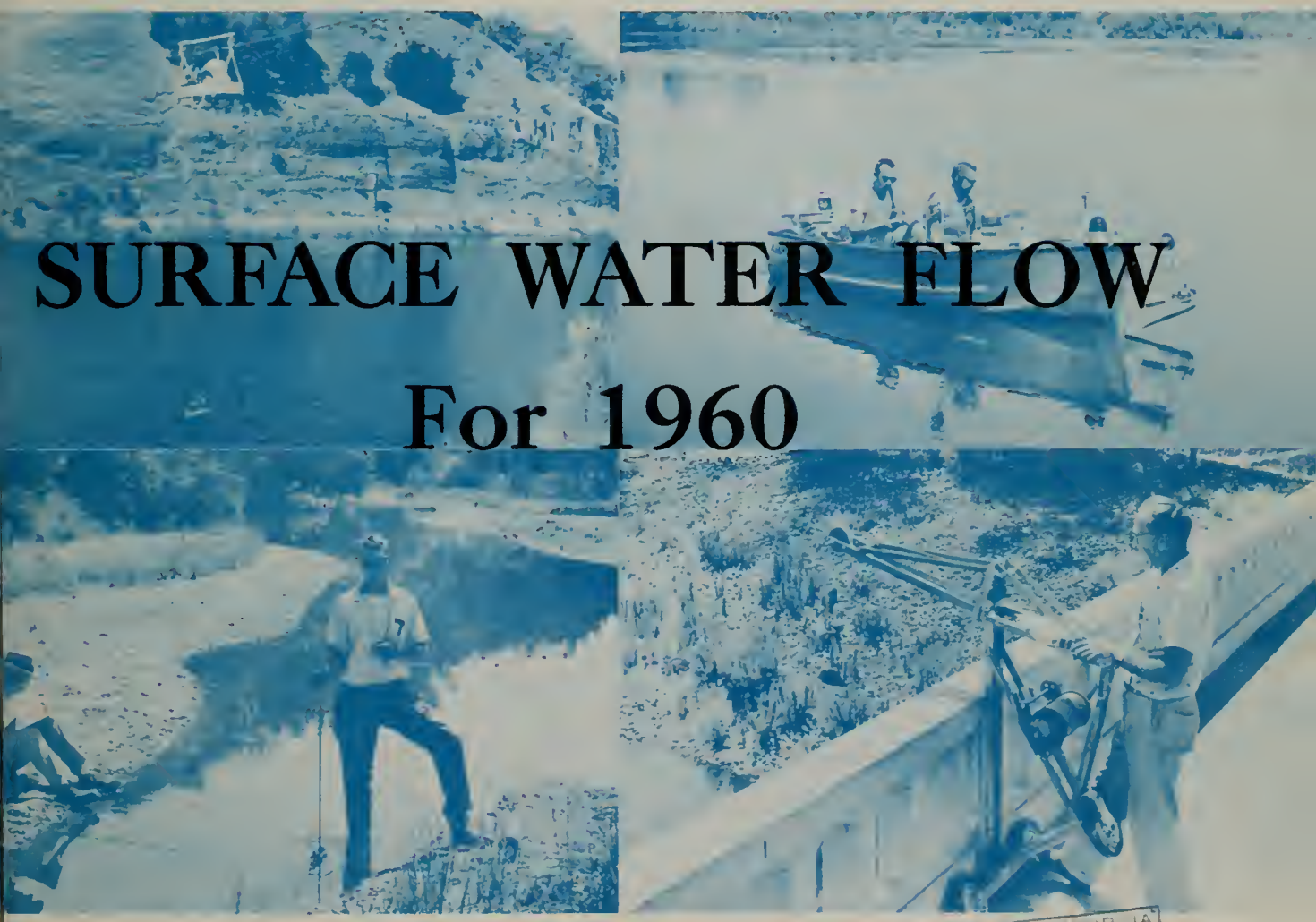

SURFACE WATER FLOW For 1960

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WILLIAM E. WARNE
Director of Water Resources

September, 1961

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING

Bulletin No. 23-60

SURFACE WATER FLOW For 1960

EDMUND G. BROWN
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PUMP DISCHARGE MEASUREMENT

This is a typical pump discharge measurement using a Hoff current meter.

The test is part of a continuous program of the Department's to monitor the water supply and water conditions of the State. Above photo by Department of Water Resources

The cover photo shows four methods of obtaining stream flow discharge measurements. Cover photo by J. L. Clausse.

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Little Cow Creek near Ingot	73		40
Little Last Chance Creek near Chilcoot	93		40
Littlejohn Creek at Farmington	132		40
Mariposa Creek near Cathay	119		40
below Mariposa Reservoir	119		40
Maxwell Creek at Coulterville	128		40
McLeod Lake at Stockton		234	40
Merced River at Cressey	124	273	41
near Livingston		273	41
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Owens Creek below Owens Reservoir	120		45
Panoche Drain near Dos Palos	115		45
Pine Creek near Alturas	66		45
Pit River below Alturas	66		45
at Pittville	70		45
Pleasants Creek near Winters	110		45
Porter Slough at Porterville	141		45
near Porterville	141		46
Putah Creek above Davis	111		46
below Winters	111		46
near Winters		233	46
Reclamation District 70 Drainage to Sacramento River	85		46
108 Drainage to Sacramento River	87		46
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787 Drainage to Sacramento River	88		46
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Sacramento River at Balls Ferry	74		48
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at Butte Slough Outfall Gates		212	48
at Clarksburg		251	48
at Collinsville		271	48
at Colusa		210	48
at Colusa Weir		210	49
near Freeport		253	49
at Fremont Weir East End		218	49
at Fremont Weir West End		218	49
at Hamilton City	78	206	49
at Isleton		262	49
at Keswick		200	49
at Knights Landing		217	49
at Meridian	85	212	50
at Moulton Weir		209	50
opposite Moulton Weir	83	209	50

STREAM FLOW, STAGE, AND STATION DESCRIPTION (continued)

	Page		
	Stream Flow	Stage Daily Mean and Crest	Station Description
CENTRAL VALLEY AREA (continued)			
Sacramento River near Mount Shasta	68		50
at Ord Ferry	82	208	50
at Pritchard Lake		228	50
at Reclamation District 70 Pumping Plant		213	50
above Reclamation District 108 Pumping Plant	87		50
at Red Bluff		202	50
near Red Bluff		202	51
near Redding	72		51
at Rio Vista		267	51
near Rough and Ready Bend		215	51
at Sacramento	106	230	51
at Sacramento Weir		255	51
opposite Sacramento Weir		228	51
at Second Bannon Slough		229	51
at Snodgrass Slough		252	52
at Tisdale Weir		214	52
below Tisdale Weir		214	52
at Verona		227	52
at Vina Bridge	78	205	52
at Walnut Grove		249	52
below Wilkins Slough		215	52
Sacramento Slough at Sacramento River	91		52
Sacramento Weir Spill to Yolo Bypass	103		53
Salt Creek near Bella Vista	73		53
San Joaquin River at Antioch		270	53
at Brandt Bridge		236	53
at Crows Landing Bridge		274	53
near Dos Palos	115		53
at Fremont Ford Bridge		272	53
at Grayson	125	275	54
at Hetch Hetchy Aqueduct Crossing	130		54
at Maze Road Bridge		279	54
near Mendota	113		54
at Mossdale Bridge		235	54
near Newman		274	54
at Patterson Bridge		275	54
at Rindge Pump		240	54
at San Andreas Landing		261	55
at Venice Island		247	55
near Vernalis		282	55
at West Stanislaus I. D. Intake		276	55
at Whitehouse	113		55
Scott Creek near Lakeport	106		55
at Upper Lake		231	55
Shasta Lake	72	306	56
Smithneck Creek near Loyalton	94		57
Snodgrass Slough at Twin Cities Road Bridge		246	57
South Fork Battle Creek near Mineral	76		57
South Fork Cottonwood Creek near Cottonwood	75		57
South Fork Kings River below Empire Weir 2	139		57
South Fork Mokelumne River at New Hope Bridge		244	58
South Fork Pit River near Jess Valley	65		58
South Fork Putah Creek near Davis	112		58
South San Joaquin Irrigation District Drain 11 near Manteca	133		58
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Spanish Creek near Quincy	97		56
Stanislaus River at Koetitz Ranch		281	56
near Mouth	131		56
at Orange Blossom Bridge	130	280	56
at Ripon		281	56
at Riverbank	131	280	57
Stockton Diverting Canal at Stockton	136		57
Stockton Ship Channel at Burns Cutoff		237	57
Stone Corral Creek near Sites	88		57
Stony Creek near Hamilton City		207	58
at St. John		207	58
Striped Rock Creek near Raymond	118		59
Sutter Bypass at Long Bridge		220	59
at Reclamation District 1500 Pumping Plant		219	59
at State Pumping Plant 1		222	59
at State Pumping Plant 2		221	59
at State Pumping Plant 3		221	59
Sutter Creek near Sutter Creek	137		59
Thomes Creek at Paskenta		204	60
Threemile Slough at Sacramento River		268	60
Threemile Slough at San Joaquin River		266	60
Tisdale Bypass at Reclamation District 1660 Pumping Plant		213	60
Tisdale Weir Spill to Sutter Bypass	86		60
Tom paine Slough above Mouth		239	60
Tulare Lake		306	60
Tule River below Porterville	140		61
Tuolumne River at Hickman Bridge	128	277	61
at La Grange Bridge	127	276	61
at Modesto		278	61

STREAM FLOW, STAGE, AND STATION DESCRIPTION (continued)

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	Stream Flow	Stage Daily Mean and Crest	Station Description
CENTRAL VALLEY AREA (continued)			
Tuolumne River at Roberts Ferry Bridge	127	277	61
at Tuolumne City	129	279	61
Turner Creek near Canby	67		61
Wadsworth Canal at Butte House Road	92	220	61
West Fork Chowchilla River near Mariposa	118		62
Westley Wasteway near Grayson	126		62
West Valley Reservoir near Likely		307	63
Willow Creek near Adin	69		62
Wolf Creek near Wolf	100		62
Yolo Bypass at Liberty Island		265	62
at Lindsey Slough		269	62
at Lisbon		260	62
above Sacramento Bypass		232	62
near Woodland		232	63
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Eagle Lake near Susanville		303	287
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Suisun Bay at Benicia Arsenal		301	298
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WILLIAM E. WARNE
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EDMUND G. BROWN
GOVERNOR

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STATE OF CALIFORNIA
Department of Water Resources
SACRAMENTO

September 19, 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. 23-60, "Surface Water Flow for 1960". The basic data concerning water supply, 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, as well as pertinent water supply data gathered under other current programs of the department.

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, stages, and diversions - are presented for time periods related to their occurrence and use: viz., stream flow, for the 1959-60 water year (October 1, 1959, through September 30, 1960); stages, for the period November 1, 1959, through June 30, 1960, encompassing the interval of high water flows occurring in California streams; and diversions, for the diversion period November 1, 1959, through October 31, 1960, which includes the agricultural season of the 1960 calendar year.

ACKNOWLEDGEMENT

A large amount of the basic data presented in this report was 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 basic water resource data by these agencies.

ORGANIZATION

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

EDMUND G. BROWN, Governor
WILLIAM E. WARNE*, Director of Water Resources
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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.

** Paul E. Simpson was in charge of the Susanville field office during the collection of data presented in this report.

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(continued)

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INTRODUCTION

This annual report presents data pertaining to Surface Water Flow in California for the water year October 1, 1959, through September 30, 1960. It contains a record of information collected and assembled by the Department of Water Resources in the Central Valley Area, the North Coastal Area, the San Francisco Bay Area, and the Lahontan Area as shown on Plate 1, "Location of Surface Water Measurement Stations".

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

The objective of this report is to bring together, in a permanent and usable form, all surface flow data gathered by the Department of Water Resources during the 1960 water year. Other relevant data are added for the convenience of the user.

The field work necessary to gather data for this bulletin included (1) construction and maintenance of stream gaging stations, (2) measurements of flows and stages in streams and return flows to these streams, either through drainage pumps or by gravity drains, and (3) determinations of amounts and usages of water diverted by individual users. The amounts of water diverted by various 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 of hours of operation.

The related office work consisted of compilation and computation of field data. The computation of stream flow and drainage required 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 required 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. It is equivalent to 43,560 cubic feet or 325,850 gallons.

Drainage area for a given stream above a given point (for example, a gaging station) is the area enclosed by a topographic divide into 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 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 is the water transpired, evaporated, and used in promoting vegetative growth plus the water evaporated from adjacent soil and water surfaces.

TABLES

The data presented herein in tabular form are divided into six categories: stream flow, flood period stage, lakes and reservoirs, diversions, summary, and supplementary tables. A list of measurements at miscellaneous sites are shown in Tables 17, 181, 363, and 367. A list of stations added or deleted is contained in the "Tables of Additions or Deletions" presented within 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 these agencies. Other tables contain data collected and compiled by the Department of Water Resources, together with material from other agencies. These data have been rounded to the number of significant figures 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 stations are listed between those stations. A stream gaging station is named from the stream and 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 - above	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 for the height or stage of water surface: (1) for streams subject to tidal influences, daily maximum and minimum gage heights; and (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 133 stations for which daily stages are presented in this report, 28 have computed daily mean flow. These data are 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 nearest tenth of a foot.

Daily gage heights, in feet, are tabulated for each day of the period November 1 - June 30. The elevation of the water surface at the gaging station is obtained by adding the gage height readings to the elevation of the gage datum presented in Tables 1, 22, 351, and 364.

Lakes and Reservoirs

Two types of data are presented for Lakes and Reservoirs: (1) daily content in acre feet for Shasta Lake, Folsom Lake, and Millerton Lake; (2) daily stage in feet for all others. Plate 3 consists of hydrographs of Shasta Lake, Folsom Lake, and Millerton Lake.

Diversions

These tables show the water diverted during the period November 1, 1959 - October 31, 1960. While the major use of water is for agriculture, small amounts that are diverted for municipal and industrial use are also 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.

Publication of acreages irrigated has been discontinued in this report.

Summary of 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 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, exports through the Delta-Mendota and Contra Costa Canals, and diversion 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 the acreages. Unit values of consumptive use were derived from experimental work by the University of California and California Extension Service as reported in Bulletin #27 entitled "Variations and Control of Salinity in Sacramento-San Joaquin Delta and Upper San Francisco Bays". Crop acreages are determined by periodic land use surveys. Values used in this report were determined from a survey made in 1955.

Supplementary Tables

The supplementary tables include a description of gaging stations, precipitation data, runoff comparisons, and salinity at selected stations in the Sacramento-San Joaquin Delta.

Gaging Station Description. Tables 1, 22, 351, and 364 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 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 during a given year may be shown as the ratio of the runoff of that year with the average runoff of the stream 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 1959-60 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 1959-60.

Salinity. Table 218 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 one and one-half hours after high-high tide. The observed concentrations of salinity are given in Table 220. The locations of these stations are shown on Plate 2, "Lines of Annual Maximum Salinity Encroachment". The line of salinity encroachment describes the maximum seasonal encroachment of 1000 parts of chlorides per million parts of water. The lines on the plate show conditions during the current water year and other water years of historical interest.

Miscellaneous Tables

Tables 17, 182, 363, and 368, contain tabulations of discharge measurements of stream flow on various streams at locations other than those where continuous recorders are maintained. Table 378 shows a tabulation of corrections to data reported in previous Surface Water Flow bulletins.

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 1960 water year.

TABLE 1

GAOING 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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT.	1959 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
BIG CREEK NEAR HAYFORK																
40 33 11	123 08 35	SE 7 31N 11W	664	8.17	2/ 8/60	1540E	9.25	2/18/58	16030	19950	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	1690	13.51	2/ 8/60	3950E	16.60	2/18/58	37240	42220	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. Stage-discharge relationship at times affected by ice. Drainage area is 71.4 sq. mi. (f)																
CANYON CREEK NEAR KELSEY CREEK GUARD STATION																
41 37 42	123 06 17	SW27 44N 11W	737E	97.72	2/ 8/60				50660	35200	OCT 50-JUL 55 JUN 56-SEP 60	OCT 50-JUL 55 JUN 56-OCT 60	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. Stage-Discharge relationship at times affected by ice. Drainage area is 24.4 sq. mi. Station discontinued Oct. 4, 1960. (f)																
EAST FORK SCOTT RIVER AT CALLAHAN																
41 18 40	122 47 58	SW16 40N 8W	1480	7.51	2/ 8/60	9300	10.46	12/21/55	42120	62540	OCT 52-DATE	OCT 52-DATE	1952		0.00	LOCAL
Station located at old highway bridge, immediately N of Callahan. Stage-discharge relationship at times affected by ice. Drainage area is 114 sq. mi. Operation assumed by U. S. Geological Survey on Oct. 4, 1960. Publication discontinued Sep. 30, 1960. (f)																
ETNA CREEK NEAR ETNA																
41 25 53	122 54 57	NE 6 41N 9W	4040E	10.87	2/ 8/60				36640	24510	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. Stage-discharge relationship at times affected by ice. 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	218	3.29	3/ 7/60				6912	3866	28-NOV 51 8 APR 52-APR 55 SEP 56-DATE	28-NOV 51 8 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	106	2.39	3/ 7/60				4898	3232	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. Stage-discharge relationship at times affected by ice. Drainage area is 69.8 sq. mi. (f)																
NORTH FORK TRINITY RIVER AT HELENA																
40 46 56	123 07 39	SW21 34N 11W	12600	17.44	2/ 8/60	13500	19.66	1/12/59	231700	223400	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL
Station located 1.0 mi. above mouth, 0.6 mi. N of Helena. Stage-discharge relationship at times affected by ice. Drainage area is 151 sq. mi. (f)																

E - Estimated
(s) - Record of stage published
8 - 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			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 CALENDAR YR. IN AC-FT.			PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC T B R. M O.B&M	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
SHACKLEFORD CREEK NEAR MUGGINSVILLE																
41 35 11	123 00 12	SW 9 43N 10W							29280	26300	OCT 50-SEP 55 JUN 56-SEP 60	OCT 50-NOV 55 JUN 56-OCT 60	1956		90.00	LOCAL
Station located 2.8 mi. NW of Mugginsville, 8.4 mi. W of Fort Jones. Tributary to Scott River Stage-discharge relationship at times affected by ice. Drainage area is 17.7 sq. mi. Station discontinued Oct. 4, 1960. (f)																
SHASTA RIVER NEAR WEED																
41 24 30	122 25 50	SW 9 41N 5W	301	14.89	2/ 8/60		16.68	2/24/58	15370	18330	JAN 58-DATE	JAN 58-DATE	1958			LOCAL
Station located 300 ft below Edgewood Road bridge, 2.8 mi. SW of Weed. Stage-discharge relationship at times affected by ice. Drainage area is 26.6 sq. mi. (f)																
SOUTH FORK SCOTT RIVER NEAR CALLAHAN																
41 17 46	122 48 34	SE20 40N 8W	780	4.50	2/ 8/60	7000E	11.14	12/22/55	39350	42490	OCT 52-SEP 60	OCT 52-OCT 60	1956		0.00	LOCAL
Station located 1.1 mi. SW of Callahan, 1.3 mi. above East Fork Scott River. Stage-discharge relationship at times affected by ice. Drainage area is 41.4 sq. mi. Station discontinued Oct. 4, 1960. (f)																
SUGAR CREEK NEAR CALLAHAN																
41 19 43	122 50 25	SW12 40N 9W	695E	7.75	2/ 8/60				8677	6538	JAN 53-DEC 54 AUG 57-SEP 60	JAN 53-DEC 54 AUG 57-OCT 60	1957		0.00	LOCAL
Station located 1.5 mi. above mouth, 2.5 mi. NW of Callahan. Tributary to Scott River. Stage-discharge relationship at times affected by ice. Drainage area is 12.0 sq. mi. Station discontinued Oct. 4, 1960. (f)																
WEAVER CREEK NEAR DOUGLAS CITY																
40 40 13	122 56 33	SE36 33N 10W	3240E	10.37	2/ 8/60	3240E	10.37	2/28/60	33930	35040	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	27	3.21	2/ 9/60	27	3.21	2/ 9/60	1509		MAR 53-MAY 54 MAR 59-SEP 60	MAR 53-MAY 54 MAR 59-OCT 60	1959		0.00	LOCAL
Station located at Gazelle-Callahan Road bridge, 4.1 mi. SW of Gazelle. Tributary to Shasta River. Station discontinued Oct. 4, 1960. (f)																

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

TABLE 2

GAGING STATION
ADDITIONS and DELETIONS

NORTH COASTAL AREA

NEW STATIONS

None

STATIONS DROPPED

Canyon Creek near Kelsey	10-4-60
* East Fork Scott River at Callahan	10-4-60
Shackleford Creek near Mugginsville	10-4-60
South Fork Scott River near Callahan	10-4-60
Sugar Creek near Callahan	10-4-60
Willow Creek near Gazelle	10-4-60

* Operation assumed by U. S. Geological Survey

TABLE 3

DAILY MEAN DISCHARGE
LITTLE SHASTA RIVER NEAR MONTAGUE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	2.6	2.9 E	3.3 E	3.8	5.0 E	54	18	14	4.8	2.8	2.6
2	2.4	2.8	2.9 E	3.3 E	3.8	5.1	52	20	14	4.8	2.6	2.6
3	2.2	2.8	2.9 E	3.2 E	3.8 E	4.0	50	23	13	4.5	2.8	2.8
4	2.2	2.8	2.9 E	3.1 E	3.8 E	4.0	45	27	12	4.5	3.0	2.6
5	2.2	2.6	2.9 E	3.0 E	3.6 E	13	40	21	12	4.5	2.8	2.2
6	2.2	2.8	2.9 E	2.9 E	3.6 E	27	33	31	11	4.3	2.6	2.2
7	2.4	2.6	2.9 E	3.1 E	5.0 E	130	30	67	11	4.3	2.6	2.2
8	2.8	2.8	2.9 E	3.3 E	15 E	45	29	29	10	4.0	2.8	2.4
9	2.6	2.6	2.9 E	3.1 E	23 E	23	30	30	9.8	3.8	2.6	2.4
10	2.4	2.8	2.9 E	2.9 E	12	16	30	27	9.4	3.8	2.6	2.4
11	2.2	2.8	2.9 E	2.7 E	8.6	15	32	25	8.6	3.8	2.6	2.4
12	2.2	2.8	2.9 E	2.6 E	11	18	27	24	8.2	3.5	2.4	2.4
13	2.2	2.4	2.9 E	2.6 E	11	38	26	22	7.8	3.5	2.6	2.4
14	2.2	2.2	2.9 E	2.6 E	9.8	22	37	19	7.4	3.3	2.6	2.4
15	2.4	2.2 E	3.5 E	2.6 E	9.4	15	26	18	7.4	3.3	2.6	2.2
16	2.4	2.4	3.5 E	2.6 E	7.4	15	21	16	7.1	3.3	2.8	2.4
17	2.4	2.4	3.5 E	2.6 E	7.4	21	20	16	6.7	3.5	2.6	2.2
18	2.6	2.9 E	3.5 E	2.6 E	7.1	30	25	15	6.4	3.3	2.8	2.4
19	2.6	2.9 E	3.5 E	2.6 E	6.1	35	28	15	6.7	3.0	2.8	2.4
20	2.6	2.9 E	3.5 E	2.7 E	6.1	38	25	17	6.4	3.0	2.8	2.4
21	2.8	2.9 E	3.5 E	2.8 E	5.0 E	40	23	19	6.1	2.8	2.6	2.4
22	3.0	2.9 E	3.5 E	2.9 E	5.0 E	40	19	18	5.7	2.8	2.2	2.4
23	2.8	2.9 E	3.5 E	3.1 E	5.0 E	39	20	17	5.7	3.0	2.6	2.2
24	2.6	2.9 E	5.4 E	3.2 E	5.0 E	38	18	18	5.4	2.8	2.6	2.2
25	2.6	2.9 E	5.4 E	3.2 E	5.1	34	17	19	5.4	2.8	2.8	2.2
26	2.6	2.9 E	4.5 E	3.2 E	4.5	33	16	21	5.1	2.8	2.6	2.2
27	2.6	2.9 E	4.0 E	3.3 E	5.1	31	15	21	4.8	2.8	2.6	2.2
28	2.6	2.9 E	3.8 E	3.3 E	5.0 E	29	14	16	4.8	2.4	2.6	2.2
29	2.6	2.9 E	3.7 E	3.3	5.0 E	26	14	15	4.8	2.6	2.4	2.2
30	2.6	2.9 E	3.6 E	3.8		53	15	15	4.8	2.8	2.4	2.2
31	2.8		3.6 E	3.5		32		15		2.8	2.4	
Mean	2.5	2.7	3.4	3.0	7.1	29.5	27.7	21.7	8.1	3.5	2.6	2.3
Acr-Ft	153	163	210	185	409	1813	1648	1337	479	213	162	140

E — Estimated NR — No Record

Total Discharge in Acre-Feet 6912

TABLE 4

DAILY MEAN DISCHAROE
SHASTA RIVER NEAR WEED

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.6	5.1	4.2	4.4	114	19	42	25	68	16	2.2 E	1.6
2	5.9	4.4	4.4	4.0 E	50	19	47	27	81	14	2.2 E	1.6
3	5.6	4.4	4.4	4.0 E	24	21	54	28	84	14	2.2 E	1.6
4	6.1	4.2	3.8	4.0 E	25	29	66	27	84	12	2.2 E	1.8
5	6.7	3.8	3.6	4.0 E	38	42	75	25	78	10	212 E	1.8
6	6.7	4.0	4.2	5.0 E	29	48	78	26	68	10	2.2 E	1.8
7	6.7	4.4	4.0	7.8	130	128	80	36	63	9.4	2.2 E	1.8
8	6.7	4.4	4.0	14	219	93	70	36	51	9.4	2.2 E	1.8
9	6.4	5.4	4.0	9.1	111	59	64	39	42	8.8	2.2 E	1.9
10	6.7	7.0	3.8	9.1	65	41	49	60	39	8.1	2.2 E	1.9
11	6.4	7.0	4.0	10	41	36	38	81	36	7.2	2.2 E	1.9
12	6.1	7.0	4.4	9.1	28	36	30	81	38	6.7	2.2 E	2.0
13	6.1	7.2	4.9	8.0 E	27	34	30	59	46	5.9	2.2 E	2.0
14	6.7	7.2	4.2	7.0 E	24	32	30	46	48	5.6	2.2 E	1.9
15	6.4	7.2	4.7	7.0 E	24	30	27	43	45	5.4	2.2 E	1.6
16	6.1	7.2	4.7	7.0 E	24	29	25	37	48	4.7	2.2 E	1.8
17	5.9	7.2	4.5 E	8.0 E	24	29	25	32	41	4.4	2.2 E	1.9
18	6.4	7.0	4.5 E	8.8	24	30	25	29	32	4.2	2.2 E	1.9
19	6.4	7.0	4.5 E	8.5	24	33	25	28	28	3.8	2.2 E	1.9
20	6.1	7.0	4.4	10	24	38	25	36	23	3.6	2.2 E	1.9
21	7.0	6.7	4.4	12	24	46	24	31	20	3.6	2.2 E	1.6
22	7.2	6.4	6.7	16	23	59	24	28	19	2.2 E	1.6	1.8
23	7.2	6.4	16	19	21	65	24	48	18	2.2 E	1.8	1.8
24	7.0	6.4	21	22	21	67	21	52	18	2.2 E	1.8	1.8
25	6.7	5.9	12	42	21	71	22	54	18	2.2 E	1.9	1.9
26	6.4	5.6	7.5	32	20	75	21	70	18	2.2 E	1.9	1.8
27	6.1	5.1	6.7	18	20	82	31	57	18	2.2 E	1.8	1.6
28	5.9	4.4	6.1	22	19	68	23	48	17	2.2 E	1.9	1.5
29	5.4	4.0	5.9	27	19	54	21	48	17	2.2 E	1.9	1.6
30	4.9	4.0	5.6	20		78	23	48	16	2.2 E	1.8	1.6
31	4.7		5.0 E	16		49		54			1.6	
Mean	6.3	5.8	5.9	12.7	43.3	49.7	38.0	43.2	40.7	6.1	2.1	1.8
Acr-Ft	385	343	361	784	2493	3055	2259	2656	2424	374	127	106

E — Estimated NR — No Record

Total Discharge in Acre-Feet 15370

TABLE 5

DAILY MEAN DISCHARGE
WILLOW CREEK NEAR GAZELLE

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.3	0.1	0.6	3.8	7.2	3.3	2.7	0.2	0.1	0.1
2	0.1	0.1	0.3 E	0.1	0.4	4.0	7.0	3.4	2.4	0.2	0.1	0.1
3	0.1	0.1	0.3 E	0.1	0.3	4.3	7.0	3.6	0.7	0.1	0.1	0.1
4	0.1	0.1	0.3 E	0	0.2	4.7	6.7	4.0	0.1	0.1	0.1	0.1
5	0	0.1	0.3 E	0	0.3	5.8	6.5	3.4	0.1	0.2	0.1	0.1
6	0	0.1	0.3 E	0	0.3	8	6.5	3.3	0.2	0.2	0.1	0.1
7	0.1	0.1	0.3 E	0.1	4.5 E	17	6.2	3.6	0.2	0.1	0.1	0.1
8	0.1	0.1	0.3 E	0.1	9.2 E	19	6.0	3.4	0.3	0.1	0.1	0.1
9	0.1	0.1	0.3 E	0.1	22	16	6.0	3.1	0.3	0.1	0.1	0.1
10	0.1	0.1	0.3 E	0.1	18	14	5.8	3.1	0.3	0.1	0.1	0.1
11	0.1	0.1	0.3 E	0.1	13	13	5.8	3.1	0.3	0.1	0.1	0.1
12	0.1	0.1	0.3 E	0.1	9.8	13	5.6	3.3	0.3	0.1	0.1	0.1
13	0.1	0.1	0.3 E	0.1	8.9	13	5.1	3.6	0.2	0.1	0.1	0.1
14	0.1	0.1	0.3 E	0.1	8.0	12	5.6	3.4	0.2	0.1	0.1	0.1
15	0.1	0.1	0.3 E	0.1	7.5	11	4.9	3.1	0.2	0.1	0.1	0.1
16	0.1	0.1	0.3 E	0.1	7.0	10	4.9	3.0	0.2	0.1	0.1	0.1
17	0.1	0.1	0.2	0.1	6.7	9.8	4.5	3.0	0.2	0.1	0.1	0.1
18	0.1	0.1	0.2	0.1	6.5	10	4.3	3.0	0.2	0.1	0.1	0.1
19	0.1	0.2	0.2	0.1	5.8	9.8	4.0	3.0	0.2	0.1	0.1	0
20	0.1	0.2	0.2	0.1	5.6	9.5	3.8	3.0	0.2	0.1	0.1	0.1
21	0.1	0.3	0.2	0.2	5.3	8.0	3.6	3.1	0.2	0.1	0.1	0.1
22	0.1	0.3	0.2	0.2	4.9	7.0	3.8	3.1	0.2	0.1	0.1	0.1
23	0.1	0.4	0.2	0.2	4.7	7.2	4.0	3.3	0.2	0.1	0.1	0.1
24	0.1	0.4	0.3	0.3	4.5	7.2	3.4	3.3	0.2	0.1	0.1	0.1
25	0.1	0.3	0.2	0.3	4.5	7.8	3.6	3.3	0.2	0.1	0.1	0
26	0.1	0.3	0.2	0.3	4.3	8.0	3.8	3.3	0.2	0.1	0.1	0
27	0.1	0.3	0.1	0.3	4.1	8.6	3.8	3.3	0.2	0.1	0.1	0
28	0.1	0.3	0.1	0.3	4.1	8.3	3.6	3.3	0.2	0.1	0.1	0
29	0.1	0.3	0.1	0.4	3.8	7.8	3.6	3.3	0.2	0.1	0.1	0
30	0.1	0.3	0.1	0.4		8.3	3.3	3.0	0.2	0.1	0.1	0
31	0.1		0.1	0.3		7.5		3.0		0.1	0.1	
Mean	0.1	0.2	0.2	0.2	6.0	9.5	5.0	3.3	0.4	0.1	0.1	0.1
Ac-Ft	6	11	15	10	347	582	297	200	23	7	6	5

E — Estimated NR — No Record

Total Discharge in Acre-Feet 1509

TABLE 6

DAILY MEAN DISCHARGE
SOUTH FORK SCOTT CREEK NEAR CALLAHAN

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	8.2	7.8	9.6 E	47	17	104	70	348	36	8.7	6.2
2	12	8.7	7.8	9.6 E	36	16	113	78	392	33	7.8	6.2
3	13	8.7	7.8	9.8 E	24	18	125	85	398	32	7.8	5.5
4	12	9.1	7.4	10 E	19	21	151	89	363	30	7.0	5.8
5	12	8.2	7.0	11 E	20	33	183	87	316	27	6.6	7.4
6	11	8.7	7.8	11 E	27	55	196	106	278	28	6.6	7.4
7	11	9.1	8.2	15 E	222	187	206	171	235	30	7.0	6.6
8	14	9.6	7.8	19 E	491	125	183	171	200	27	6.6	6.2
9	13	9.1	7.8	15 E	196	83	174	190	183	25	6.6	6.2
10	12	8.7	8.2	12.0 E	99	64	156	254	174	24	6.6	6.6
11	11	8.7	8.7	11.0 E	62	56	143	316	177	24	6.6	6.2
12	10	8.7	11	10.0 E	50	52	127	290	174	22	5.8	6.2
13	9.1	8.7	10	10 E	41	49	115	206	174	21	5.8	5.8
14	8.7	8.2	9.1	10.0 E	34	44	120	187	162	21	5.8	5.8
15	7.8	7.8	9.6	10.0 E	30	41	101	187	151	19	5.8	5.5
16	7.4	7.8	10	10.0 E	27	39	91	183	145	17	5.8	5.5
17	6.6	7.8	9.6	11.0 E	25	41	89	168	125	16	5.8	5.5
18	6.2	7.4	9.6	11.0 E	25	49	91	148	110	15	5.5	5.2
19	6.6	7.8	9.6	12	23	58	87	148	97	13	5.5	5.2
20	7.[illegible]	7.8	9.6	12	21	70	91	171	83	13	4.5	5.[illegible]
21	7.8	[illegible]	[illegible]	15	[illegible]	83	95	151	72	12	3.9	[illegible]
22	11	11	9.6	14	19	[illegible]	85	132	65	12	4.2	5.2
23	[illegible]	[illegible]	13	14	[illegible]	[illegible]	79	122	64	12	5.5	4.8
24	7.[illegible]	[illegible]	19	15	19	130	74	117	59	11	5.[illegible]	[illegible]
25	7.[illegible]	[illegible]	15	19	19	14[illegible]	70	130	58	11	6.2	4.8
26	7.4	[illegible]	11	19	[illegible]	14[illegible]	67	196	53	11	6.6	[illegible]
27	6.7	[illegible]	17.0 E	15	17	145	67	203	48	11	6.6	4.5
28	[illegible]	[illegible]	[illegible] E	15	17	122	62	203	46	11	6.6	[illegible]
29	[illegible]	[illegible]	9.[illegible] E	19	16	1[illegible]1	61	224	44	10	6.6	[illegible]
30	[illegible]	[illegible]	9.6 E	1[illegible]		115	64	238	40	9.1	6.2	[illegible]
31	8.7		[illegible] E	17		[illegible]		282		9.1	[illegible]	
Mean	[illegible]	[illegible]	9.7	13.[illegible]	[illegible]	78.[illegible]	112	171	161	19.1	[illegible]	.6
Ac-Ft	58[illegible]	1[illegible]	59[illegible]	[illegible]	[illegible]	4[illegible]1[illegible]	[illegible]	[illegible]	9588	1178	[illegible]	[illegible]

E — Estimated NR — No Record

Total Discharge in Acre-Feet [illegible]

TABLE 7

DAILY MEAN DISCHARDE
EAST FORK SCOTT RIVER AT CALLAHAN

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.5	6.3	8.0	6.7 E	273	33	112	94	264	21	4.1	2.7
2	5.9	6.7	8.0	6.7 E	130	30	112	108	274	19	4.1	2.7
3	5.9	7.6	7.6	6.7 E	76	34	130	114	264	18	4.1	2.7
4	5.9	7.6	7.6	6.7 E	59	33	177	114	240	18	4.1	2.9
5	5.9	7.1	7.1	6.7 E	79	66	224	100	215	17	4.1	2.7
6	5.9	7.1	7.6	6.7 E	66	94	250	108	191	16	4.1	2.7
7	5.9	7.1	7.1	5.9 E	433	299	250	161	161	17	3.8	2.9
8	6.3	7.1	7.1	12	897	218	215	169	132	15	3.5	2.9
9	6.3	7.1	7.6	12	445	132	206	194	123	15	3.5	2.9
10	6.3	7.1	7.6	11	244	96	191	247	114	14	3.5	2.9
11	6.3	7.1	8.0	12	164	83	169	292	114	12	3.5	2.9
12	6.3	7.1	9.5	11	132	78	137	281	112	9.5	3.2	2.7
13	5.9	7.1	10	11	116	78	123	197	108	9.5	3.2	2.7
14	5.9	7.1	9.5	11	98	71	127	172	100	9.5	2.9	2.7
15	5.9	7.6	9.5	10	88	66	110	169	96	9.0	3.2	2.9
16	5.9	7.6	9.0	11	79	60	96	156	88	8.0	3.2	2.7
17	5.9	7.6	9.5	11	76	60	90	139	74	7.1	3.2	2.4
18	5.9	7.6	9.5	11	71	68	88	123	62	6.7	3.2	2.2
19	5.9	7.6	9.0	11	63	83	87	114	53	6.3	2.9	2.2
20	5.5	7.6	8.5	11	56	102	85	130	48	5.9	2.9	2.4
21	5.9	8.0	8.5	14	52	116	94	114	40	5.5	2.9	2.4
22	6.3	7.6	10	18	47	144	87	100	40	5.9	3.2	2.4
23	6.3	7.6	17	18	45	167	79	96	39	5.1	3.2	2.4
24	6.3	7.6	21	26	43	172	71	94	42	5.1	3.2	2.4
25	6.3	7.6	18	75	42	180	68	108	37	4.8	3.2	2.4
26	6.3	7.6	14	74	40	194	68	156	33	4.4	3.2	2.4
27	6.7	7.1	13	37	37	212	76	186	32	4.4	3.2	2.7
28	6.3	7.1	12	34	36	212	69	189	29	4.4	3.2	2.7
29	6.3	7.6	11	42	34	151	73	200	26	4.4	3.2	2.7
30	6.3	8.0	10 E	43		154	83	206	23	4.1	2.9	2.7
31	6.3		9.0 E	31		137		227		4.1	2.9	
Mean	6.1	7.4	10.0	19.5	139	117	125	157	106	9.9	3.4	2.6
Acr-Ft.	374	438	616	1196	7976	7186	7432	9636	6296	606	207	157

E — Estimated NR — No Record

Total Discharge in Acre-Feet 42120

TABLE 8

DAILY MEAN DISCHARGE
SUGAR CREEK NEAR CALLAHAN

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.8	1.7	3.0 E	11	7.4 E	19	10	74	5.9	1.0	0.6
2	1.0	1.8	1.5	3.0 E	9.5	7.1 E	21	12	83	4.8	1.0	0.6
3	1.1	1.9	1.5 E	3.0 E	7.4	7.7 E	23	14	82	4.6	0.9	0.8
4	1.0	1.9	1.5 E	3.8 E	6.7	12	28	15	72	3.7	1.0	0.8
5	1.1	1.9	1.5 E	5.2 E	7.7	8.1	34	14	65	2.5	1.0	0.8
6	2.5	1.8	1.5 E	6.0 E	12	40	35	17	55	1.5	1.0	0.8
7	3.5	1.8	1.4 E	8.4	130 E	73	38	45	43	1.2	0.6	0.7
8	3.7	1.7	1.4 E	9.1	240 E	45	34	32	37	2.5	0.4	0.7
9	3.5	1.7	1.4 E	4.3	88 E	29	32	32	34	2.1	0.4	0.7
10	3.3	1.7	1.4 E	4.3	44	23	28	47	38	1.8	0.4	0.8
11	2.9	1.7	1.3 E	4.1	28	17	24	54	40	1.4	0.5	0.8
12	2.7	1.5	1.9	3.7	23	15	20	51	43	0.8	0.5	0.8
13	2.5	1.5	2.9 E	3.5	19	14	19	30	44	0.6	0.5	0.8
14	2.2	1.5	2.7 E	3.5	17	12	19	25	38	0.6	0.5	0.8
15	2.1	1.5	2.9 E	3.3	15	11	16	27	37	0.6	0.5	0.8
16	2.2	1.5	2.9 E	3.3	13	9.5	14	27	36	0.5	0.5	0.8
17	2.2	1.5	2.9 E	3.1	12	9.9	14	22	27	0.5	0.5	0.8
18	2.2	1.5	2.9 E	3.1	12	12	14	16	22	0.5	0.5	0.8
19	2.1	1.4	2.9 E	2.9	12	15	13	16	18	0.5	0.5	0.8
20	2.1	1.4	2.9 E	2.9	11	19	13	26	13	0.6	0.5	0.8
21	2.2	2.2	2.9 E	3.1	9.9	22	13	20	11	0.6	0.5	0.8
22	2.5	1.8	2.9 E	3.3	9.5	25	12	15	12	0.6	0.5	0.8
23	2.5	1.8	4.1	3.3	9.1	28	12	13	12	0.6	0.6	0.8
24	2.4	1.8	5.9	3.5	8.1	28	10	12	13	0.7	0.8	0.8
25	2.2	1.8	4.3	3.9	8.1 E	30	9.9	23	13	0.8	0.8	0.9
26	2.1	1.8	3.9	4.1	8.1 E	29	9.9	61	11	0.8	0.7	0.9
27	2.1	1.7	3.5 E	4.1	8.1	25	9.5	55	8.8	0.8	0.7	0.9
28	2.2	1.7	3.0 E	4.8	8.1	20	8.8	44	8.8	0.8	0.6	0.9
29	2.1	1.7	3.0 E	6.7	7.7 E	18	8.8	49	7.1	0.8	0.6	0.9
30	2.1	1.7	3.0 E	8.1		23	9.1	51	6.7	0.8	0.6	0.9
31	2.1		3.0 E	5.9		19		61		0.9	0.6	
Mean	2.2	1.7	2.6	4.3	27.4	21.1	18.7	30.2	33.5	1.5	0.6	0.8
Acr-Ft	138	101	160	266	1577	1297	1113	1857	1992	90	39	47

E — Estimated NR — No Record

Total Discharge in Acre-Feet 8677

TABLE 9

DAILY MEAN DISCHARGE
ETNA CREEK NEAR ETNA

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.7	2.7	2.7 E	2.8 E	28	27	118	56	288	23	7.0	2.8
2	2.7	2.5	2.7 E	2.8 E	26	26	135	62	306	22	5.6	2.7
3	2.7	2.8	2.7 E	2.8 E	20	34	150	68	292	19	5.4	2.7
4	2.7	3.0	2.7 E	2.8 E	18	40	189	72	254	19	4.9	2.7
5	2.3	2.8	2.7 E	2.8 E	29	83	216	69	216	18	4.7	2.7
6	2.7	2.8	2.7 E	2.8 E	65	140	209	81	186	16	4.2	2.7
7	2.8	2.7	2.7 E	22	342	400	199	156	145	18	4.0	2.7
8	4.9	2.5	2.7 E	23	1460	202	186	145	118	19	4.0	2.5
9	5.9	2.3	2.7 E	5.6	196	113	176	135	107	15	3.6	2.5
10	4.5	2.5	2.7 E	4.2	93	85	150	183	101	14	3.6	2.7
11	3.8	2.5	3.2	4.2	73	77	130	196	97	13	3.4	2.5
12	3.6	2.3	5.4 E	3.6 E	63	78	107	199	90	12	3.4	2.3
13	3.2	2.3	3.6 E	3.6 E	54	78	97	137	87	11	3.4	2.0
14	2.7	2.5	3.2 E	3.6 E	49	72	92	107	81	11	3.4	1.6
15	2.7	2.5	2.8 E	3.6 E	45	67	84	103	77	10	3.4	1.9
16	2.7	2.5	2.8 E	3.6	42	63	78	103	71	9.6	3.4	2.0
17	2.7	2.5	2.8 E	3.6 E	40	67	74	93	64	9.0	3.2	1.9
18	2.5	2.5	2.8 E	3.6 E	39	78	75	83	58	8.7	3.0	1.9
19	2.5	2.5	2.8 E	3.6 E	36	90	72	80	51	8.4	2.7	1.9
20	2.5	2.7	2.8 E	3.0	33	109	72	95	47	7.8	2.7	2.0
21	2.8	4.7	2.8 E	3.8	33	122	72	89	44	7.2	3.0	2.3
22	3.8	3.4	2.8 E	3.6	32	140	68	81	41	7.0	3.2	2.0
23	3.0	3.0	3.0	5.6	31	156	65	78	39	7.0	3.6	1.7
24	2.8	2.7 E	13	5.4	30	173	61	77	36	6.4	4.0	1.9
25	2.7	2.7 E	5.4	6.1	31	179	58	195	34	6.1	3.6	1.9
26	2.5	2.7 E	4.0	8.4	30	173	57	483	32	5.9	3.4	1.9
27	2.3	2.7 E	3.6	7.8	29	156	53	382	30	5.6	3.6	1.6
28	2.5	2.7 E	3.2	15	29	118	51	262	27	5.6	3.6	1.7
29	2.7	2.7 E	2.8 E	23	28	113	49	246	27	5.9	3.2	1.7
30	2.7	2.7 E	2.8 E	28		153	50	242	24	6.1	3.0	1.6
31	2.7		2.8 E	17		111		262		6.1	2.7	
Mean	3.0	2.7	3.4	7.5	104	114	106	149	102	11.4	3.7	2.2
Ac-Ft.	185	161	209	459	5998	6988	6333	9164	6089	699	230	129

E — Estimated NR — No Record

Total Discharge in Acre-Feet 36640

TABLE 10

DAILY MEAN DISCHARGE
MOFFETT CREEK NEAR FORT JONES

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0 E	1.5 E	1.9 E	1.2	1.2	12	27	7.6	2.5	1.8	0.3	0.6 E
2	1.0	1.8	1.9 E	1.5	1.4	11	23 E	6.5	2.2	1.8 E	0.3	0.6 E
3	1.0	1.5 E	1.9 E	1.8	1.4	15	21	7.6	1.8 E	1.5	0.2 E	0.6 E
4	1.0	1.4 E	1.9 E	1.2	1.4	21	19 E	7.0	1.0 E	1.5 E	0.2 E	0.6 E
5	1.2	1.4 E	1.9 E	1.5 E	1.2	21	18	7.0	0.9	1.5	0.1 E	0.6 E
6	1.4	1.5 E	1.9 E	2.5 E	1.4	27	18	7.6	1.4	1.8	0.2	0.6 E
7	1.8 E	1.8 E	1.9 E	2.0 E	4.8 E	72 E	18	7.6	1.5	1.5 E	0.2	0.6 E
8	2.2	1.8 E	1.9 E	2.0 E	56 E	86	16 E	7.6	1.8	1.4 E	0.3 E	0.6 E
9	1.4 E	1.8 E	1.9 E	1.8 E	78	63	17	6.1	2.5	1.0 E	0.3 E	0.6 E
10	0.9 E	2.0 E	1.9 E	1.4 E	50	48	18	5.2	2.2	0.7 E	0.3 E	0.6 E
11	0.9	1.8 E	2.0 E	1.0 E	36	43	18	5.2	2.0	0.5 E	0.3 E	0.6 E
12	1.2	1.8 E	2.2 E	0.9 E	29	40	17	5.6	2.2	0.5 E	0.3 E	0.6 E
13	1.4 E	1.8 E	2.2 E	1.0	29	37	16 E	5.2	1.5	0.5 E	0.4 E	0.6 E
14	1.4 E	1.5 E	2.0	1.0	27	35	14	5.2	1.8	0.6 E	0.5 E	0.7 E
15	1.5 E	1.5 E	2.0	1.0	25	33	14	5.2	2.2	0.6	0.5 E	0.7 E
16	1.4 E	1.4 E	1.5	1.0	22	31	13	4.8	2.0	0.4	0.6 E	0.7 E
17	1.5	1.5	1.5	1.0	21	29	13	4.4	1.5	0.5	0.6 E	0.7 E
18	1.8	1.4	1.4	1.0	19	31	12	4.4	1.5	0.7	0.9	0.7 E
19	1.2 E	1.5	1.4	1.0	18	32	12	4.4	1.4 E	0.4	0.6	0.7 E
20	1.2	1.8	1.4	1.0	16	32	13	4.4	1.4 E	0.3	0.6	0.7 E
21	1.5	1.9 E	1.4	1.0	15	29	13	4.4	1.4	0.2	0.5 E	0.7 E
22	1.5 E	1.9 E	1.4	1.2	14	28	13	4.4 E	1.4	0.3	0.5	0.7 E
23	1.5 E	1.9 E	1.4	1.0	14	28	13	4.8 E	1.4	0.2	0.5 E	0.7 E
24	1.5 E	1.9 E	1.5	1.0	14	27	11	6.5	1.4	0.2	0.5 E	0.7 E
25	1.4 E	1.9 E	1.8	1.2	13	26	11	5.6 E	1.4	0.2	0.5 E	0.7 E
26	1.4 E	1.9 E	1.5	1.2	13	22	11	4.8	1.4	0.3	0.5 E	0.7 E
27	1.5 E	1.9 E	1.8	1.0	13	22	11	4.8	1.2	0.2 E	0.5 E	0.7 E
28	1.5 E	1.9 E	1.8	1.0	13	23	9.3 E	4.4	1.4	0.2	0.5 E	0.6 E
29	1.5 E	1.9 E	1.4	1.0	12	25	9.3	4.0	1.5	0.2	0.6 E	0.6 E
30	1.5	1.9 E	1.5	0.9		28	8.1 E	3.3	2.0	0.2	0.6 E	0.6 E
31	1.8		1.5	0.9		27		3.0		0.3	0.6 E	
Mean	1.4	1.7	1.7	1.2	19.3	32.4	14.9	5.4	1.7	0.7	0.4	0.6
Ac-Ft	85	102	106	76	1110	1991	886	334	99	44	27	38

E — Estimated NR — No Record

Total Discharge in Acre-Feet 4898

TABLE 11

DAILY MEAN DISCHARGE
SHACKLEFORD CREEK NEAR MUGGINSVILLE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.7	4.5	4.3	5.0 E	8.0 E	20	92	53	194	43	13	11
2	3.7	4.5	4.1	5.0 E	13 E	20	100	60	211	40	13	11
3	3.6	5.4	3.9	5.0 E	10 E	22	104	68	212	37	12	11
4	3.4	5.6	3.7	5.0 E	9.0 E	24	121	70	198	35	12	11
5	3.2	5.2	3.7 E	5.0 E	9.0 E	40	135	69	185	33	11	11
6	3.2	5.2	3.7 E	5.0 E	12 E	72	131	84	173	30	11	11
7	3.2	5.0	3.7 E	5.0 E	80 E	168	129	138	153	30	15	11
8	5.4	4.7	3.7 E	5.0 E	250 E	113	126	121	140	33	15	11
9	11	4.7	3.7 E	5.0 E	100 E	80	120	118	131	25	14	11
10	8.7	4.5	2.7	5.0 E	64	65	108	144	133	24	14	11
11	7.1	4.3	3.7	7.0 E	51	60	98	158	134	22	14	10
12	6.1	4.3	4.1	7.0 E	44	60	89	159	134	20	14	9.9
13	5.6	4.1	4.7	7.0 E	39	61	86	122	130	19	14	7.9
14	5.2	4.3	5.0 E	7.0 E	35	56	87	111	124	18	13	6.3
15	5.0	4.3	5.0 E	7.0 E	34	52	75	109	121	17	13	5.9
16	4.7	4.3	5.0 E	7.0 E	31	50	69	105	116	16	13	5.6
17	4.7	4.1	5.0 E	7.0 E	30	53	65	96	101	15	13	5.2
18	4.5	3.9	5.0 E	7.0 E	28	61	66	84	91	15	12	5.0
19	4.5	4.3	5.0 E	7.0 E	26	71	63	86	84	14	12	4.7
20	4.5	4.3	5.0 E	7.0 E	25	82	61	113	76	13	12	4.7
21	5.0	6.8	5.0 E	7.0 E	24	90	62	102	71	12	12	5.0
22	6.1	5.4	5.0 E	7.0 E	23	99	56	85	68	11	12	5.0
23	5.9	5.4	5.0 E	7.0 E	23	108	53	80	67	11	13	5.0
24	5.4	5.0	5.0 E	7.0 E	22	115	50	79	66	11	13	4.7
25	5.2	4.7	5.0 E	7.0 E	22	116	49	125	64	11	12	4.7
26	5.0	4.5	5.0 E	7.0 E	22	113	47	229	60	11	12	4.5
27	4.7	4.3	5.0 E	7.0 E	21	108	45	190	56	11	12	4.7
28	4.7	4.3	5.0 E	7.0 E	21 E	91	43	155	52	9.6	12	5.0
29	4.7	4.3	5.0 E	7.0 E	20 E	83	44	159	49	10	11	5.0
30	4.7	4.3	5.0 E	7.0 E		88	48	163	47	9.6	11	4.8
31	4.7		5.0 E	7.0 E		84		176		13	11	
Mean	5.1	4.7	4.5	6.4	37.8	75.0	80.7	116	115	20.0	12.6	7.5
Acr-Ft	312	279	275	391	2170	4612	4804	7162	6825	1228	776	444

E — Estimated NR — No Record

Total Discharge in Acre-Feet 29280

TABLE 12

DAILY MEAN DISCHARGE
CANYON CREEK NEAR KELSEY CREEK GUARD STATION

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	6.2	5.6	5.3	6.0 E	39	36	155	85	358	69	17	8.7
2	5.9	5.6	5.3	6.0 E	36	36	153	96	382	64	17	8.7
3	5.6	5.9	5.3	6.0 E	30	41	157	105	385	61	16	8.3
4	5.6	6.2	5.0	6.0 E	28	49	173	110	368	60	16	8.3
5	5.3	5.9	4.7	6.0 E	39	92	205	104	339	59	16	8.3
6	5.3	5.6	5.0	6.0 E	75	176	215	120	314	57	15	7.9
7	5.3	5.6	4.7	18	313	336	213	205	273	54	14	7.9
8	6.5	5.6	4.7	26	533	213	205	189	240	51	14	7.2
9	9.5	5.3	4.7	14	262	155	196	182	223	47	13	7.2
10	8.3	5.3	4.7	11	159	128	180	238	233	44	13	7.2
11	7.6	5.3	5.6	11	110	114	169	279	233	41	12	6.9
12	7.2	5.3	7.2	9.5	90	120	151	293	235	39	12	6.5
13	6.5	5.3	6.2	9.2 E	77	115	145	213	228	36	12	6.5
14	6.5	5.3	5.6 E	8.8 E	69	100	147	182	213	36	11	6.5
15	6.	5.0	5.6 E	8.3 E	65	94	131	182	203	35	11	6.2
16	5.9	5.0	5.6 E	7.9 E	59	88	122	178	198	34	11	6.2
17	5.9	5.0	5.3 E	7.6	57	88	117	163	173	32	10	5.9
18	5.6	5.0	5.3 E	7.6	56	91	122	145	145	31	10	5.9
19	5.6	5.0	5.6 E	7.3	51	99	119	143	131	30	9.9	5.9
20	5.9	5.0	5.6 E	6.9	50	110	115	201	114	28	9.5	5.9
21	6.2	8.3	5.6 E	7.2	48	122	115	178	104	27	9.5	5.9
22	6.9	6.2	5.6 E	7.6	46	133	108	149	102	24	9.5	5.6
23	6.5	5.9	6.2	9.1	44	145	100	133	105	24	10	5.6
24	6.2	5.9	16	9.5	42	157	96	129	107	23	10	5.3
25	6.2	5.6	9.1	11	42	167	93	231	104	22	10	5.3
26	6.	5.6	6.5	14	40	171	90	435	94	21	9.9	5.3
27	5.9	5.3	6.0 E	13	38	173	86	372	85	20	9.5	5.0
28	5.6	5.	6.0 E	0	38	153	82	305	81	20	9.5	5.6
29	5.6	5.	6.0 E	36	37	149	81	308	80	19	9.1	5.3
30	5.6	5.	6.0 E	8		194	82	311	74	19	9.1	5.0
31	5.6		6.0 E	27		159		323		18	8.7	
Mean	6.	5.6	6.0	12.3	88.7	129	137	203	197	36.9	11.7	6.5
Acr-Ft		330	69	757	5104	7942	8176	12470	11750	71	72	389

E — Estimated NR — No Record

Total Discharge in Acre-Feet 50660

TABLE 13

DAILY MEAN DISCHARGE
WEAVER CREEK NEAR DOUGLAS CITY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.1	3.7	4.4	5.3	209	26	85	44	93	12	3.3	1.4
2	2.1	3.7	4.4	4.4	216	23	79	44	95	12	3.3	1.4
3	2.1	3.7	4.4	4.9	132	51	79	44	93	11	3.0	1.2
4	2.1	4.1	4.4	4.4	83	174	83	44	87	10	2.4	1.4
5	2.1	4.4	4.4	4.4	149	454	85	41	79	10	2.4	1.4
6	2.4	4.4	4.1	5.7	91	314	79	44	72	9.4	2.1	1.6
7	2.4	4.1	4.1	7.2	1150	582	77	49	65	8.9	1.9	1.6
8	3.3	3.7	4.1	16	1520	261	70	48	57	8.3	1.6	1.9
9	3.7	4.1	4.4	11	1340	192	68	49	52	7.7	1.6	1.9
10	4.1	4.1	4.4	8.9	381	144	67	55	48	7.7	1.4	2.1
11	3.3	4.4	4.4	15	189	139	65	60	44	7.2	1.4	1.9
12	3.3	4.4	5.7	13	139	214	57	63	42	6.7	1.4	1.6
13	3.3	4.4	5.7	10	110	195	54	55	40	6.7	1.4	1.6
14	3.0	4.4	5.3	8.9	93	149	54	52	37	6.2	1.4	1.4
15	3.0	4.4	5.3	8.3	76	124	51	52	33	5.7	1.4	1.6
16	3.0	4.1	5.3	8.3	68	110	46	52	31	5.7	1.9	1.6
17	3.0	4.4	5.3	7.7	63	99	45	51	29	5.3	1.9	1.9
18	3.0	4.4	5.3	7.7	60	93	44	46	28	4.9	1.9	1.4
19	3.0	4.4	5.3	7.7	52	91	42	45	26	4.9	1.4	1.2
20	3.0	4.4	5.3	7.7	46	91	42	48	22	4.4	1.2	1.2
21	3.3	4.4	5.7	13	42	91	42	45	21	4.1	1.2	1.2
22	3.7	4.4	5.7	16	41	91	45	44	20	3.7	1.4	1.2
23	4.1	4.4	7.2	15	37	89	44	46	19	3.7	1.6	1.2
24	3.7	4.4	18	14	35	89	40	55	18	3.7	2.1	1.4
25	3.7	4.4	13	37	33	89	44	133	17	3.7	2.1	1.4
26	3.3	4.4	9.4	42	32	85	44	129	16	3.7	1.9	1.4
27	3.0	4.4	8.3	31	29	81	62	101	15	3.7	1.6	1.4
28	3.3	4.4	7.2	60	28	74	46	95	14	3.7	1.6	1.2
29	3.7	4.4	7.2	44	26	70	42	101	13	3.0	1.4	1.4
30	4.1	4.4	7.2	54		124	44	101	13	3.3	1.4	1.4
31	4.1		6.2	35		91		97		3.3	2.7	
Mean	3.1	4.3	6.2	17.0	223	145	57.5	62.4	41.3	6.3	1.8	1.5
Ac-Ft.	193	253	379	1046	12830	8926	3422	3834	2458	385	114	88

E — Estimated NR — No Record

Total Discharge in Acre-Feet 33930

TABLE 14

DAILY MEAN DISCHARGE
BROWNS CREEK NEAR DOUGLAS CITY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.9	6.9	7.6	11 E	223	53	87	71	58	13	6.1	3.7
2	6.9	7.1	8.2	11 E	293	51	84	68	53	13	6.4	4.2
3	7.1	7.1	8.4 E	11 E	184	59	81	64	48	13	5.6	3.9
4	6.6	7.4	8.4 E	11 E	148	83	78	60	45	12	5.4	3.9
5	6.4	8.2	8.4 E	11 E	253	193	75	53	42	12	5.1	4.4
6	6.1	7.6	8.4 E	11 E	213	307	73	49	40	12	4.6	3.9
7	6.4	7.6	8.4 E	14	611	389	72	48	37	12	4.4	3.9
8	6.9	7.4	8.4 E	20	1360	354	68	45	36	12	4.4	3.7
9	7.4	7.6	8.4 E	16	1140	272	65	42	33	11	3.9	4.2
10	7.4	7.9	8.4 E	15	565	213	63	39	29	11	3.7	4.4
11	6.9	7.9	8.7	18	337	186	61	38	28	11	3.7	4.4
12	6.9	6.9	12	17	247	198	58	38	26	11	3.9	4.2
13	6.4	7.4	13	14	189	213	55	37	24	11	3.5	3.3
14	6.4	7.6	10	16	153	194	54	35	22	11	3.3	3.9
15	6.4	7.9	10	14	132	175	52	33	21	11	2.8	3.5
16	6.1	7.9	10	13	120	154	50	31	20	9.8	3.7	3.0
17	5.9	8.2	10	14	111	142	48	31	19	9.5	3.5	2.8
18	5.9	8.2	10	14	107	137	47	31	19	9.2	3.0	2.8
19	5.1	8.2	9.0	14	97	132	46	29	19	8.2	3.5	2.8
20	6.4	8.4	9.5	15	87	125	43	29	18	7.1	3.0	3.0
21	6.9	8.7	9.8	22	83	120	42	29	17	7.1	3.0	2.8
22	7.6	8.7	10	34	78	116	43	31	17	6.9	3.5	2.8
23	8.2	8.7	13	31	75	112	45	42	17	6.4	3.3	3.0
24	8.2	8.7	26	30	70	106	41	59	16	6.4	3.7	3.5
25	7.6	8.7	22	93	68	101	45	94	16	6.4	4.4	3.9
26	7.4	8.7	14	125	66	96	47	143	15	5.9	3.7	4.2
27	6.9	8.7	13	75	62	94	120	125	15	3.3	3.3	3.0
28	6.9	8.4	12	114	59	91	98	102	15	4.4	3.5	3.5
29	7.1	7.9	11 E	106	57	83	84	86	14	5.1	2.8	3.7
30	6.9	8.4	11 E	126		98	75	75	13	5.1	2.6	3.7
31	6.9		11 E	94		93		67		5.6	3.0	
Mean	6.8	8.0	10.9	36.5	248	153	63.3	55.6	26.4	9.1	3.9	3.6
Ac-Ft	419	474	670	2241	14260	9402	3769	3420	1571	560	239	214

E — Estimated NR — No Record

Total Discharge in Acre-Feet 37240

TABLE 15

DAILY MEAN DISCHARGE
NORTH FORK TRINITY RIVER AT HELENA

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	27	21	21	703	223	932	292	1090	174	53	27
2	31	27	21	24	856	212	932	318	1040	161	50	28
3	31	28	21	30	525	232	912	315	947	156	46	30
4	30	30	21	27	443	252	952	334	869	151	44	30
5	29	28	20	30	558	935	982	315	764	147	41	32
6	29	27	20	30	575	1760	927	350	683	147	39	31
7	29	26	20 E	44	3420	3290 E	932	536	588	147	37	29
8	34	25	20 E	118	7760	2160	813	505	505	140	37	28
9	51	24	20 E	72	3530	1370	712	477	467	132	36	26
10	51	24	19	57	1890	967	619	584	474	124	36	28
11	41	24	21	63	1140	782	562	667	474	108	34	27
12	38	24	29	58	818	764	484	716	491	102	32	26
13	36	23	32	44	646	912	441	494	494	98	30	24
14	34	23	23	51	544	841	447	410	454	97	30	23
15	32	23	23	42	487	725	397	400	464	97	32	21
16	31	23	23	44	461	631	365	391	438	94	30	20
17	30	23	23	47	435	638	350	356	385	87	30	20
18	29	23	23	47	413	704	334	310	328	82	31	19
19	28	23	22	49	373	755	331	292	310	79	31	19
20	28	23	21	51	337	795	315	359	264	77	30	18
21	29	27	21	72	320	818	318	334	232	76	34	18
22	41	26	21	85	310	874	304	292	234	72	36	18
23	44	24	32	110	294	898	286	292	243	66	34	18
24	36	24	92	121	281	898	269	365	252	62	33	18
25	34	23	82	222	279	859	269	918	250	59	35	17
26	32	23	47	317	269	773	260	2010	232	57	35	17
27	31	21	39	236	257	764	299	1840	217	57	35	16
28	30	21	35	365	243	704	281	1500	210	56	33	15
29	29	21	32	398	232	599	272	1340	196	56	31	15
30	28	21	32	446		1150	281	1210	186	56	30	15
31	28		30	325		992		1100		53	28	
Mean	33.4	24.3	29.2	118	979	912	519	633	459	99.0	35.3	22.4
Ac-Ft.	2055	1446	1797	7232	56330	56090	30900	38920	27340	6089	2168	1335

E — Estimated NR — No Record

Total Discharge in Acre-Feet 231700

TABLE 16

DAILY MEAN DISCHARGE
BIG CREEK NEAR HAYFORK

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	3.4	2.0	5.1	88	25	62	23	26	1.2	0.5	0.2
2	2.6	3.4	2.2	4.5	81	23	60	21	22	1.8	0.5	0.7
3	2.0	3.9	2.4	3.9	53	29	57	19	19	1.8	0.4	0.6
4	2.2	3.9	1.7	3.4	40	41	53	19	18	2.2	0.7	0.8
5	2.6	4.2	2.0	2.6	72	79	51	18	16	1.2	0.4	0.6
6	2.2	3.4	2.0	1.8	60	130	50	18	15	0.8	0.3	0.6
7	2.0	3.4	1.7	6.1	290	219	47	18	15	1.1	0.2	0.7
8	3.1	3.6	1.7	16	555	177	43	17	14	2.0	0.4	0.7
9	2.6	1.7	1.7	8.9	365	124	38	16	12	0.5	0.4	0.6
10	3.1	1.2	1.8	7.6	195	96	37	15	11	0.4	0.2	0.4
11	3.4	0.8	1.7	8.4	118	88	36	15	9.3	1.4	0.2	1.2
12	2.6	1.4	3.4	7.2	89	101	34	15	7.6	0.6	0.3	0.6
13	2.4	0.8	5.4	6.7	75	107	33	15	8.0	0.4	0.2	0.5
14	2.9	1.2	5.1	6.8	65	100	32	14	7.2	0.9	0.4	0.4
15	2.2	0.8	4.8	5.4	57	91	29	14	8.9	0.5	0.4	0.5
16	2.4	1.5	4.8	6.1	53	81	28	13	11	0.8	0.2	0.4
17	1.8	0.9	4.8	6.1	51	77	28	12	11	0.4	0.3	0.3
18	1.8	1.5	5.1	6.1	50	78	27	12	12	0.6	0.1	0.4
19	1.5	0.9	4.2	6.1	45	78	26	11	11	0.3	0.1	0.4
20	1.1	1.5	4.5	5.7	40	78	24	8.9	11	0.5	0.2	0.4
21	0.9	1.8	4.5	7.2	38	74	23	7.2	12	0.3	0.4	0.5
22	0.7	1.8	4.8	8.9	37	71	23	7.6	12	0.2	0.4	0.3
23	0.9	1.2	6.8	11	35	66	24	13	10	0.4	0.5	0.4
24	1.2	1.4	20	12	34	62	23	22	9.8	0.2	0.4	0.4
25	0.8	1.7	14	32	32	60	24	45	9.3	0.6	0.2	0.1
26	0.8	1.7	8.9	29	31	56	24	65	8.9	0.2	0.4	0.4
27	1.1	1.4	7.6	21	29	54	25	81	6.1	0.2	0.4	0.3
28	0.9	1.8	7.2	36	28	51	24	78	3.4	0.4	0.3	0.3
29	1.5	2.0	6.8	31	27	50	23	64	1.7	0.4	0.5	0.4
30	2.9	2.2	6.8	35		69	23	51	1.2	0.4	0.4	0.4
31	2.6		6.4	25		65		31		0.6	0.4	
Mean	2.0	2.0	5.1	12.0	94.2	80.6	34.4	25.2	11.3	0.8	0.3	0.5
Ac-Ft	120	120	311	739	5421	4959	2045	1549	673	46	21	29

E — Estimated NR — No Record

Total Discharge in Acre-Feet 16030

TABLE 17

STREAM FLOW MEASUREMENTS AT MISCELLANEOUS SITES

Measurements of stream flow 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 (ft.)	Discharge (cfs)
		NONE MADE THIS YEAR.			

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 supplementary data for the 1960 water year.

TABLE 15

MONTHLY PRECIPITATION*

In inches

Station		1959			1960									Water Year Total
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
Shasta Dam	1959-60	.03	.26	2.78	12.42	11.20	10.71	2.82	5.20	.00	.00	.00	.00	46.11
	Average*	3.87	5.92	8.33	10.62	10.59	8.98	4.22	2.15	1.38	.19	.15	.59	55.90
Redding Fire Station 2	1959-60	.10	.00	1.86	8.02	10.16	5.87	1.43	3.23	.09	.00	.00	.00	30.98
	Average	1.36	4.07	6.77	7.42	6.30	4.79	2.75	1.03	1.01	.11	.10	.58	37.45
Red Bluff Airport	1959-60	.04	T	1.06	4.53	4.27	2.45	2.35	.46	T	T	.00	.05	15.34
	Average	1.04	2.11	3.74	3.78	2.98	2.56	1.37	.87	.43	.03	.06	.44	19.41
Orland	1959-60	.01	.00	1.16	4.92	3.61	1.94	1.46	.77	.00	.01	.00	.05	14.26
	Average	.86	1.81	3.10	3.47	3.02	2.40	1.28	.56	.35	.02	.04	.32	17.83
Chico Experiment Station	1959-60	.00	T	1.51	6.35	3.75	3.11	1.96	1.34	.00	.07	.00	.04	18.16
	Average	1.20	2.02	4.34	5.02	4.38	3.04	1.91	1.03	.44	.02	.05	.40	25.32
Colusa	1959-60	.00	.00	1.38	3.80	2.50	1.64	.64	.76	.00	.00	.00	.00	11.23
	Average	.68	1.04	3.14	3.26	2.75	2.13	1.02	.50	.21	.01	.02	.23	15.37
Marysville	1959-60	.00	.00	1.68	4.00	2.87	2.87	1.85	.62	.00	T	.00	.00	13.98
	Average	.96	2.16	3.90	4.05	3.63	2.88	1.41	.70	.24	.00	.02	.23	20.32
Woodland	1959-60	T	T	1.01	2.04	2.77	1.93	.89	.77	.00	.01	.00	.01	10.73
	Average	.67	1.46	3.24	3.54	2.96	2.21	1.11	.49	.17	.00	.01	.20	16.16
Folsom Dam	1959-60	.00	.00	1.38	4.57	4.53	2.83	1.17	.73	.00	.00	.00	.01	15.07
	Average	1.06	2.30	4.24	5.04	4.34	3.57	1.75	.84	.25	.01	.02	.25	23.63
Sacramento City	1959-60	T	.01	1.28	3.25	2.91	1.82	1.26	.41	.00	T	.00	T	10.74
	Average	.79	1.67	3.48	3.37	3.31	2.50	1.32	.59	.19	.00	.02	.22	18.05
Davis	1959-60	T	T	1.46	3.35	3.43	1.16	.90	.54	.00	T	.00	T	10.72
	Average	.69	1.50	3.29	3.67	3.00	2.28	1.14	.64	.16	.00	.01	.18	16.37
Fair Oaks**	1959-60	.00	.00	1.20	3.00	3.37	1.80	.84	.36	.00	.06	.00	.00	10.63
	Average	.60	1.40	2.97	3.23	2.64	2.19	1.08	.43	.14	.00	.01	.18	14.93
Davis	1959-60	.00	T	1.15	4.20	3.12	1.51	1.04	.23	.00	.02	.00	T	11.27
	Average	.72	1.60	3.14	3.39	2.74	2.49	1.20	.58	.13	.00	.00	.19	16.39
Antioch Pump Plant 1	1959-60	.00	.01	1.28	2.51	2.80	1.40	.67	.35	.00	.03	.00	.00	9.35
	Average	.31	1.15	2.62	2.73	2.23	1.81	.78	.36	.11	.01	.01	.21	12.59
Stockton Fire Station 1	1959-60	.00	T	.87	2.98	2.25	.88	.90	.28	.00	T	.00	T	8.92
	Average	.40	1.31	2.68	3.03	2.33	2.11	.96	.53	.12	.01	.00	.20	13.71
Tracy Cartona	1959-60	.00	.00	.41	1.15	1.84	.21	.54	.14	.00	.00	.00	.11	5.07
	Average	.34	.78	1.48	1.81	1.40	1.37	.48	.41	.10	.00	.00	.13	8.76
Modesto	1959-60	.06	.00	.40	1.60	2.51	.51	.83	.08	.00	.00	.00	.07	6.12
	Average	.50	1.02	2.31	2.29	1.98	1.67	.83	.45	.11	.01	.02	.16	11.76
Merced Fire Station 2	1959-60	.00	.00	.72	1.48	2.40	1.21	1.40	.06	.00	.00	.00	.03	7.71
	Average	.47	1.17	2.37	2.24	2.12	1.79	1.03	.44	.08	.01	.02	.12	11.91
Los Banos	1959-60	.01	.00	.19	1.13	2.07	.63	1.30	.04	.00	.00	.00	.07	6.17
	Average	.39	.84	1.44	1.89	1.43	1.44	.73	.30	.06	.02	.01	.11	8.64
Fresno Airport	1959-60	.00	.00	.43	2.09	2.37	.67	1.59	.42	.00	T	.00	.02	7.59
	Average	.34	.97	1.77	1.70	1.41	1.62	.87	.32	.11	.01	.01	.18	9.53

* Data for water year records from U. S. Weather Bureau. Average precipitation computed from the 51-year period 1909-59.

** Data station replaced Sacramento Ferry.

T - Trace.

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 1959	Per Cent	91	105	93	86	36	55	50	88	47	86	90	76
	Average*	472	275	418	93	28	22	4	8	15	7	20	50
November 1959	Per Cent	46	65	51	44	22	17	12	22	23	17	32	24
	Average	851	409	727	164	79	75	16	23	39	18	28	108
December 1959	Per Cent	29	40	31	32	11	12	9	11	17	10	17	14
	Average	1677	754	1421	329	171	167	33	47	78	40	58	223
January 1960	Per Cent	38	49	40	34	31	23	18	21	24	17	24	22
	Average	2428	1112	2073	446	239	276	45	68	108	60	74	310
February 1960	Per Cent	113	113	121	131	142	112	87	74	89	70	60	75
	Average	2817	1263	2372	526	273	310	55	84	135	79	92	390
March 1960	Per Cent	108	106	116	122	135	116	96	86	84	61	63	75
	Average	3058	1141	2442	621	309	371	79	122	180	99	136	537
April 1960	Per Cent	71	62	68	64	78	76	81	77	84	84	73	79
	Average	3675	1000	2658	782	402	474	132	206	286	149	244	885
May 1960	Per Cent	63	86	65	54	60	53	62	53	68	60	56	60
	Average	4007	714	2393	700	441	538	198	294	447	245	430	1416
June 1960	Per Cent	52	88	66	64	58	40	32	38	43	35	38	39
	Average	2596	456	1330	344	229	301	131	189	372	182	392	1135
July 1960	Per Cent	51	85	72	73	56	28	17	19	15	16	26	20
	Average	1008	319	604	156	57	72	23	53	115	50	163	381
August 1960	Per Cent	75	95	86	79	62	33	25	8	26	0	37	26
	Average	497	261	406	103	24	18	4	12	19	10	46	87
September 1960	Per Cent	112	141	120	86	52	31	100	0	56	0	40	34
	Average	410	250	370	86	21	13	2	5	9	4	20	38
1959-60 Water Year	Per Cent	70	81	76	74	75	64	58	54	59	51	49	53
	Average	23496	7954	17214	4350	2273	2637	722	1111	1803	943	1703	5560

* 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 the valley floor.

TABLE 20

ANNUAL UNIMPAIRED RUNOFF

In percent 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	68	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	165	179	173
1952-53	106	121	117	119	112	101	94	87	85	65	69	78
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
1959-60	70	81	76	74	75	64	58	54	59	51	49	53

* 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

In thousands of acre-feet

Item	Record in Table No.	1959			1960									Water Year Total
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
WATER SUPPLY														
Measured Inflow														
Sacramento River at Sacramento	106	487	437	443	682	2045	2072	1145	989	647	640	598	574	10760
Sacramento Weir Spill to Yolo Bypass	100	0	0	0	0	2	0	0	0	0	0	0	0	2
Yolo Bypass near Woodland		0	0	0	1	502	49	4	3	1	1	1	1	564
Putah Creek near Davis		0	0	0	0	2	2	1	0	1	1	1	0	9
Cosumnes River at McConnell		0	0	0	5	46	40	29	17	1	0	0	0	139
Dry Creek near Galt		0	0	0	0	13	11	2	0	0	0	0	0	27
Mokelumne River at Woodbridge		2	2	2	7	6	6	1	2	11	2	2	4	45
Bear Creek near Lockeford		0	0	0	0	1	1	0	0	0	0	0	0	2
Calaveras River near Stockton		0	0	0	0	3	0	0	0	1	0	0	0	4
Stockton Diverting Canal at Stockton	167	0	0	0	0	18	1	0	0	0	0	0	0	20
Duck Creek near Stockton	163	0	0	0	0	0	0	0	0	0	0	0	0	1
French Camp Slough near French Camp	162	0	0	0	0	6	0	2	2	1	1	0	1	13
San Joaquin River near Vernalis		54	63	73	86	99	37	31	38	17	14	16	23	550
Precipitation (a)		0	0	56	156	152	54	48	15	0	0	0	1	482
Total Water Supply		543	502	574	937	2895	2273	1263	1066	680	659	618	604	12618
WATER UTILIZATION														
Consumptive Use in Delta Lowlands (b)		106	49	36	26	31	46	101	147	166	224	240	179	1351
Exportations														
Delta-Mendota Canal	217	74	35	11	11	33	136	150	159	218	241	209	112	1389
Contra Costa Canal	217	5	5	5	4	3	5	4	6	10	10	10	8	76
City of Vallejo	217	1	1	1	1	0	1	1	1	2	2	2	2	12
Delta Uplands Diversions														
Old River	203	5	0	0	0	0	12	18	17	23	25	24	14	138
Tom Paine Slough	203	1	0	1	0	0	3	3	3	4	4	4	3	26
San Joaquin River (Stockton to Vernalis)	204	3	1	1	0	0	11	15	13	17	18	18	10	107
French Camp Slough below French Camp	203	0	0	0	0	0	0	0	0	0	1	1	0	3
Calaveras River below Stockton	205	0	0	0	0	0	0	0	0	0	0	0	0	0
Mokelumne River below Woodbridge	205	0	0	0	0	0	0	1	2	2	3	3	1	12
Cosumnes River below McConnell	205	0	0	0	0	0	0	0	1	1	1	1	0	4
Sacramento River below Sacramento	205	0	0	0	0	0	0	0	1	1	0	0	0	2
Yolo Bypass (West Cut)	205	3	2	2	0	0	0	2	5	9	10	7	4	44
Putah Creek below Davis	205	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	206	10	6	2	0	0	2	12	16	19	21	19	16	123
Total Water Utilization		208	99	59	42	67	216	307	371	472	560	538	349	3287

a Water supply from precipitation has been computed using weighted monthly 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, and acreage data obtained through the land use surveys of 1952 and 1955.

TABLE

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC T B.R. M.D.B&M	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT	DATE	WATER YR. IN AC-FT	CALENDAR YR. IN AC-FT	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF DATUM
AMERICAN RIVER AT ELVAS																
38 35 26	121 26 [illegible]	NE3[illegible] 9N 5E					40.5	11/21/50				MAR 28-AUG 52# OCT 52-DEC 59	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. Station discontinued Dec. 1, 1959.																
AMERICAN RIVER AT FAIR OAKS																
[illegible]	121 13 36	NE17 9N 7E		4.0	3/16/60	180000	31.85	11/21/50			NOV 04-DATE	NOV 04-DATE	1904 1930 1957	1930 1957	65.79 64.79 77.53	USCGS USCGS USCGS
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																
[illegible]36 [illegible]9	121 30 3[illegible]	NE27 9N 4E					33.8	11/21/50				MAR 36-DEC 59			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. Station discontinued Dec. 2, 1959.																
AMERICAN RIVER AT SACRAMENTO																
38 34 05	121 25 20	SW 3 8N 5E		25.3	2/10/60	176000	45.73	11/21/50			JUL 21-OCT 21 MAY 24-DEC 428 MAY 43-SEP 59	JUL 21-OCT 21 JUN 24-NOV 24 JUN 25-DATE	1921 1921		0.00 -3.07	USED USCGS
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. Maximum gage height listed does not necessarily indicate maximum discharge. (s)																
ANTELOPE CREEK NEAR RED BLUFF																
40 12 10	122 07 05			9.9	2/ 7/60	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)																
ARDEN AREA DRAINAGE TO AMERICAN RIVER (PUMPING PLANT 1)																
38 35 00	121 25 07	NW 3 8N 5E							7085		OCT 59-DATE	SEP 59-DATE	1959 1960	1960	0.00 0.00	LOCAL USED
Station located 0.2 mi. W of Howe Avenue, 4.1 Mi. E of Sacramento. This is drainage returned by pumping and gravity. Daily distribution of flows is not available since the pumping plant operates on an automatic float switch. Recorder installed Sep. 19, 1959. (f)																
ARDEN AREA DRAINAGE TO AMERICAN RIVER (PUMPING PLANT 2)																
38 43 07	121 22 44	NE12 8N 5E							0		OCT 59-DATE	SEP 59-DATE	1959		0.00	USED
Station located 0.2 mi. above Watt Avenue, 6.3 mi. E of Sacramento. This is drainage returned by pumping and gravity. Recorder installed Sep. 19, 1959. (f)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 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	1959-60 WATER YR. IN AC-FT	1959 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
ASH CREEK AT ADIN																
41 11 54	120 56 30	SW21 39N 9E	1300E	11.30	2/ 8/60				36770	23980	37-SEP 57& SEP 57-DATE	37-SEP 57& 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	2260	12.32	2/ 8/60				31010	27240	NOV 47-DATE	NOV 47-DATE	1956	1956	150.74 148.59	USCGS USCOS
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)																
BATTLE CREEK NEAR COTTONWOOD																
40 23 50	123 08 05	NW 6 29N 2W		8.5	2/ 7/60	12800	11.85	2/ 6/42			OCT 40-DATE	OCT 40-DATE	1940		421.47	USCGS
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.O.S. Drainage area is 362 sq. mi. (s)																
BEAR CREEK BELOW BEAR RESERVOIR																
37 21 27	120 14 05	NE 5 7S 16E	900			4460		12/24/55	7343	5731	JAN 55-DATE	JAN 55-DATE	1955		320.50	USCGS
Station located approx. 0.75 mi. below Bear Dam. Tributary to San Joaquin River. Flow regulated by Bear Reservoir. Records furn. by U.S.C.E. Drainage area is 72 sq. mi. (f)																
BEAR CREEK NEAR CATHAY																
37 28 38	120 06 43	SW21 5S 17E	1030	7.00	2/ 8/60	2570E	9.36	4/ 3/58	5129	3207	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 MILLVILLE																
40 31 48	122 06 34	NE20 31N 2W	1200E	8.65	2/ 7/60	1200E	8.65	2/ 7/60	34780		OCT 59-DATE	AUG 59-DATE	1959		0.00	LOCAL
Station located below State Highway 44 bridge, 3.7 mi. E of Millville. Tributary to Sacramento River. Recorder installed Aug. 14, 1959. (f)																
BEAR CREEK NEAR RUMSEY																
38 56 51	122 20 44	SW30 13N 4W	3770E	8.37	2/ 8/60	8100E	12.33	2/24/58	13630	16840	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				9620	21.40	11/20/50			NOV 11-JUN 17 NOV 49-SEP 53 JAN 58-SEP 59	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. Results of measurements listed in supplementary table in report. Drainage area is 105 sq. mi. (f)																

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

TABLE 2[illegible]

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 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		
BEAR RIVER NEAR WHEATLAND																
39 00 01	121 24 20	SW 3 13N 5E		16.8	2/ 8/60	33000	19.30	12/22/55			OCT 28-DATE	OCT 28-DATE	1928 1943	1943	81.50 78.92	USCGS USCGS
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	1250	9.28	2/ 8/60				30580	31570	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)																
BIG CHICO CREEK NEAR CHICO																
39 46 35	121 45 10			9.2	2/ 8/60	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		2.12	1/25/60		3.50	2/16/59	5695		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. Maximum gage height listed does not indicate maximum discharge because it occurs during periods of ice affect. (f)																
BIG SAGE RESERVOIR NEAR ALTURAS																
41 34 42	120 37 33	SE 7 43N 12E		18.30	4/11/60		24.40	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 36 53	121 12 20	SW 4 4S 7E	64	2.26	8/ 8/60						APR 57-DATE 8	APR 57-DATE 8	1959	1959	0.00 1.00	LOCAL 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. Maximum discharge listed is for irrigation season only. (f)																
BURNEY CREEK NEAR BURNEY																
40 52 18	121 40 58	SW19 35N 3E	543E	10.31	2/ 8/60	592E	9.75	1/12/59	27900	27580	APR 58-DATE	APR 58-DATE	1958		0.00	LOCAL
Station located 300 ft. above county road bridge, 0.8 mi. SW of Burney. Tributary to Pit River. Stage-discharge relationship at times affected by ice. Flow affected by upstream diversion. Drainage area is 87.7 sq. mi. (f)																
BURNS CREEK BELOW BURNS RESERVOIR																
37 22 27	120 16 35	NE36 6S 15E	910			2590		12/24/55	2887	753	APR 50-DATE	APR 50-DATE	1950		260.60	USCGS
Station located 0.5 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)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT.	1959 CALENDAR YR. IN AC.-FT.			PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC. T.B.R. M.D.B.B.M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
BURNS CREEK AT HORNITOS																
37 29 42	120 14 17	SE17 5S 16E	2140E	6.57	2/10/60	309	4.51	2/16/59	1678	945	DEC 58-DATE	DEC 58-DATE	1958		0.00	LOCAL
Station located 130 ft. S of Stockton-Mariposa Road, 0.2 mi. SW of Hornitos. Drainage area is 26.7 sq. mi. (f)																
BUTTE CREEK NEAR ADIN																
41 07 12	120 52 36	NE24 38N 9E	69	4.80	3/ 7/60	117E	5.55	2/24/58	942	474	NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located 6.4 mi. SE of Adin. Tributary to Pit River via Ash Creek. Stage-discharge relationship at times affected by ice. (f)																
BUTTE CREEK NEAR CHICO																
39 43 34	121 42 28	NW36 22N 2E		7.8	2/ 8/60	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	8.65	2/ 8/60	5100	8.65	2/ 8/60	143800		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. (f)																
BUTTE SLOUGH AT MAWSON BRIDGE																
39 11 14	121 54 28	SW31 16N 1E	24800	57.06	2/10/60		68.9	3/ 1/40	344000	576100	JAN 39-DATE	NOV 34-MAY 37# OCT 37-DATE	1934		0.00	USED
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							183500	124600	JUN 24-OCT 38ŏ JAN 39-DATE	JUN 24-DATE			0.00	USED
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 ABOVE RUMSEY																
38 54 47	122 16 14	SE 2 12N 4W				20900E	15.29	2/ 8/60			OCT 59-DATE	OCT 59-DATE	1959		0.00	LOCAL
Station located 0.4 mi. below State Highway 16 bridge, 2.5 mi. NW of Rumsey. Tributary to Yolo Bypass. Recorder installed Oct. 8, 1959. (f)																

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

TABLE 32

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 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		
CACHE CREEK AT YOLO																
38 43 [illegible]	121 48 25			20.4	2/ 8/60	41400	33.11	2/25/58			JAN 03-DATE	JAN 03-DATE	1903 1903 1930 1930 1944 1944	1930 1930 1954 1954	61.1 58.24 59.1 56.27 55.1 52.27	USED USCGS USED USCGS USED USCGS
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 1[illegible]	121 00 46	NW 5 2N 9E	305	7.63	2/ 9/60				12420	12290	NOV 48-DATE	NOV 48-DATE			0.00	LOCAL
Station located 100 ft. above State Highway 8 bridge, 100 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		7.2	2/ 9/60	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)																
CALAVERAS RIVER NEAR STOCKTON																
38 00 45	121 14 23	NW20 2N 7E	291	8.00	2/ 9/60	632	9.20	4/ 4/58	4388	5358	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. 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		8.6	2/ 8/60	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 AT UPPER LAKE																
39 09 56	122 54 28	NW 7 15N 9W				302E	5.71	2/ 1/60			JAN 60-DATE	JAN 60-DATE	1960		0.00	LOCAL
Station located at wooden bridge, 0.5 mi. above confluence with Middle Creek, 1.0 mi. below bypass channel. Tributary to Clear Lake via Middle Creek. For total contribution of Clover Creek to Clear Lake add to Clover Creek Bypass near Upper Lake. Flow partially controlled by head gates. Station installed on Jan. 7, 1960. (f)																
CLOVER CREEK NEAR UPPER LAKE																
39 10 23	122 52 42	SE 5 15N 9W									OCT 48-SEP 53 MAR 58-NOV 59	OCT 48-NOV 59 NOV 59	1948		0.00	LOCAL
Station located 100 ft. below bridge, 1.7 mi. NE of Upper Lake. Tributary to Clear Lake. Station discontinued November 12, 1959. (f)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 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		
CLOVER CREEK BYPASS NEAR UPPER LAKE																
39 10 33	122 54 00	SE 6 15N 9W				797E	6.15	2/ 8/60			NOV 59-DATE	NOV 59-DATE	1959		0.00	LOCAL
Station located 0.2 mi. above Lake Pillsbury Road bridge, 0.8 mi. N of Upper Lake. Tributary to Clear Lake via Middle Creek. Station installed Nov. 12, 1959. (f)																
COLUSA BASIN DRAIN NEAR COLLEGE CITY																
39 00 38	121 58 38	NE 4 13N 1W		31.2	2/10/60						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. Results of measurements listed in supplementary table in report. (s)																
COLUSA BASIN DRAIN AT HIGHWAY 20																
39 11 44	122 03 34	NE34 16N 2W	1740	45.66	5/26/60	25400E	51.93	2/21/58	411200	466400	JUN 24-DEC 408 MAY 41-DATE	JUN 24-DEC 408 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		29.5	2/10/60		36.8	2/10/42	365500	382200	MAY 24-OCT 398 JAN 40-DATE	MAY 24-OCT 398 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	40800	66.45	2/10/60		70.6	3/ 1/40	174700	355000	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)																
CONTRA COSTA CANAL NEAR OAKLEY																
37 59 45	121 42 00	NE25 2N 2E							76110	71281	FEB 50-DATE	FEB 50-DEC 52	1950	1952	121.72	USCGS
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	4970	54.13	2/ 8/60	6180E	54.88	12/23/55	26610	26060	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)																

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

TABLE 22

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT	1959 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		
COPSEY CREEK NEAR LOWER LAKE																
38 53 21	122 35 47	NE14 12N 7W				1740E	9.29	2/ 1/60			JAN 60-DATE	JAN 60-DATE	1960		0.00	LOCAL
Station located 75 ft. below Spruce Grove Road bridge, 1.7 mi. SE of Lower Lake. Tributary to Cache Creek. Recorder installed Jan. 21, 1960. (f)																
COSUMNES RIVER AT MCCONNELL																
38 21 29	121 20 34	20 6N 6E		40.9	2/ 9/60	54000	46.26	12/23/55			OCT 41-DATE	JAN 31-MAY 40# DEC 41-DATE	1931		0.00	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 1941 to date. Records furn. 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		8.2	2/ 8/60	42000	14.59	12/23/55			OCT 07-DATE	OCT 07-DATE	1907		168.09	USCGS
Station located on highway bridge, 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 15	NE 7 29N 3W		12.8	2/ 8/60	52300	15.4	3/ 1/41			OCT 40-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							0	0	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	588	3.93	2/ 8/60	812	4.49	4/ 2/58	16220	14000	JUN 57-DATE	JUN 57-DATE	1957		0.00	LOCAL
Station located 1.0 mi. NE of Nevada City. Tributary to Yuba River. Flow regulated by Deer Creek and Scotts Flat Reservoirs. Drainage area is 26.0 sq. mi. (f)																
DEER CREEK NEAR SLOUGHHOUSE																
38 33 06	121 06 30	NW16 8N 8E				3100E	10.45	2/ 8/60			NOV 59-DATE	NOV 59-DATE	1959		0.00	LOCAL
Station located 0.2 mi. above Scott Road bridge, 5.5 mi. NE of Sloughhouse. Tributary to Cosumnes River. Recorder installed Nov. 25, 1959. (f)																
DEER CREEK NEAR VINA																
40 00 50	121 56 50	NE23 25N 1W		9.3	2/ 8/60	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 0.5 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
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 22

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT.	1959 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
			C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE								
DEL PUERTO CREEK NEAR GRAYSON																
37 32 23	121 07 16	SE31 4S 8E	37	3.56	7/29/60						APR 57-DATE 8	APR 57-DATE 8	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. Maximum discharge listed is for irrigation season only. (f)																
DELTA CROSS CHANNEL AT WALNUT GROVE																
38 14 48	121 30 25	NE35 5N 4E		6.8	2/ 9/60							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							1389180	1354611	JUN 51-DATE		1951		0.00	USCGS
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 FIREBAUBH WASTEWAY NEAR FIREBAUGH																
36 49 50	120 26 16	NW 3 13S 14E	18	2.93	3/12/60						MAR 58-DATE 8	MAR 58-DATE 8	1958		0.70	LOCAL
Station located 0.3 mi. E of Highway 33 bridge, 0.1 mi. N of head works of Firebaugh Wasteway, 1.8 mi. SE of Firebaugh. This is drainage returned to San Joaquin River. Maximum discharge listed is for irrigation season only. (f)																
DRY CREEK NEAR MODESTO																
37 39 26	120 55 19	SE24 3S 9E	1610	77.47	2/10/60	7710	88.04	12/23/55	30940	43430	MAR 41-DATE	MAR 41-DATE	1941		0.00	USCGS
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			10.4	2/ 8/60	8790	13.45	12/23/55			OCT 46-DATE	OCT 46-DATE	1946		62.83	USCGS
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	8320E	9.13	2/ 8/60	14100E	10.19	4/ 5/58	31330	27710	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
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE [illegible]

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC T.B.R M D B&M	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	1959-60 WATER YR. IN AC-FT	1959 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF DATUM
DUCK CREEK NEAR STOCKTON																
37 55 27	121 14 55	NE19 1N 7E	67	7.27	2/11/60	400	5.75	12/24/55	1108	2549	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 French Camp Slough. During high flow, water from Duck Creek enters Mormon Slough approx. 2 mi. E of the head of Stockton Diverting Canal. Discharge listed does not include this overflow. Flow regulated by gravity culverts which divert to Littlejohn Creek. (f)																
DUCK CREEK DIVERSION NEAR FARMINGTON																
37 56 18	120 59 21	NE16 1N 9E	277			3690	7.65	4/ 2/58	343	1947	SEP 51-DATE	SEP 51-DATE	1951		105.0	USCGS
Station located 1.0 mi. NE of Farmington. Flows are diversions from Duck Creek to Littlejohn 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	696	6.26	2/ 8/60	3290E	9.88	4/ 3/58	7324	6833	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							0	9	OCT 58-DATE	MAR 57-DATE	1958 1959 1960	1959 1960	0.00 0.00 0.00	LOCAL LOCAL LOCAL
Station located 1.8 mi. W of U. S. Highway 99, 5.8 mi. S of Tulare. Prior to Mar. 4, 1960 station located 700 ft. W of U. S. Highway 99, 4.5 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. (f)																
FALL RIVER NEAR DANA																
41 06 19	121 33 00	NE30 38N 4E	1020	7.20	3/ 8/60	2190E	10.25	2/25/58	327800	331100	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		98.20	2/ 8/60		102.25	12/23/55	2159000	1720000	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		46.1	2/ 9/60	357000	51.60	12/23/55			JUN 21-OCT 38δ JAN 39-DATE	20-DATE	1920		0.00 -3.3	USED USCGS
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. 5,920 sq. mi. (s)																

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

TABLE 22

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT.	1959 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		
FEATHER RIVER NEAR OROVILLE																
39 32 00	121 28 35	NE 2 19N 4E		63.8	2/ 8/60	230000		3/19/07			OCT 01-DATE	OCT 01-DATE	1912 1934	1934	139.53 182.02	USCGS USCGS
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	118000	63.09	2/ 9/60		76.8	12/24/55	3472000	2828000	JUN 44-OCT 45& 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. Record 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	73800	67.75	2/ 9/60		82.42	12/24/55	2414000	1988000	JUL 44-OCT 45& 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							1760880	1276510	FEB 55-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																
			72900		2/ 9/60	294000		12/23/55	473900	496600	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 SLOUGH NEAR FRENCH CAMP																
37 52 52	121 14 53	NE 6 1S 7E	635	5.80	2/11/60	3390	6.31	12/ 9/50			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 records used for computations. (f)																

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

TABLE 22

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	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 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		
FRIANT-KERN CANAL DELIVER TO PORTER SLOUGH																
36 05 00	119 04 50	SW20 21S 27E							0	370						
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)																
FRIANT-KERN CANAL DELIVERY TO TULE RIVER																
36 04 25	119 05 15	NW29 21S 27E							0	38339						
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 46	121 34 46	NE12 3N 3E		5.3	2/ 9/60		7.1	12/26/55				JUN 29-DATE	1929	1940	0.00	USED
													1940		0.00	USCGS
													1940		3.11	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		7.4	2/ 9/60							OCT 40-DATE	1940	1952	-3.66	USCGS
													1952	1953	-4.13	USCGS
													1953		-2.13	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)																
GRINDSTONE CREEK NEAR ELK CREEK																
39 41	122 32	SW15 21N 6W									AUG 52-OCT 55 OCT 59-DATE	AUG 52-MAR 57 AUG 59-DATE				
Station located at Chrome Road bridge, 5.1 mi. N of Elk Creek. Tributary to Sacramento River via Stony Creek. Recorder installed Aug. 6, 1959. (f)																
HAT CREEK NEAR CASSEL																
40 58 40	121 33 21	SE18 36N 4E	805	3.83	2/25/60	818	4.08	1/12/59	375800	383900	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. (f)																
HELM RANCH DRAIN NEAR FIREBAUGH																
36 50 27	120 25 53	SW34 12S 14E									APR 58-DEC 59	APR 58-DEC 59	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. Station discontinued Dec. 32, 1959. (f)																
GOOSE LAKE																
Staffs located: (1) 500 ft. out on causeway, approximately 4.2 mi. NW of Davis Creek; (2) at Willow Ranch, approximately 500 ft. from Lake shore; and (3) near New Pine Creek, at California-Oregon State Line, approximately 400 ft. out in Lake on fence line. Lake surface subject to fluctuation by wind. Gages installed August 17, 1958.												AUG 58-DATE				

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

TABLE 22

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 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		
HORSE CREEK AT LITTLE VALLEY																
40 53 56	121 10 23	NE15 35N 7E	513E	3.51	2/ 8/60	513E	3.51	2/ 8/60	8836		OCT 59-DATE	SEP 59-DATE	1959		0.00	LOCAL
Station located 300 ft. below Western Pacific Railroad bridge, 0.5 mi. NE of Little V lley. Tributary to Pit River. Recorder installed Sep. 30, 1959. (f)																
INDIAN CREEK NEAR TAYLORSVILLE																
40 03 31	120 49 10	NW 1 25N 10E	6180E	6.90	2/ 8/60	22400E	11.49	12/23/55	125600	107200	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 533 sq. mi. (f)																
KERN RIVER NEAR BAKERSFIELD																
35 26	118 57		1703						316133	353165	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	1300E	5.01	2/ 8/60				20170	16040	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	2240	10.35	2/ 8/60				31240	32590	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	1730	16.59	2/ 8/60				16660	19850	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	818	4.10	2/ 7/60	948	4.88	2/16/59	9124		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. Discharge listed does not include this diversion. Revised 1959 data also included. (f)																

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

TABLE

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 CALENDAR YR. IN AC-FT.			PERIOD		ZERO ON GAGE	REF DATUM
LATITUDE	LONGITUDE	1/4 SEC. T.B.R. M.D.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
LITTLE CHICO CREEK DIVERSION NEAR CHICO																
			145	4.33	3/ 7/60	356E	4.88	2/16/59	51		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. (f)																
LITTLE COW CREEK NEAR INGOT																
40 44 44	122 03 37	NW 2 33N 2W	3500	13.73	2/ 8/60	8200E	16.64	11/13/57	63920	54250	MAR 57-DATE	MAR 57-DATE	1957		0.00	LOCAL
Station located 1.5 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)																
LITTLEJOHN CREEK AT FARMINGTON																
37 55 38	121 00 08	NE19 1N 9E	660		2/11/60	3590	15.40	4/ 3/58	5738	14933	JUN 52-DATE	JUN 52-DATE	1952		89.97	USCGS
Station located 340 ft. below Farmington-Escalon Highway bridge. These flows include flows entering Littlejohn Creek via the Duck Creek Diversion. Records furn. by U.S.C.E. (s)																
LITTLE LAST CHANCE CREEK NEAR CHILCOOT																
39 52 01	120 10 13	SE 3 23N 16E	784E	5.56	2/ 8/60				10580	7873	JUL 54-DATE	JUL 54-DATE	1954		0.00	LOCAL
Station located 300 ft. below county road bridge, 5.1 mi. N of Chilcoot. Tributary to Middle Fork Feather River. Stage-discharge relationship at times affected by ice. Drainage area is 84.2 sq. mi. (f)																
MARIPOSA CREEK NEAR CATHAY																
37 23 55	120 00 10	NE21 6S 18E	935	7.36	2/10/60	4530E	11.62	4/ 3/58	6631	5359	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	525			6020		12/24/55	6172	5322	NOV 52-DATE	NOV 52-DATE	1952		337.63	USCGS
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	956E	5.73	2/ 8/60	956E	5.73	2/ 8/60	2819	1178	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. (f)																
McLEOD LAKE AT STOCKTON																
37 57 23	121 17 30	SW 2 1N 6E		8.9	2/ 9/60							DEC 27-DATE	1933	1958	-3.37 -3.80	USCGS USCGS
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)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD							PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE	1959-60 WATER YR. IN AC-FT	1959 CALENDAR YR. IN AC-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF DATUM
MERCED RIVER AT CRESSEY																
37 25 28	120 39 47	SW 9 6S 12E	1400	4.70	2/10/60	34400	22.67	12/ 4/50	58670	59100	JUL 41-DEC 41 JUL 42-DATE	APR 41-DATE	1950		96.24	USCGS
Station located 150 ft. below McSwain Bridge, immediately N of Cressey. Prior to May 20, 1960, station located 250 ft upstream. (fs)																
MERCED RIVER NEAR LIVINGSTON																
37 23 18	120 47 35	NW29 6S 11E		5.6	2/11/60							JAN 51-NOV 60	1957		0.00	LOCAL
Station located 150 ft. W of pumphouse, 3.0 mi. S of Delhi, 3.9 mi. W of Livingston. Recorder installed Jan. 17, 1951, at site approx. 0.6 mi. upstream. It was moved to a site 300 ft. upstream in March 1953 and to present location in January 1957. Station discontinued Nov. 1, 1960. (s)																
MERCED RIVER BELOW SNELLING																
37 30 06	120 27 03	NE17 5S 14E	604	7.88	2/10/60	604	7.88	2/10/60	25480	27200	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. Flow regulated by Exchequer power plant and Lake McClure. Prior to Nov. 1958, records available for a site 3.6 mi. downstream. (fs)																
MIAMI CREEK NEAR OAKHURST																
37 23 38	119 39 10	SE22 6S 21E				282E	5.46	2/ 8/60			DEC 59-DATE	DEC 59-DATE	1959		0.00	LOCAL
Station located 150 ft. below bridge, 4.5 mi. N of Oakhurst. Tributary to Fresno River. Stage-discharge relationship at times affected by ice. Drainage area is 10.5 sq. mi. Recorder installed Dec. 15, 1959. (f)																
MIDDLE CREEK NEAR UPPER LAKE																
39 12 32	122 55 31	SW25 16N 10W									OCT 48-SEP 53 MAR 59-SEP 59	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. Results of measurements listed in supplementary table in report.																
MIDDLE FORK CHOWCHILLA RIVER NEAR NIPINNAWASEE																
37 22 56	119 50 11	NE25 6S 19E	461	4.94	3/28/60	2500E	8.30	4/ 3/58	2045	1945	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	3320	7.97	2/ 9/60				68570	50180	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/ 9/60							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)																

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

TABLE 22

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 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		
MIDDLE RIVER AT BORDEN HIGHWAY																
37 53 28	121 29 20	NW36 4E 1N		5.1	2/ 9/60		7.2	12/26/55				JUL 39-DATE	1939 1943 1943	1943	-4.10 0.00 3.15	USCGS USCGS 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		7.9	2/ 9/60							JUL 48-DATE	1948 1952	1952	-2.70 -2.67	USCGS 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		9.1	2/ 8/60	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)																
MILL CREEK NEAR MOUTH																
40 02 35	122 06 05	NW 9 25N 2W		11.8	2/ 8/60						MAY 47-DEC 48 APR 49-DEC 57	MAY 47-DEC 48 APR 49-DATE			224.31	USED
Station located approx. 0.1 mi. below U. S. Highway 99E bridge, 1.5 mi. N of Los Molinos. Tributary to Sacramento River. Flow affected by upstream regulation and diversion. Results of measurements listed in supplementary table in report. (s)																
MILLER CREEK NEAR SATTLEY																
39 36 03	120 25 19	NE 9 20N 14E	73	1.93	2/ 8/60	213	4.08	12/23/55	4207	4537	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)																
MILLERTON LAKE																
37 00 00	119 42 10	SW 5 11S 21E							863006	974650	OCT 41-DATE	OCT 41-DATE	1941		0.00	USCGS
Station located near center of Friant Dam on San Joaquin River, immediately above Cottonwood Creek, 0.9 mi. NE of Friant. Usable capacity, 502,000 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 1,673 sq. mi.																
MINER SLOUGH AT FIVE POINTS																
38 17 30	121 38 40	SE 9 5N 3E		11.6	2/11/60		15.8	2/27/58				NOV 57-DATE	1957 1957		0.00 -3.45	USED USCGS
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)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT.	1959 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		
MOKELUMNE RIVER NEAR THORNTON																
38 15 20	121 26 21	NW28 5N 5E		8.7	2/10/60		8.7	2/10/60				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. (s)																
MOKELUMNE RIVER AT WOODBRIDGE																
38 09 30	121 18 10	NE34 4N 6E		12.4	1/ 4/60	27000	29.58	11/22/50			MAY 24-OCT 258 JAN 26-DATE	MAY 24-DATE	1924 1931	1931	18.86 14.86	USCGS USCGS
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)																
MORMON SLOUGH AT BELLOTA																
38 03 10	121 00 37	SW 5 2N 9E	2490	8.15	2/ 9/60				22720	44350	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	6780	79.42	2/ 9/60		83.8	2/ 7/42	13340	15370	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)																
NATOMAS CROSS CANAL AT HEAD																
38 49 19	121 32 34	NE 8 11N 4E		36.1	2/ 9/60						DEC 49-DEC 57	DEC 49-FEB 58 JAN 60-JUN 60	 1955	1955	0.00 0.34	USCE USCE
Station located at El Centro Boulevard bridge, 4.8 mi. NE of Verona. Tributary to Sacramento River. Backwater from the Sacramento River at times affects the stage-discharge relationship. Recorder installed Jan. 28, 1960. (s)																
NEWMAN WASTEWAY NEAR NEWMAN																
37 19 28	120 58 58	SW15 7S 9E	283E	5.16	8/ 7/60				5909	4050	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. (f)																
NORTH FORK COTTONWOOD CREEK NEAR IGO																
40 26 32	122 32 57	NW21 30N 6W	8670	35.70	2/ 8/60	6930	35.59	2/18/58	87410	73370	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	1090	5.38	2/ 8/60	1090	5.38	2/ 8/60	3901	3205	DEC 58-DATE	DEC 58-DATE	1958		0.00	LOCAL
Station located 40 ft. above Oreeley Hill Road bridge, 9 mi. NE of Coulterville. (f)																

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

TABLE 2c

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 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		
NORTH FORK MILL CREEK NEAR LOS MOLINOS																
40 03 45	122 05 11	NE 4 25N 2W	21	3.12	11/21/59	21	3.12	11/21/59			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. (f)																
NORTH FORK TULE RIVER AT SPRINGVILLE																
36 08 [illegible]	118 48 16	SE35 20S 29E	505	7.40	2/ 2/60	2070	9.27	5/19/57	10310	5803	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)																
NORTH HONCUT CREEK NEAR BANGOR																
39 20 32	121 29 5	SW11 17N 4E				2890	8.57	2/ 7/60			OCT 59-DATE	OCT 59-DATE	1959		0.00	LOCAL
Station located 0.4 mi. N of Honcut-Wyand Road and Bangor Highway junction, 5.7 mi. SW of Bangor. Tributary to Feather River. Recorder installed Oct. 13, 1959. (f)																
OLD RIVER AT CLIFTON COURT FERRY																
37 49 28	121 33 05	SE20 1S 4E		7.1	2/ 9/60							DEC 48-DATE	1948 1952	1952	-2.25 -2.12	USCGS 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		8.5	2/ 9/60							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		5.1	2/ 9/60		7.4	12/26/55				AUG 39-DATE	1939 1943 1943	1943	2.3 0.00 3.15	USED USCGS 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)																
OLD RIVER NEAR ROCK SLOUGH																
37 53 25	121 34 49	SW30 2N 4E		8.0	2/ 9/60		10.0	12/26/55				MAR 45-DATE	1945 1945		0.00 -3.0	USED USCGS
Station located on American Island (formerly Holland Tract), 1.2 mi. N of Rock Slough, 4.7 mi. NE of Knightsen. 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		9.2	2/ 9/60		13.2	12/29/55				JUN 51-DEC 548 FEB 55-DATE				
Station located 30 ft. above Tracy Road bridge, 3.5 mi. NW of Tracy. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																

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

TABLE 22

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 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		
ORESTIMBA CREEK NEAR CROWS LANDING																
37 24 59	121 00 45	SW 8 6S 9E	324	5.73	2/10/60					18650	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. Data insufficient to compute flow during periods of backwater from San Joaquin River. (f)																
OWENS CREEK BELOW OWENS RESERVOIR																
37 18 28	120 11 35	SW23 7S 16E	86			590		12/24/55	746	1055	FEB 50-DATE	FEB 50-DATE	1950		338.22	USCGS
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	36	2.16	4/27/60		3.78	5/ 2/59	6383		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. (f)																
PINE CREEK NEAR ALTURAS																
41 25 59	120 26 32	SW35 42N 13E	91	1.31	2/ 7/60	109	1.46	5/21/58	9961	8656	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	1850	12.56	2/ 8/60	2190E	13.40	2/25/58	70840	44720	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)																
PIT RIVER AT PITTVILLE																
41 02 44	121 19 54	NE13 37N 5E	4460	7.38	2/10/60	7710	10.34	2/26/58			NOV 57-DATE	NOV 57-DATE	1957		0.00	LOCAL
Station located 100 ft. below county road bridge, immediately SE of Pittville. (f)																
PLEASANTS CREEK NEAR WINTERS																
38 28 40	122 01 43	SE 1 7N 2W	1160	8.32	2/ 8/60	4000E	14.78	2/16/59	2082	4602	NOV 51-JUN 54 OCT 57-DATE	NOV 51-JUN 54 OCT 57-DATE	1957		150.33	USCGS
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	126	3.61	2/ 9/60				1218	999	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. (f)																

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

TABLE 2

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 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		
PORTER SLOUGH NEAR PORTERVILLE																
36 04 00	119 03 06	NE28 21S 27E	73	2.61	2/ 9/60	364	5.14	4/ 3/58	533	311	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	14380	23920	MAY 52-NOV 53 8 OCT 57-DATE	MAY 52-NOV 53 8 OCT 57-DATE	1957		47.52	USCGS
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	1250	7.63	2/ 8/60	7980	12.82	2/16/59	18760	20390	OCT 57-DATE	OCT 57-DATE	1957		75.06	USCGS
Station located at Boyce Orchard, 2.7 mi. E of Winters. (f)																
PUTAH CREEK NEAR WINTERS																
38 31	122 05	NE28 8N 2W		6.8	6/28/60 6/29/60	81000	30.5	2/27/40			JUN 30-DATE	JUN 30-DATE	1930 1940	1940	161.6 160.75	USCGS USCGS
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							17390	21190	MAY 24-OCT 38 8 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)																
RECLAMATION DISTRICT 108 DRAINAGE TO SACRAMENTO RIVER																
38 51 45	121 47 29	NE30 12N 2E							107900	111100	APR 24-OCT 38 8 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							4424	5984	JAN 40-DATE					
Plant located 0.3 mi. W of Knights Landing. This is drainage returned by pumping between Knights Landing Outfall Gates and 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 12 2E							12470	16230	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)																

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

TABLE 22

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	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 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		
RECLAMATION DISTRICT 1000 DRAINAGE TO SACRAMENTO RIVER (Pritchard Lake)																
38 43 51	121 36 07	SE12 10N 3E							0	0	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							10920	14350	MAY 25-OCT 388 JAN 39-DATE					
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							7437	3602	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	169500	180000	APR 30-OCT 388 JAN 39-DATE					
Plant located on west levee of Sutter Bypass, 3.7 mi. SE of Knights Landing. This is drainage returned by pumping and gravity. (f)																
RECLAMATION DISTRICT 1660 DRAINAGE TO SUTTER BYPASS																
39 01 57	121 44 33	NW27 14N 2E							2611	6205	MAY 54-DATE				0.00	USED
Plant located 9.9 mi. SW of Yuba City, 8.5 mi. E of Grimes. This is drainage returned by gravity. (f)																
RECLAMATION DISTRICT 1660 DRAINAGE TO TISDALE BYPASS																
39 01 44	121 46 53	SE30 14N 2E							20320	19660	JAN 25-DATE					
Plant located on north levee of Tisdale Bypass, 2.1 mi. E of Tisdale Weir, 6.8 mi. SE of Grimes. This is drainage returned by pumping and gravity. (f)																
RED BANK CREEK NEAR RED BLUFF																
40 05 23	122 24 45	SE22 26N 5W	2270	7.80	2/ 7/60	5610		2/21/56	14240		FEB 48-JUL 498 APR 50-APR 56 NOV 56-DATE	FEB 48-JUL 498 APR 50-APR 56 NOV 56-DATE	1956		0.00	LOCAL
Station located at Red Bank Road bridge, 11 mi. SW of Red Bluff. (f)																
RED CLOVER CREEK NEAR GENESEE																
40 02 56	120 39 41	SW 5 25N 12E	2150	6.58	2/ 8/60	4180E	7.98	12/23/55	32470	30250	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 122 sq. mi. (f)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT	1959 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		
ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE																
37 58 35	121 38 19	SW34 2N 3E		8.2	2/ 9/60							OCT 44-FEB 46 DEC 46-DATE	1944 1952	1952 1953	0.40 0.50	USCGS 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)																
RUSR CREEK NEAR ADIN																
41 15 47	120 53 31	NW36 40N 9E	704E	4.51	2/ 8/60	752E	5.74	2/24/58	7501	4477	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		12.04	2/ 8/60	73900	16.61	12/27/51			MAR 45-APR 52 MAR 54-DEC 57 MAR 58-DATE 8	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		90.9	2/ 9/60	170000	96.87	2/ 7/42			JUL 19-OCT 388 JAN 39-DATE	JUL 19-OCT 288 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		18.1	2/10/60		24.0	12/23/55				MAR 36-DATE	1936 1936		0.00 -3.1	USED USCGS
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)																
SACRAMENTO RIVER AT COLLINSVILLE																
38 04 25	121 51 18	SW27 3N 1E		7.8	2/ 9/60		9.2	4/ 6/58				JUN 29-DATE	1929 1929		0.00 -3.05	USED USCGS
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		64.8	2/10/60	49000	69.20	2/ 8/42			APR 20-OCT 388 JAN 39-DATE	APR 19-DATE	1921 1921		0.00 -3.0	USED USCGS
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)																

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

TABLE 22

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT.	1959 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 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		17.4	2/10/60							AUG 55-DATE	1955 1956	1956	4.93 0.00	USCGS USCGS
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		35.8	2/ 9/60		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/ 9/60		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	91900	43.33	2/ 9/60	350000E	22.6	2/28/40	5539000	6517000	APR 45-DATE	27-DATE	1927 1945 1945	1945	127.9 100.00 96.5	USED USED USCGS
Station located at Glanella Bridge, State Highway 32, 1.0 mi. NE of Hamilton City. Recorder, washed out by high water Jan. 9, 1959, was reinstalled Oct. 27, 1959. Records from October 1 to 26 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		8.7	2/ 9/60							APR 49-DATE	1949 1952	1952 1953	-4.41 -4.47	USCGS USCGS
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)																
SACRAMENTO RIVER AT KESWICK																
40 36 10	122 26 35	NW28 32N 5W		14.2	7/10/60	186000	47.2	2/28/40			OCT 38-DATE	OCT 38-DATE	1938 1939 1942	1939 1942	500.01 495.01 479.81	USCGS USCGS USCGS
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		37.9	2/10/60	29600	41.83	2/22/58			JUL 19-OCT 38δ JAN 39-DATE	JUL 19-DATE	1921		0.00 -3.02	USED USCGS
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)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT	1959 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		
ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE																
37 58 35	121 38 19	SW34 2N 3E		8.2	2/ 9/60							OCT 44-FEB 46 DEC 46-DATE	1944 1952	1952 1953	0.40 0.50	USCGS USCGS
Station located at Contra Coata Canal intake approx. 1.5 mi. NE of Knightsen. Station affected by tidal action. Maximum gage height listed does not indicate maximum discharge. (s)																
RUSR CREEK NEAR ADIN																
41 15 47	120 53 31	NW36 40N 9E	704E	4.51	2/ 8/60	752E	5.74	2/24/58	7501	4477	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		12.04	2/ 8/60	73900	16.61	12/27/51			MAR 45-APR 52 MAR 54-DEC 57 MAR 58-DATE 8	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		90.9	2/ 9/60	170000	96.87	2/ 7/42			JUL 19-OCT 388 JAN 39-DATE	JUL 19-OCT 288 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		18.1	2/10/60		24.0	12/23/55				MAR 36-DATE	1936 1936		0.00 -3.1	USED USCGS
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)																
SACRAMENTO RIVER AT COLLINSVILLE																
38 04 25	121 51 18	SW27 3N 1E		7.8	2/ 9/60		9.2	4/ 6/58				JUN 29-DATE	1929 1929		0.00 -3.05	USED USCGS
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		64.8	2/10/60	49000	69.20	2/ 8/42			APR 20-OCT 388 JAN 39-DATE	APR 19-DATE	1921 1921		0.00 -3.0	USED USCGS
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)																

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

TABLE 22

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT.	1959 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 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		17.4	2/10/60							AUG 55-DATE	1955 1956	1956	4.93 0.00	USCGS USCGS
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		35.8	2/ 9/60		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/ 9/60		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	91900	43.33	2/ 9/60	350000E	22.6	2/28/40	5539000	6517000	APR 45-DATE	27-DATE	1927 1945 1945	1945	127.9 100.00 96.5	USED USED USCGS
Station located at Gianella Bridge, State Highway 32, 1.0 mi. NE of Hamilton City. Recorder, washed out by high water Jan. 9, 1959, was reinstalled Oct. 27, 1959. Records from October 1 to 26 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		8.7	2/ 9/60							APR 49-DATE	1949 1952	1952 1953	-4.41 -4.47	USCOS USCOS
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)																
SACRAMENTO RIVER AT KESWICK																
40 36 10	122 26 35	NW28 32N 5W		14.2	7/10/60	186000	47.2	2/28/40			OCT 38-DATE	OCT 38-DATE	1938 1939 1942	1939 1942	500.01 495.01 479.81	USCGS USCGS USCGS
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		37.9	2/10/60	29600	41.83	2/22/58			JUL 19-OCT 38δ JAN 39-DATE	JUL 19-DATE	1921		0.00 -3.02	USED USCGS
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)																

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

TABLE 22

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT.	1959 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 MERIDIAN																
39 08 42	121 55 00	SE13 15N 1W		58.56	2/10/60		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. (s)																
SACRAMENTO RIVER OPPOSITE MOULTON WEIR																
39 20 13	122 01 50	SW12 17N 2W		79.54	2/ 9/60		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	2680E	6.21	2/ 8/60	2680E	6.21	2/ 8/60	127500		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. (f)																
SACRAMENTO RIVER AT ORD FERRY																
39 37 39	121 59 28	SE32 21N 1W	104000	114.20	2/ 9/60	370000	121.7	2/28/40	5896000	6916000	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)																
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		42.4	2/10/60						MAR 55-DATE 8	FEB 55-DEC 55 FEB 56-MAY 59 NOV 59-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, 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		20.3	2/ 8/60		32.2	2/28/40				1878-DATE	1957	1957	236.89 236.60	USCGS USCGS
Station located at E end of U. S. Highway 99E bridge, immediately E of Red Bluff. Results of measurements listed in supplementary table in report. (s)																

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

TABLE 22

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT.	1959 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 NEAR RED BLUFF																
40 13 55	122 10 50	SE34 28N 3W		17.3	2/ 8/60	291000	38.9	2/28/40			JAN 92-DATE	JAN 92-DATE	1902		253.18	USCGS
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		44.99	2/ 1/60						MAR 45-APR 52 MAR 54-DEC 57 MAR 58-DATE 8	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/ 9/60		10.0	12/26/55				25-DATE	1925 1925		0.00 -3.06	USED USCGS
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 twice daily during periods of pump operation and daily when pumps not in operation by pump operators. (s)																
SACRAMENTO RIVER AT SACRAMENTO																
38 35 20	121 30 15	NW35 9N 4E	69600	21.39	2/10/60	104000	30.14	11/21/50	10760000	11000000	04- 05 JUN 21-NOV 21 MAY 24-DEC 428 MAY 43-DATE	JAN 04-JUL 05 20-DATE	 1956 1956	1956 1956	0.12 3.10 0.00 2.98	USCGS USED USCGS USED
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 approx. 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)																
SACRAMENTO RIVER AT SACRAMENTO WEIR																
38 36 09	121 33 12	NE29 9N 4E		26.7	2/10/60		33.1	12/23/55				NOV 26-JUL 37# OCT 37-DATE	1926 1926		0.00 -3.07	USED USCGS
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		27.0	2/10/60							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																
Station located at Reclamation District 1000 pumping plant, 3.0 mi. NW of Sacramento. Gage read twice daily by pump operators. (s)												15-DATE	1915		0.00	USED

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

TABLE 22

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT.	1959 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 SNODGRASS SLOUGH																
38 21 02	121 31 56	SW22 6N 4E		15.4	2/11/60		20.5	12/23/55				AUG 39-DATE	1939 1939		0.00 -3.02	USED USCGS
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		48.8	2/10/60		53.5	3/ 1/40				JAN 25-OCT 60			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. Station discontinued Oct. 4, 1960. (s)																
SACRAMENTO RIVER AT VERONA																
38 46 50	121 36 10	SE23 11N 3E		35.4	2/ 9/60	79200	41.20	3/ 1/40			MAY 26-OCT 288 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	95300	83.81	2/ 8/60	147000	89.42	2/25/58	6418000	7338000	APR 45-DATE	APR 45-DATE	1945 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		8.6	2/11/60		12.4	4/ 4/58				FEB 29-DATE	1929 1931 1940 1940	1931 1940	0.00 0.33 0.00 2.84	USED USED USCOS 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)																
SACRAMENTO RIVER BELOW WILKINS SLOUGH																
39 00 35	121 49 25	NE 2 13N 1E		48.2	2/10/60	28900	51.41	2/27/58			APR 31-OCT 388 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		36.1	2/ 9/60						JUN 24-OCT 398 JAN 40-DATE	APR 45-DEC 468 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 (above gage ht. 29.0±) the slough is entirely submerged as it lies within the bypass area. Sharp rises in the Sacramento River cause zero or negative flow. (f)																

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

TABLE 22

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT.	1959 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 WEIR SPILL TO YOLO BYPASS																
			278	26.67	2/10/60	118000E	32.8	3/26/28	1543	1831	26-DATE					
See Sacramento River 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	832	5.16	2/ 8/60	1660	5.98	2/16/59	9185	8063	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		14.6	2/ 9/60		6.2	12/26/55				JUN 29-DATE	1929	1940	0.00	USED
													1940	1957	0.00	USCGS
													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		9.1	2/ 9/60							JUL 40-DATE	1940	1952	-3.61	USCGS
													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 AT CROWS LANDING BRIDGE																
37 26 52	121 00 44	NW 8 6S 9E		42.6	2/13/60							41-DATE		1959	0.00	USED
													1959		0.00	USCGS
													1959		3.51	USED
Station located at Crows Landing Road bridge, 4.3 mi. NE of Crows Landing. (s)																
SAN JOAQUIN RIVER NEAR DOS PALOS																
36 59 38	120 30 02					8200		6/ 5/52	5235	5230	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)																
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE																
37 18 35	120 55 45			59.5	2/12/60	5910	71.14	4/ 6/58			FEB 37-DATE	APR 37-DATE	1944	1957	-3.73	USCGS
													1957	1959	-3.77	USCGS
													1959		0.00	USCGS
Station located 30 ft. below Fremont Ford Bridge, 4.5 mi. W of Stevinson, 6.7 mi. above the Merced River. Prior to Oct. 1, 1959, station located 150 ft. below Fremont Ford Bridge. 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)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 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		
SHASTA LAKE																
40 43 10	122 25 10	NW15 33N 5W							4733130	4961020	NOV 42-DATE	NOV 42-DATE	1942		0.00	USCGS
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.																
SOUTH SAN JOAQUIN IRRIGATION DISTRICT MAIN DRAIN AT FRENCH CAMP																
37 52 50	121 15 53	NW 1 1S 6E									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. Supplementary station located below culvert. This is drainage returned to San Joaquin River via French Camp Slough. Backwater from French Camp Slough at times affects the stage-discharge relationship. (f)																
SPANISH CREEK NEAR QUINCY																
39 56 43	121 00 20	NW17 24N 9E	6450	9.23	2/ 8/60				69390	58450	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 69.1 sq. mi. (f)																
STANISLAUS RIVER AT KOETITZ RANCH																
37 41 57	121 10 08	SW 2 3S 7E		28.9E	2/11/60							MAR 50-DATE	1950 1951 1951	1951	0.00 0.00 3.60	USED USCGS USED
Station located 0.6 mi. NW of Bacon and Gates Road junction, 3.7 mi. SW of Ripon. (s)																
STANISLAUS RIVER NEAR MOUTH																
37 40 02	121 13 41	SW17 3S 7E	498	17.81	2/11/60					147500	SEP 51-DATE	SEP 51-DATE	1951 1959	1959	1.11 0.00	USCGS 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. Daily mean discharge during extended period of no record June 15 through September 1 is less than 10 c.f.s. (f)																
STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE																
37 47 18	120 45 41	SE 4 2S 11E	1010	4.25	2/ 8/60				23960	82700	JUN 28-DEC 398 APR 40-DATE	JUN 28-DEC 398 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		39.8	2/11/60	62500	63.25	12/24/55			APR 40-DATE	APR 40-DATE	1940		0.00	USCGS
Station located 15 ft. below the Southern Pacific Railroad bridge, 1.0 mi. SE of Ripon. Records furn. by U.S.G.S. (s)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT.	1959 CALENDAR YR. IN AC.-FT.			PERIOD		ZERO ON GAGE	REF. DATUM
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	C.F.S.	GAGE HT.	DATE	C.F.S.	GAGE HT.	DATE			DISCHARGE	GAGE HEIGHT ONLY	FROM	TO		
STANISLAUS RIVER AT RIVERBANK																
37 44 31	120 56 21	SW24 2S 9E	921	76.00	2/ 9/60	85800	103.18	12/23/55	56910	123800	JUL 40-DATE	JUL 40-DATE	1940		0.00	USCGS
Station located at Burneyville Bridge, immediately N of Riverbank. (fs)																
STOCKTON DIVERTING CANAL AT STOCKTON																
37 59 01	121 15 09	NW31 2N 7E	2570	10.80	2/ 9/60	11400E	17.10E	4/ 4/58E	19500	42700	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/ 9/60							MAY 40-DATE	1940	1943	-4.22	USCGS
													1943	1945	-4.39	USCGS
													1945	1946	-4.70	USCGS
													1946	1951	-3.00	USCGS
													1951		-3.02	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)																
SMITHNECK CREEK NEAR LOYALTON																
39 37 52	120 11 54	NW33 21N 16E	55	4.55	2/ 8/60	702	4.87	12/23/55	4810	4936	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		6.4	2/ 9/60		14.4	4/ 4/58				OCT 57-DATE				
Station located on Twin Cities Road (Laurel Land) 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 BATTLE CREEK NEAR MINERAL																
40 21 10	121 39 50	NW28 29N 3E	948E	6.08	2/ 8/60	948E	6.08	2/ 8/60	31150		OCT 59-DATE	SEP 59-DATE	1959		0.00	LOCAL
Station located at old State Highway 36 bridge, 3.7 mi. W of Mineral. Tributary to Sacramento River via Battle Creek. Stage-discharge relationship at times affected by ice. Drainage area is 33.0 sq. mi. Recorder installed Sept. 4, 1959. (f)																
SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD																
40 18 52	122 26 54	NE 5 28N 5W	12700E	8.27	2/ 8/60	12700E	8.27	2/ 8/60			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							0	4810						
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)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 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	1959-60 WATER YR. IN AC.-FT.	1959 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
SOUTH FORK MOKELUMNE RIVER AT NEW HOPE BRIDGE																
38 13 36	121 29 26	NW 1 4N 4E		5.8	2/10/60		13.3	12/25/55				AUG 20-DATE	1920 1940 1940	1940	0.26 0.00 2.84	USED USCGS 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	226	3.99	2/ 8/60	588	5.17	5/12/58	20240	17800	OCT 57-DATE	OCT 57-DATE	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 and is not considered to have the same degree of accuracy as other records published in this report. (f)																
SOUTH FORK PUTAH CREEK NEAR DAVIS																
38 31 02	121 45 21	NE28 8N 2E	1220	6.06	2/ 8/60	8410	12.93	2/16/59	9436	21400	OCT 57-DATE	OCT 57-DATE	1957		24.57	USCGS
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	69	5.06	8/22/60	69	5.06	8/22/60			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. Data insufficient to compute flow during periods of backwater from San Joaquin River. (f)																
STONE CORRAL CREEK NEAR SITES																
39 17 18	122 18 00	NW34 17N 4W	126	6.22	2/ 8/60	2500E	14.93	4/ 2/58	358	2066	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			12.6	2/ 8/60	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			6.8	2/ 8/60		13.9	2/28/40				06-DATE			136.9 134.10	USED USCGS
Staff located at State Highway 45 bridge, 2 mi. S of Hamilton City. Records furn. by U.S.W.B. Gage read daily. (s)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 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	1959-60 WATER YR. IN AC.-FT.	1959 CALENDAR YR. IN AC.-FT.	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
STRIPED ROCK CREEK NEAR RAYMOND																
37 20 27	119 53 35	NE 9 7S 19E	355	5.51	2/10/60	1180E	8.87	4/ 3/58	1131	717	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		4.5	12/30/59 1/25/60		5.7	4/ 6/58				JUN 29-APR 40 APR 40-DATE	1929 1940 1942	1940 1942	-2.21 -5.00 0.00	USCGS USCGS USCGS
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		48.1	2/11/60		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																
Station located on west levee, 3.7 mi. SE of Knights Landing. (s)												15-DATE			0.00	USED
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 twice daily by pump operators. (s)																
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 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 twice daily by pump operators. (s)																
SUTTER CREEK NEAR SUTTER CREEK																
38 23 46	120 46 49	SE 5 6N 11E				87	1.39	4/27/60			JAN 36-DEC 41 MAR 60-DATE	JAN 36-DEC 41 MAR 60-DATE	1936		0.00	LOCAL
Station located 0.4 mi. below Volcano Road bridge, 1.3 mi. E of Sutter Creek. Tributary to Mokelumne River via Dry Creek. Prior records available at a site 1.7 mi. downstream. Drainage area is 50.6 sq. mi. Recorder installed Mar. 14, 1960. (f)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 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		
THOMES CREEK AT PASKENTA																
39 52 55	122 33 05	NW 4 23N 6W		12.3	2/ 8/60	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		14.9	2/ 9/60		6.7	12/26/55				APR 29-DATE	1929	1940	0.00	USED
													1940	1959	0.00	USCGS
													1959		-10.00	USCGS
													1959		-6.78	USED
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		14.5	2/ 9/60		5.9	4/ 6/58				JUN 29-DATE	1929	1940	0.00	USED
													1940	1959	0.00	USCGS
													1959		-10.00	USCGS
													1959		-7.11	USED
Station located on Sherman Island, 4.9 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	12500	48.60	2/10/60	25700	53.3	3/ 1/40	104500	276600	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)																
TOM PAINE SLOUGH ABOVE MOUTH																
37 47 27	121 25 03	NW 4 2S 5E		9.3	2/ 9/60		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	USCOS
Station located on south end of El Rico bridge, 2.2 mi. SW of Chatom Ranch, 6 mi. SW of Corcoran. 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)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT	1959 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		
TULE RIVER BELOW PORTERVILLE																
36 04 40	119 06 22	NW30 21S 27E	583	1.69	3/28/60	5170	8.17	5/19/57	12370	41250	FEB 57-DATE	FEB 57-DATE	1957 1959	1959	0.00 -3.48	LOCAL LOCAL
Station located 330 ft above Rockford Road bridge, 5.1 mi. W of Porterville. Prior to Dec. 3, 1959, station located at Rockford Road bridge. Flow at times includes releases from Friant-Kern Canal. (f)																
TUOLUMNE RIVER AT HICKMAN BRIDGE																
37 38 10	120 45 14	NW34 3S 11E	1810	75.53	1/12/60	59000	96.2	12/ 8/50	196900	277200	JUL 32-OCT 36# JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE	JUL 32-OCT 36# JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE	1932		0.00	USCGS
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	2760	171.43	12/14/59	48200	188.0	12/ 8/50	137300	200900	OCT 36-DATE	OCT 36-DATE	1937		0.00	USCGS
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		43.1	2/11/60	57000	69.19	12/ 9/50			JAN 95-DEC 96 MAR 40-DATE	78- 84 91- 97 MAR 40-DATE	1940		0.00	USCGS
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	1940	111.19	12/15/59	49800	128.2	12/ 8/50	156700	232500	JUL 28-OCT 36# JAN 37-FEB 38 JUN 38-DATE	JUL 28-OCT 36# JAN 37-FEB 38 JUN 38-DATE	1930 1940	1940	106.20 0.00	USCGS USCGS
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		27.8	2/11/60				298338	416011	30-DATE	30-DATE		1959	0.00 0.00 3.50	USED USCGS 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. Datum change of Jan. 1, 1960, was made retroactive to Nov. 1, 1959, for continuity of record in this report. (fs)													1960 1960			
TURNER CREEK NEAR CANBY																
41 25 53	121 00 34	SE35 42N 8E	1330E	8.45	3/ 7/60	1330E	8.45	3/ 7/60			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		52.9	5/12/60 5/13/60		54.75	2/ 8/42		74060	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)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT.	1959 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		
WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA																
37 25 14	119 52 25	SE10 6S 19E	441	5.42	3/28/60	3590E	8.67	4/ 3/58	3568	3287	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	178E	3.44	5/10/60						MAR 58-DATE 8	MAR 58-DATE 8	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. Maximum discharge listed is for irrigation season only. (f)																
WILLOW CREEK NEAR ADIN																
41 05 04	120 54 09	SE35 38N 9E	201E	3.61	3/ 7/60				4875	4210	29-SEP 57 8 SEP 57-DATE	29-SEP 57 8 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 NEAR WOLF																
39 02 41	121 06 32	SE20 14N 8E	10500E	20.31	2/ 8/60				46220	35500	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)																
YOLO BYPASS AT LIBERTY ISLAND																
38 19 15	121 40 00	SW32 6N 3E		12.4	2/11/60		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. W 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		8.7	2/ 9/60		16.1	2/ 8/42				JAN 41-DATE	1941 1941		0.0 -2.92	USED USCGS
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										FEB 59-DATE	1959		0.00	USED
Station located 0.1 mi. N of east end of Sacramento Northern Railway trestle, 5.2 mi. NW of Clarksburg. Station affected by tidal action. Maximum gage height listed does not necessarily indicate maximum discharge. Prior record, 1914 to March 1960, available at site 0.1 mi. below east end of Sacramento Northern Railway trestle. Record for two stations will not necessarily correlate due to change in configuration of channel by dredging of Sacramento River Deep Water Ship Channel which blocked access to recorder at prior location. (s)																
YOLO BYPASS ABOVE SACRAMENTO BYPASS																
38 35 59	121 35 23	NE25 9N 3E		20.0	2/10/60		26.9	12/24/55				25-DATE	1925 1925		0.00 -3.07	USED USCGS
Station located at intersection of east levee of Yolo Bypass and north levee of Sacramento Bypass, 5.6 mi. NW of Sacramento. (s)																

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

TABLE 22

GAGING STATION DESCRIPTION
CENTRAL VALLEY AREA (continued)

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
			1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT.	1959 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		
YOLO BYPASS NEAR WOODLAND																
38 40 40	121 38 35	SE28 10N 3E		27.1	2/ 9/60	272000	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. Records furn. by U.S.G.S. (s)																
YUBA RIVER AT ENGLEBRIGHT DAM																
39 14 22	121 16 00	SE14 16N 6E		39.7	2/ 8/60	148000		12/23/55			OCT 41-DATE	NOV 41-DATE	1941 1958	1958	526.99 0.00	USCGS USCGS
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 furn. by U.S.G.S. Drainage area is 1,104 sq. mi. (s)																
YUBA RIVER NEAR MARYSVILLE																
39 10 35	121 31 25			84.6	2/ 8/60						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 Sept. 30, 1957 at site 4.2 mi. downstream. Records furn. by U.S.G.S. Drainage area is 1,335 sq. mi. (s)																
WEST VALLEY RESERVOIR NEAR LIKELY																
41 13 20	120 24 44	NW19 39N 14E										DEC 57-DATE	1957		4743.59	USCGS
Staff located at reservoir control structure, 150 ft. S of west end of dam, 5.0 mi. E of Likely. Elevation of base of spillway is at 18.66 ft. Gage installed Dec. 11, 1957. (s)																

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

TABLE 23

GAGING STATION
ADDITIONS and DELETIONS

CENTRAL VALLEY AREA

NEW STATIONS

Arden Area Drainage to American River (Pumping Plant #1)
Arden Area Drainage to American River (Pumping Plant #2)
Bear Creek near Millville
Cache Creek above Rumsey
Clover Creek at Upper Lake
Clover Creek Bypass near Upper Lake
Copsey Creek near Lower Lake
Deer Creek near Sloughhouse
Goose Lake
Grindstone Creek near Elk Creek
Horse Creek at Little Valley
* Merced River near Livingston
Miami Creek near Oakhurst
* Mill Creek near Mouth
* Natomas Cross Canal at Head
North Honcut Creek near Bangor
* Reclamation District 1660 Drainage to Sutter Bypass
* Reclamation District 1660 Drainage to Tisdale Bypass
* San Joaquin River at Crows Landing Bridge
* San Joaquin River at West Stanislaus Irrigation District In
Scott Creek at Upper Lake
South Fork Battle Creek near Mineral
* Stanislaus River at Koetitz Ranch
Sutter Creek near Sutter Creek
* West Valley Reservoir near Likely

* Installed prior to 1960, previous record unpublished.

STATIONS DROPPED

American River at Elvas	12- 1-5
American River at Garden Highway	12- 2-5
Clover Creek near Upper Lake	11-12-5
Helm Ranch Drain near Firebaugh	12-22-5
Sacramento River below Tisdale Weir	10- 4-6
Webber Creek near Sierraville	10- 2-5
Wolf Creek at Greenville	10- 1-5

Publication discontinued:

Mokelumne River near Clements	10- 1-5

TABLE 24

DAILY MEAN DISCHARGE
SACRAMENTO RIVER NEAR MOUNT SHASTA

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	64	62	68	72	699	106	385	268	613	74	49	44
2	65	62	68	71	346	106	375	309	607	70	49	45
3	64	64	66	74	197	112	415	326	537	69	49	48
4	65	65	65	72	170	126	503	305	472	66	49	49
5	64	65	63	74	232	227	589	293	398	63	48	49
6	65	65	65	76	196	427	589	327	332	62	47	47
7	67	65	68	77	751	1180	608	455	293	65	46	47
8	67	65	68	86	1760	702	556	466	266	66	47	45
9	69	65	70	79	670	427	525	506	230	65	45	47
10	67	65	70	79	388	308	484	581	210	61	43	47
11	66	65	68	83	269	264	439	676	194	61	44	47
12	64	65	68	79	222	260	364	647	182	59	44	45
13	63	64	70	76	202	260	350	495	170	58	45	47
14	63	64	70	78	181	241	355	423	157	54	44	45
15	61	66	70	78	166	220	306	398	144	54	45	45
16	59	66	70	78	155	210	282	368	134	52	47	45
17	59	67	72	78	145	234	274	332	122	52	46	45
18	59	67	72	80	142	274	267	298	116	47	48	45
19	62	67	70	80	134	328	267	270	112	48	50	47
20	62	66	70	79	127	378	275	289	103	47	50	47
21	62	64	70	81	127	434	279	270	100	49	48	45
22	65	66	72	97	120	495	252	236	94	49	48	45
23	63	66	107	111	118	518	245	258	92	46	47	45
24	63	66	129	141	113	542	217	306	90	47	47	45
25	63	66	97	310	117	567	207	289	83	49	47	45
26	63	66	80	242	113	625	208	434	81	48	48	45
27	62	65	79	168	111	778	272	501	80	47	45	47
28	62	66	79	182	111	688	224	518	75	47	45	45
29	62	66	75	182	106	476	214	531	73	46	44	45
30	62	68	75	178		687	235	524	73	47	47	45
31	62		74	140		481		561		47	44	
Mean	63.4	65.3	74.4	109	282	409	352	402	208	55.3	46.6	45.9
Ac-Ft.	3896	3886	4578	6706	16240	25170	20950	24710	12360	3402	2866	2733

E — Estimated NR — No Record

Total Discharge in Acre-Feet 127500

TABLE 25

DAILY MEAN DISCHARGE
SOUTH FORK PIT RIVER NEAR JESS VALLEY

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	22	21	18 E	13	3.6E	8.1	57	106	19	27	4.9
2	15	20	20	18 E	13	3.3E	4.9	86	116	19	23	4.9
3	15	21	19	18 E	7.2	3.0	6.0	62	113	19	20	6.8
4	14	21	19 E	18 E	5.3	4.6	10	63	109	19	19	8.1
5	14	21	19 E	18 E	7.2	20	21	45	105	16	17	7.7
6	15	22	18 E	18 E	9.5	25	26	43	99	16	13	7.2
7	17	23	17 E	18 E	46	61	46	96	100	17	8.1	6.8
8	21	22	17 E	18 E	172	29	42	113	100	17	8.1	6.4
9	21	22	17 E	18 E	66	6.4	54	108	88	17	8.1	6.8
10	19	21	16 E	18 E	29	6.0	72	111	79	16	8.1	7.7
11	18	19	16 E	18 E	16	5.6	79	119	71	16	8.6	7.7
12	18	19	15 E	18 E	6.8	7.2	60	116	67	16	11	7.7
13	17	19	14 E	18 E	4.6	25	48	105	63	15	9.0	7.2
14	17	21	14 E	18 E	3.3	8.1	54	99	60	16	8.1	7.2
15	17	23	14 E	18 E	3.3	2.0	40	99	55	17	8.6	6.8
16	17	22	18 E	18 E	2.0	2.7	29	94	53	18	8.1	6.4
17	17	21	18 E	18 E	3.6	6.0	25	106	49	17	8.1	6.4
18	14	21	18 E	18 E	3.9	6.0	34	109	46	17	8.1	6.4
19	14	21	18 E	18 E	3.0	4.9	45	103	45	16	7.7	6.8
20	14	19	18 E	18 E	4.9	4.2	49	108	44	15	6.4	8.1
21	17	22	18 E	18 E	2.0	3.9	66	129	40	14	6.0	9.0
22	27	19	18 E	18 E	1.4	3.3	63	129	35	15	6.4	8.6
23	22	22	18 E	18 E	1.4	3.6	57	116	34	15	7.7	8.6
24	20	19	18 E	18 E	2.0	2.7	44	109	32	16	8.1	8.6
25	19	19	18 E	23 E	2.5	3.0	43	109	29	16	6.8	8.6
26	19	21	18 E	29	2.0	6.4	43	103	23	16	6.4	8.6
27	19	22	18 E	28	3.0	6.4	48	100	23	13	6.4	7.7
28	19	22	18 E	27	3.9	5.3	39	91	24	14	6.4	8.6
29	19	22	18 E	25	3.9E	4.9	31	85	22	14	6.0	8.6
30	17	22	18 E	23		5.3	27	87	22	49	6.0	8.1
31	19			14		5.6		94		49	5.6	
Mean	17.6	21.0	17.5	19.4	15.2	9.2	40.5	96.6	61.7	18.4	9.9	7.4
Ac-Ft	1083	1250	1079	1192	876	563	2408	5939	3673	1129	609	442

E — Estimated NR — No Record

Total Discharge in Acre-Feet 20240

TABLE 26

DAILY MEAN DISCHARGE
PINE CREEK NEAR ALTURAS

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.7	6.4	6.4 E	5.3 E	12	3.7 E	15	17	32	19	11	7.7
2	7.7	6.4	6.4 E	5.9 E	13	3.2 E	14	23	37	18	10	7.7
3	7.7	6.4	5.9 E	5.9 E	6.4	3.2	14	20	47	18	10	8.3
4	7.7	6.4	5.9 E	5.9 E	5.3	3.7	15	41	57	17	10	8.3
5	7.7	5.9	5.3 E	5.9 E	5.9	9.8	16	28	60	16	10	7.7
6	7.7	7.7	5.3 E	5.9 E	6.4	29	16	23	60	15	9.6	7.0
7	7.7	7.0	5.3 E	5.9 E	59	44	24	33	60	15	9.6	7.0
8	9.6	6.4	5.3 E	6.4 E	58	24	19	30	58	15	9.6	6.4
9	8.9	6.4	5.3 E	6.4 E	17	10	19	30	54	14	8.9	7.0
10	8.3	6.4	5.3 E	6.4 E	8.9	7.7 E	18	31	49	14	8.9	7.0
11	7.7	6.4	5.3 E	6.4 E	5.9	9.6	18	32	45	14	8.9	7.7
12	7.0	6.4	4.7 E	5.9 E	5.3	17	17	32	42	13	8.9	7.7
13	7.0	7.0 E	4.7 E	5.9 E	4.7	29	16	31	40	13	8.9	7.0
14	7.0	7.7 E	4.7 E	5.9 E	3.7	12	18	37	40	12	8.3	7.0
15	7.0	7.7 E	4.7 E	6.4 E	4.2	7.7	16	41	40	12	8.3	7.0
16	7.0	7.7 E	4.7 E	6.4 E	1.4 E	6.4	15	43	39	11	8.3	7.0
17	6.4	7.7 E	4.7 E	6.4 E	2.2 E	5.9	15	43	39	11	8.3	7.0
18	6.4	8.3 E	4.7 E	6.4 E	5.3	7.0	15	41	37	11	7.7	6.4
19	6.4	8.3	5.3 E	6.4 E	5.9	7.7	15	41	36	11	7.7	6.4
20	7.0	7.7	5.3 E	6.4 E	5.9 E	8.3	15	43	34	11	8.3	7.0
21	7.7	7.7	5.3 E	6.4 E	5.3 E	9.6	17	41	31	10	8.3	7.0
22	8.9	7.7	5.3 E	7.0 E	5.9 E	10	17	38	30	10	9.6	7.0
23	7.7	8.3	4.7 E	7.0 E	5.3 E	11	16	35	28	9.6	8.9	7.7
24	7.0	7.7	4.7 E	7.0 E	5.3 E	12	16	35	26	9.6	8.9	7.7
25	7.0	7.0	4.7 E	7.0 E	4.7 E	12	15	33	25	10	8.3	7.7
26	7.0	7.0 E	5.3 E	7.0 E	4.7 E	14	15	33	24	10	8.3	7.0
27	7.0	7.0 E	5.3 E	7.0 E	4.2 E	14	15	33	23	9.6	8.3	7.0
28	7.0	7.0 E	5.3 E	7.0 E	4.2 E	13	15	31	21	10	8.3	7.0
29	7.0	6.4 E	5.3 E	7.0 E	3.7 E	11	15	30	20	9.6	7.7	6.4
30	7.0	6.4 E	5.3 E	7.0 E		12	15	30	19	18	7.7	6.4
31	7.0		5.3 E	10		12		30		14	7.0	
Mean	7.4	7.1	5.2	6.5	9.6	12.2	16.2	38.2	38.4	12.9	8.8	7.2
Ac-Ft	456	422	321	400	555	753	964	2041	2287	794	541	427

E — Estimated NR — No Record

Total Discharge in Acre-Feet 9961

TABLE 27

DAILY MEAN DISCHARGE
PIT RIVER BELOW ALTURAS

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47	11	17	40	123	44	97	58	77	84 E	63	71
2	45	22	23	41	169	45	123	65	94	82 E	90	72
3	41	24	30	38	123	49	142	106	123	79 E	115	72 E
4	37	17	26	39	72	52	153	177	128	77 E	83	73 E
5	35	11	17	38	64	79	173	253	127	74 E	74	73 E
6	34	8.9	21	35	90	397	142	211	123	72 E	72	73 E
7	34	12	34	41	381	472	181	192	95	69 E	72 E	73 E
8	36	13	39	65	1490	939	214	275	92	67 E	73 E	74 E
9	30	12	26	140	1430	769	181	233	108	65	73 E	74
10	26	1.3	18	102	1080	246	149	210	116	76	74 E	69
11	38	0.8	23	87	524	165	129	156	131	77	74 E	69
12	35	17	28	65	203	227	128	102	137	61	75 E	71
13	26	17	32	72	134	536	106	127	131 E	56	75 E	75
14	31	14	34	54	102	338	117	124	126 E	54	76 E	73
15	22	14	34	50	81	190	137	121	122 E	50	76 E	81
16	19	14	32	50	58	138	94	123	116	49	77 E	85
17	21	15	34	51	56	117	75	127	116 E	44	77 E	73
18	19	15	51	59	57	116	75	137	115 E	42	78 E	70
19	12	16	46	63	57	139	71	177	115 E	44 E	78	61
20	9.5	28	45	61	52	152	60	193	114 E	46 E	81	40
21	14	21	48	56	58	156	50	231	114 E	47 E	89	26
22	13	15	46	84	56	163	50	222	113 E	49 E	94	24
23	3.8	15	36	73	53	152	56	228	112 E	50 E	106	23
24	15	15	41	89	47	150	63	179 E	110	52 E	86	22
25	16	26	194	91	54	147	61	171 E	102	54 E	70	24
26	17	15	121	79	54	145	77	162 E	89	55 E	64	26
27	10	17	98	76	47	135	74	153 E	73	56 E	71	27
28	10	16	60	75	47	131	88	145 E	83	58 E	73	26
29	12	21	45	106	42	98	82	137	96	60 E	70	26
30	12	20	44	152		83	66	116	86	62 E	67	24
31	11		40	135		94		89		64	70	
Mean	23.6	15.4	44.6	71.2	235	215	107	161	109	60.5	77.9	55.7
Ac.-Ft.	1451	918	743	4378	13500	13220	6375	9918	6514	3719	4792	3312

E — Estimated NR — No Record

Total Discharge in Acre-Feet 70840

TABLE 28

DAILY MEAN DISCHARGE
TURNER CREEK NEAR CANBY

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.4	0.5	NR	NR	1.6	24	2.2	0.9	0.2	0.1	0.1
2	0.3	0.4	0.5	NR	NR	1.5	22	4.5	0.7	0.2	0.1	0.1
3	0.3	0.5	0.5	NR	NR	1.5	19	4.7	0.7	0.2	0.1	0.2
4	0.3	0.5	0.4	NR	NR	2.0	17	9.8	0.6	0.2	0.1	0.2
5	0.3	0.4	0.4E	NR	NR	29	15	5.9	0.6	0.2	0.1	0.2
6	0.4	0.4	0.5E	NR	NR	342	12	4.0	0.6	0.2	0.1	0.2
7	0.4	0.5	0.6E	NR	45 E	748	13	5.9	0.6	0.2	0.1	0.2
8	0.5	0.5	0.5E	0.9E	[illegible]	396	11	4.7	0.6	0.2	0.1	0.2
9	0.5	0.5	NR	NR	143	246	9.0	3.3	0.5	0.2	0.1	0.2
10	0.4	0.5	NR	NR	97	147 E	7.5	2.7	0.5	0.1	0.1	0.2
11	0.4	0.5	NR	NR	75	128	7.7	2.4	0.5	0.1	0.1	0.2
12	0.4	0.5	NR	NR	75	140	7.7	2.1	0.5	0.2	0.1	0.2
13	0.3	0.4	NR	NR	65 E	212	5.9	2.0	0.4	0.2	0.1	0.2
14	0.3	0.4	NR	NR	47 E	154	9.8	1.9	0.4	0.2	0.1	0.2
15	0.3	0.4	NR	NR	29	114	6.3	1.6	0.4	0.2	0.1	0.2
16	0.3	0.4	NR	NR	20	86	4.7	1.6	0.3	0.1	0.1	0.2
17	0.3	0.4	NR	NR	15	84	4.3	1.5	0.3	0.1	0.1	0.2
18	0.3	0.4	NR	NR	11	83	4.0	1.4	0.3	0.1	0.1	0.2
19	0.3	0.4	NR	NR	7.2	70	4.5	1.3	0.3	0.1	0.1	0.2
20	0.3	0.4	NR	NR	5.5	57	3.7	1.7	0.3	0.1	0.1	0.2
21	0.4	0.4	NR	NR	4.9	45	3.2	2.4	0.3	0.1	0.1	0.2
22	0.4	0.4	NR	NR	3.5E	39	3.8	1.8	0.3	0.1	0.1	0.2
23	0.4	0.5	NR	NR	3.0E	34	4.0	1.8	0.3	0.1	0.1	0.2
24	0.4	0.4	NR	NR	2.7E	29	3.5	3.3	0.3	0.1	0.1	0.2
25	0.4	0.4	NR	NR	2.5	26	3.0	3.8	0.3	0.1	0.1	0.2
26	0.4	0.5	NR	NR	2.2	24	2.7	2.5	0.3	0.1	0.1	0.2
27	0.4	0.5	NR	NR	2.0	22	2.7	1.9	0.3	0.1	0.1	0.2
28	0.4	0.5	NR	NR	1.8	24	2.4	1.5	0.3	0.1	0.1	0.2
29	0.4	0.5	NR	NR	1.6	20	2.0	1.3	0.2	0.1	0.1	0.2
30	0.4	0.5	NR	NR		29	1.7	1.1	0.2	0.2	0.1	0.2
31	0.4		NR	NR		24		0.9		0.1	0.1	
Mean	0.4	0.4				108	7.9	2.8	0.4	0.1	0.1	0.2
Ac-Ft.	22	27				6662	470	174	25	9	6	12

E – Estimated NR – No Record

Total Discharge in Acre-Feet

TABLE 29

DAILY MEAN DISCHARGE
RUSH CREEK NEAR ADIN

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	3.9	3.9	2.6	9.9	6.0	23	7.4	4.2	2.1	2.1	2.4
2	3.0	3.9	3.9	2.1	12	6.0	21	9.1	3.9	1.8	1.9	2.4
3	2.8	4.2	3.9	1.2	7.0	6.0	19	9.1	3.9	1.9	1.9	2.6
4	2.8	4.2	3.4	1.1	5.3	7.0	18	12	3.9	1.9	1.9	2.6
5	3.0	3.9	3.2	1.5	7.0	111	18	10	3.4	1.9	2.1	2.6
6	3.0	4.2	3.7	3.7	10	125	18	9.5	3.2	1.9	2.1	2.4
7	3.0	4.2	3.7	3.9	95	256	22	13	3.2	1.9	2.1	2.4
8	3.2	3.9	3.7	4.5	334	120	19	11	3.2	1.9	2.1	2.6
9	3.2	3.9	3.7	3.9	59	69	17	11	3.2	1.9	2.1	2.2
10	3.2	3.9	3.4	3.9	33	49	16	10	3.0	2.1	2.1	2.1
11	3.0	4.2	3.4	3.9	23	44	16	10	3.0	2.1	2.1	2.1
12	3.0	4.2	3.4	3.4	21	52	15	9.5	3.0	2.1	2.1	2.2
13	3.2	4.2	3.4	2.4	19	71	14	9.1	2.8	2.1	2.1	2.4
14	3.2	4.2	2.8	3.4	16	49	16	9.1	2.8	2.1	2.1	2.1
15	3.2	4.2	3.7	3.2	14	38	13	8.6	2.8	2.1	2.2	2.1
16	3.2	4.2	3.7	3.2	13	37	12	8.2	2.8	2.2	2.2	2.1
17	3.2	3.9	3.7	3.4	10	43	11	7.8	2.6	2.1	2.2	2.1
18	3.2	3.7	3.7	3.4	9.5	45	10	7.4	2.6	2.1	2.2	2.1
19	3.4	3.7	3.7	3.4	9.5	47	10	6.7	2.6	2.1	2.2	2.2
20	3.4	3.7	3.7	3.4	8.6	49	9.5	7.0	2.6	2.1	2.1	2.1
21	3.7	3.9	3.7	3.4	8.6	49	10	7.4	2.4	2.1	2.1	2.1
22	3.7	3.9	3.7	3.4	7.8	48	10	7.0	2.4	2.1	2.2	2.1
23	3.7	3.7	3.7	3.4	7.4	44	9.5	6.7	2.2	2.1	2.2	2.2
24	3.7	3.4	4.7	3.7	6.7	40	9.1	6.7	2.2	2.1	2.4	2.2
25	3.7	3.4	4.5	3.9	7.4	37	8.6	6.7	2.2	2.1	2.4	2.2
26	3.7	3.2	3.2	3.7	7.0	35	8.6	6.3	2.2	2.1	2.4	2.1
27	3.7	3.2	3.9	3.7	6.7	33	8.6	6.0	2.1	1.9	2.4	2.1
28	3.7	3.7	3.9	3.9	6.7	31	7.8	5.3	2.1	1.9	2.4	2.2
29	3.7	3.7	3.7	4.2	6.0	26	7.4	5.0	2.1	2.1	2.4	2.2
30	3.9	3.9	3.9	6.7		27	6.7	4.7	2.1	2.2	2.4	2.2
31	3.9		3.7	5.0		23		4.5		2.1	2.4	
Mean	3.3	3.9	3.7	3.4	26.9	52.4	13.5	8.1	2.8	2.0	2.2	2.2
Ac-Ft.	205	231	227	211	1547	3219	801	499	168	125	134	134

E – Estimated NR – No Record

Total Discharge in Acre-Feet 7501

TABLE 30

DAILY MEAN DISCHARGE
ASH CREEK AT ADIN

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.
1	22	25	28	16	121	54	92	39	15	14	24	6.4
2	21	26	25	14	109	51	84	66	14	14	25	7.9
3	25	26	33	25	56	54	79	54	15	15	23	1[illegible]
4	23	26	27	17	50	84	80	71	13	13	21	12
5	22	26	22	19	75	564	81	58	14	13	22	14
6	22	25	22	29	68	566	80	50	12	12	2[illegible]	14
7	22	26	21	37	523	919	99	64	14	13	21	14
8	27	26	23	37	1040	601	91	52	17	17	23	16
9	28	27	22	35	349	351	89	39	19	17	23	16
10	27	26	22	32	160	220	87	36	17	16	23	15
11	25	26	24	32	116	194	87	28	15	16	23	15
12	24	27	24	31	104	238	73	25	13	13	22	16
13	23	27	23	18	114	281	66	26	13	9.5	14	15
14	23	27	20	31	88	200	79	27	11	10	15	14
15	23	27	22	25	80	159	63	20	10	10	9.6	15
16	23	26	22	23	72	142	54	22	9.5	12	14	14
17	23	26	25	34	61	145	56	25	10	23	17	14
18	23	26	24	32	56	150	53	24	8.7	21	16	13
19	24	26	24	29	58	150	54	22	9.5	18	15	12
20	25	25	25	28	54	148	50	23	12	17	14	12
21	27	25	27	28	56	145	49	35	12	19	15	11
22	27	25	27	29	53	135	49	34	12	23	16	12
23	27	25	27	29	49	126	54	32	11	20	11	13
24	26	24	34	31	46	117	52	32	12	20	9.5	12
25	25	24	36	31	56	106	46	35	13	21	13	14
26	25	24	22	34	62	102	49	34	13	21	11	18
27	27	23	24	35	61	100	46	31	13	22	7.1	18
28	28	23	24	39	72	97	43	24	12	25	7.9	20
29	26	24	23	47	59	87	39	13	12	25	6.4	19
30	24	24	23	116		93	37	18	14	27	4.2	19
31	25		22	69		88		18		25	4.9	
Mean	24.6	25.4	24.7	33.3	133	209	65.4	34.7	12.9	17.5	15.9	14.0
Ac-Ft	1511	1513	1521	2047	7670	12830	3890	2136	765	1074	977	836

E — Estimated NR — No Record

Total Discharge in Acre-Feet 36770

TABLE 31

DAILY MEAN DISCHARGE
BUTTE CREEK NEAR ADIN

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.[illegible]	0.5	0.8 E	2.0	1.6	3.9	1.8	0.8	0.[illegible]	1.0	0.1
2	0.5	0.4	0.5	0.7 E	1.7	1.6	3.5	2.5	0.6	0.2	1.0	0.1
3	0.4	0.4	0.8	0.7 E	1.4	1.7	3.2	2.2	0.5	0.2	1.0	.1
4	0.4	0.4	1.0	0.7	1.3	1.8	2.7	2.5	0.5	0.3	1.0	0.[illegible]
5	0.4	0.4	1.0	0.7	1.2	3.7	2.4	2.2	0.5	0.[illegible]	1.0	0.2
6	0.5	0.4	0.9	0.4	1.2	4.1	2.2	2.0	0.5	0.3	1.0	0.1
7	0.5	0.5	0.9	0.5	6.5	22	3.0	2.4	0.4	0.3	0.8	.2
8	0.7	0.5	0.9	1.0	18	8.5	2.4	2.1	0.4	0.[illegible]	0.6	0.2
9	0.7	0.6	0.9	0.9	4.5	6.1	2.1	1.8	0.4	0.[illegible]	0.7	.2
10	.6	0.6	0.9	0.9	3.0	4.5	1.8	1.4	0.4	0.2	0.8	.4
11	.5	0.6	0.8	1.0	2.[illegible]	4.1	2.1	0.7	0.4	0.2	0.5	0.4
12	0.5	0.6	0.9	0.9	2.0	4.9	2.1	0.7	0.5	0.[illegible]	0.2	0.5
13	.5	0.6	0.9	0.8	2.0	9.0	1.8	0.5	0.6	0.4	0.1	.4
14	0.[illegible]	0.6	1.0	.4	1.6	5.7	2.0	0.3	1.0	0.5	0.2	0.4
15	0.5	0.6	.8	0.4	1.4	4.7	1.8	0.4	1.1	0.2	0.2	0.[illegible]
16	0.5	0.6	0.8	.4	1.3	4.1	1.7	0.4	1.0	0.[illegible]	0.[illegible]	.1
17	0.5	0.6	0.8	0.4	1.2	4.1	1.7	0.4	0.9	0.[illegible]	0.[illegible]	.2
18	0.5	0.7	0.8	0.[illegible]	1.3	4.7	1.6	0.5	1.0	0.5	0.4	.3
19	0.6	0.7	0.[illegible]	[illegible]	1.[illegible]	4.9	1.7	0.6	0.9	1.0	0.4	0.3
20	0.6	0.7	.8	.[illegible]	1.	5.[illegible]	1.6	0.7	0.9	1.0	0.1	0.4
21	[illegible]	.6	[illegible]	.	1.4	5.5	1.4	0.9	.9	1.	0.1	.4
22	.7	.6	[illegible]	1.0	1.4	6.1	1.7	1.0	.8	1.	0.1	.
23	.6	.6	0.9	1.1	1.3	6.1	2.0	1.1	0.8	1.0	.1	.5
24	.6	.6	1.1	1.1	1.3	[illegible].9	2.0	1.3	0.8	1.	0.1	.4
25	.1	0.6	1.1	1.1	1.4	[illegible].7	1.8	1.7	[illegible]	1.0	0.1	[illegible]
26	0.1	[illegible]	1.	1.1	1.6	[illegible]	1.8	1.6	[illegible].8	1.0	0.1	0.1
27	[illegible]	[illegible]	[illegible]	1.[illegible]	1.4	[illegible].1	1.8	1.3	0.8	1.0	0.1	0.1
28	.1	0.[illegible]	[illegible]	1.[illegible]	1.4	4.5	1.7	1.1	0.7	1.0	.1	0.1
29	.1	0.6	[illegible]	1.	1.6	.7	1.6	1.0	0.5	1.[illegible]	0.1	.1
30	.[illegible]	0.6	[illegible]	1.6		4.1	1.4	0.9	0.3	1.[illegible]	0.1	.1
31	.		. E	1.4		[illegible]		.		1.1	0.1	
Mean	[illegible]	[illegible]	[illegible]	0.8	[illegible].4	[illegible]	.1	1.[illegible]	.	.6	.4	.
Ac Ft		[illegible]	[illegible]	4[illegible]	137	3[illegible]4	1.4	[illegible]7	41	3[illegible]	[illegible]5	[illegible]

E — Estimated NR — No Record

Total Discharge in Acre-Feet [illegible]4.

TABLE

DAILY MEAN DISCHARGE
WILLOW CREEK NEAR ADIN

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.4	5.9	6.1	5.6	8.3	6.1	9.2	6.7	5.3	[illegible]	5.1	4.8
2	5.4	5.9	6.1	5.6	7.3	6.1	8.5	7.3	5.3	5.0	5.0	4.8
3	5.0	5.9	6.1	6.1	6.5	6.5	7.8	6.9	5.1	5.1	5.0	4.8
4	5.0	6.1	6.1	5.6	6.1	6.8	7.5	7.1	5.1	5.1	5.0	4.8
5	5.0	6.1	5.9	5.6	6.1	8.8	7.5	6.5	5.1	5.0	5.0	4.8
6	5.0	6.1	5.9	6.1	6.1	9.6	6.9	6.3	5.1	5.0	5.0	4.8
7	5.0	6.1	5.9	6.3	17	78	7.5	6.9	5.1	5.0	4.8	4.8
8	5.4	6.1	5.9	6.3	52	27	7.1	6.3	5.1	5.0	4.8	4.8
9	5.2	6.1	5.9	6.3	16	19	6.7	6.1	5.1	5.1	4.8	4.8
10	5.4	6.1	5.9	6.3	11	13	6.1	5.9	5.1	5.0	4.8	5.0
11	5.2	6.1	5.9	6.3	9.1	13	6.9	5.7	5.0	5.0	4.8	5.0
12	5.2	6.3	6.1	6.3	8.3	13	7.1	5.7	5.0	4.8	4.8	5.1
13	5.2	6.5	6.1	5.6	8.0	16	6.7	5.7	5.0	4.8	4.8	5.0
14	5.2	6.8	6.1	6.3	7.5	15	7.5	6.1	5.0	4.8	4.8	5.0
15	5.2	6.8	6.1	6.1	7.3	13	6.9	6.1	5.0	4.8	4.8	5.0
16	5.2	6.8	6.1	5.9	7.0	11	6.7	6.1	4.8	4.6	4.8	5.0
17	5.2	6.5	6.1	6.1	6.8	13	6.9	6.1	4.8	4.6	4.6	5.0
18	5.4	6.5	6.1	6.1	7.0	17	6.7	6.1	4.8	4.6	4.6	4.8
19	5.6	6.5	6.1	6.1	7.0	18	6.9	5.9	5.0	4.5	4.6	4.8
20	5.6	6.5	6.1	6.1	6.8	18	6.7	6.3	5.0	4.5	4.8	5.0
21	5.6	6.5	6.1	6.1	6.8	17	6.7	6.7	5.0	4.5	4.8	5.0
22	5.6	6.5	6.1	6.1	6.5	15	7.3	6.5	5.0	4.5	5.0	5.0
23	5.6	6.3	6.3	6.3	6.3	13	7.8	6.3	5.0	4.5	5.0	5.0
24	5.6	6.3	6.8	6.3	6.5	11	7.3	6.3	5.0	4.3	5.0	5.0
25	5.6	6.3	6.3	6.3	6.8	9.9	7.3	6.3	5.0	4.3	5.0	5.0
26	5.9	6.3	6.1	6.3	6.8	9.2	7.3	6.1	5.1	4.3	5.0	5.0
27	5.9	6.3	5.9	6.5	6.5	8.9	7.1	5.9	5.1	4.3	5.0	5.1
28	5.9	6.3	5.9	7.0	6.5	8.5	6.7	5.5	5.0	4.3	4.8	5.1
29	5.9	6.1	5.9	7.0	6.3	8.0	6.3	5.5	5.0	4.8	4.6	5.0
30	5.9	6.1	5.9	7.8		8.9	6.1	5.5	5.0	5.7	4.6	5.0
31	5.9		6.1	6.8		9.2		5.3		5.3	4.6	
Mean	5.4	6.3	6.1	6.2	9.3	14.4	7.1	6.2	5.0	4.8	4.8	4.9
Ac-Ft	334	374	373	383	536	886	424	380	300	294	298	293

E — Estimated NR — No Record

Total Discharge in Acre-Feet 4675

TABLE 33

DAILY MEAN DISCHARGE
HORSE CREEK AT LITTLE VALLEY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.5	8.8	9.6	10 E	26	14	12	10	6.7	5.6	6.1	5.0
2	8.8	9.2	9.6	9.6 E	28	13	10	11	7.1	5.8	5.6	5.0
3	9.2	9.2	9.6	9.6 E	22	13	8.5	11	6.4	5.8	5.6	5.0
4	9.2	9.6	9.2	9.2 E	18	14	8.8	15	5.3	6.1	5.3	5.0
5	9.2	9.6	9.2	9.2 E	16	19	9.2	13	5.0	6.1	5.3	5.3
6	10	9.2	9.2	9.2 E	15	21	9.6	13	5.3	6.1	5.0	5.6
7	11	8.5	9.2	9.2 E	50	157	9.2	13	5.6	6.4	5.0	5.3
8	11	9.2	9.2	11	347	209	7.1	11	5.6	6.4	5.3	4.8
9	11	8.8	9.2	11	184	70	8.1	10	5.6	6.4 E	5.3	4.8
10	11	8.8	9.2	11	63	33	8.8	9.2	5.3	6.4 E	5.6	5.0
11	10	8.8	9.2	11	36	24	9.2	7.7	5.0	6.4 E	5.3	5.3
12	9.6	8.8	9.2	10	28	21	7.4	7.1	4.8	6.4 E	4.8	6.1
13	9.6	9.2	8.8	11	24	23	7.4	6.7	5.0	6.4 E	4.8	6.1
14	11	8.8	8.5	11	21	21	6.7	6.1	6.4	6.4	4.8	5.8
15	10	8.8	8.8	11	18	18	8.1	5.3	11	6.7	4.8	5.8
16	10	8.8	8.8	12	16	16	11	4.5	12	6.4	4.8	5.8
17	9.2	8.8	8.8	12	14	14	11	4.3	9.2	6.1	5.3	5.8
18	9.2	8.8	8.8	11	14	14	8.5	4.5	7.4	6.1	5.3	5.6
19	9.2	9.2	8.8	11	14	14	5.8	5.0	6.7	6.1	5.3	5.6
20	9.2	9.6	9.2	11	15	14	5.8	7.4	6.1	6.1	5.3	5.6
21	9.2	9.2	9.6	11	15	15	8.5	12	5.0	6.1	5.3	5.6
22	9.6	8.8	10	11	14	15	11	10	4.8	5.8	5.3	5.3
23	9.2	8.8	10	12	13	14	12	8.8	4.5	6.1	5.0	5.3
24	9.2	8.8	11	12	13	14	13	7.7	4.5	6.1	4.8	5.6
25	9.2	8.8	12	13	14	13	12	7.4	4.5	6.4	4.5	5.8
26	9.2	9.2	11	13	16	13	12	8.1	4.8	6.4	4.5	6.1
27	8.8	9.2	10	14	16	10	13	8.1	4.5	6.4	4.8	6.4
28	9.2	8.8	10	15	17	7.7	11	7.4	4.5	6.7	4.8	6.4
29	8.8	8.8	10	17	16	9.6	9.6	8.1	4.8	7.1	4.8	6.4
30	8.5	9.2	10	19		11	7.7	8.1	5.0	7.1	4.8	6.4
31	8.8		10 E	19		12		7.1		6.4	4.8	
Mean	9.5	9.0	9.5	11.8	38.0	28.3	9.4	8.6	5.9	6.3	5.1	5.6
Ac-Ft	586	536	587	726	2188	1738	559	531	354	386	313	332

E — Estimated NR — No Record

Total Discharge in Acre-Feet 8836

TABLE 34

DAILY MEAN DISCHARGE
PIT RIVER AT PITTVILLE

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	NR	NR	65	103	589	259	455	NR	NR	NR	NR	NR
2	NR	NR	70	85	715	248	425	NR	NR	NR	NR	NR
3	NR	NR	68	90	1050	237	400	NR	NR	NR	NR	NR
4	NR	NR	58	74	812	237	381	NR	NR	NR	NR	NR
5	NR	NR	61	74	715	290	386	132 E	NR	NR	NR	NR
6	NR	NR	52	94	657	867	386	NR	NR	NR	NR	NR
7	NR	NR	56	103	1030	2270	381	NR	NR	NR	NR	NR
8	NR	NR	56	112	2410	3420	381	NR	NR	NR	NR	NR
9	NR	NR	60	122	3740	3770	372	NR	NR	NR	NR	NR
10	NR	NR	61	140	4250	2880	363	NR	NR	NR	NR	NR
11	NR	NR	68	156	3640	2260	345	NR	NR	NR	NR	NR
12	NR	NR	65	142	2600	1810	363	NR	NR	NR	NR	NR
13	NR	40	53	122 E	1870	1480	323	NR	NR	7.5E	NR	NR
14	NR	68	55	162 E	1320	1630	310	NR	NR	NR	NR	NR
15	88 E	55	53	156	841	1600	278	NR	9.0E	NR	NR	NR
16	NR	43	63	134	632	1430	259	NR	NR	NR	NR	NR
17	NR	90	70	137	503	1050	278	NR	NR	NR	4.8E	NR
18	NR	66	81	127	450	855	266	NR	NR	NR	NR	NR
19	NR	52	81	127	396	791	240	NR	NR	NR	NR	18 E
20	NR	47	90	137	381	735	134	NR	NR	NR	NR	NR
21	NR	46	98	140	358	696	NR	NR	NR	NR	NR	NR
22	NR	46	114	142	332	670	NR	NR	NR	NR	NR	NR
23	NR	47	122	148	298	638	NR	NR	NR	NR	NR	NR
24	NR	52	142	148	278	601	NR	NR	NR	NR	NR	NR
25	NR	56	165	159	262	571	NR	NR	NR	NR	NR	NR
26	NR	65	165	202	278	531	NR	NR	NR	NR	NR	NR
27	NR	65	174	199	286	492	NR	NR	NR	NR	NR	NR
28	NR	63	151	233	282	471	NR	NR	NR	NR	NR	NR
29	NR	61	168	262	290	466	NR	NR	NR	NR	NR	NR
30	NR	60	171	332		466	NR	NR	NR	NR	NR	NR
31	NR		142	372		455		NR		NR	NR	
Mean			93.5	153	1078	1102						
Ac.-Ft.			5748	9390	62010	67790						

E – Estimated NR – No Record

Total Discharge in Acre-Feet

TABLE 35

DAILY MEAN DISCHARGE
FALL RIVER NEAR DANA

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	392	417	424	417	429	429	671	485	478	434	419	385
2	392	422	424	415	442	429	649	496	470	434	419	385
3	395	422	424	417	434	429	640	501	465	434	419	388
4	395	424	422	415	422	434	646	525	455	432	424	388
5	395	419	424	417	424	483	649	517	450	429	422	388
6	395	424	422	417	429	691	646	504	447	429	419	385
7	397	424	422	417	499	804	637	506	447	427	417	385
8	400	424	424	419	689	884	632	501	445	422	417	385
9	400	424	424	417	729	703	618	493	437	422	415	385
10	400	427	422	415	587	620	612	488	432	419	412	388
11	400	429	422	417	517	584	598	485	432	417	415	385
12	400	427	424	412	493	573	590	485	424	412	419	385
13	397	429	422	410	483	557	568	483	422	410	415	385
14	400	429	422	410	467	546	609	475	419	412	412	385
15	400	429	419	407	462	533	582	467	419	415	412	383
16	402	429	417	405	452	525	560	457	419	417	417	383
17	400	427	419	405	447	528	541	455	422	417	412	383
18	400	427	417	402	457	533	536	452	424	417	410	383
19	402	427	415	402	447	538	546	447	427	422	410	383
20	405	427	417	400	437	544	530	450	427	422	407	383
21	405	429	415	400	434	552	525	467	429	419	405	385
22	410	429	415	400	432	562	522	457	429	422	405	383
23	412	427	417	397	429	573	522	455	429	422	402	383
24	412	429	422	395	427	584	514	483	432	424	400	380
25	412	427	419	397	434	598	506	501	432	422	395	380
26	415	424	417	397	429	620	504	512	434	422	392	380
27	415	427	415	400	429	649	509	512	434	422	392	378
28	412	424	417	402	427	671	504	504	434	419	392	376
29	415	427	417	402	427	629	493	501	432	419	390	376
30	417	427	415	412		694	485	496	430	419	388	373
31	417		417	407		735		488		422	385	
Mean	404	426	420	408	449	588	571	485	436	42[illegible]	408	383
Acr Ft	24810	25340	25810	25080	27000	36170	34010	29860	25940	25930	25110	22800

E – Estimated NR – No Record

Total Discharge in Acre-Feet 327800

TABLE 36

DAILY MEAN DISCHARGE
HAT CREEK NEAR CASSEL

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	551	547	587	561	624	576	576	503	513	479	509	420
2	558	565	551	565	627	565	516	537	515	451	435	427
3	544	565	590	558	587	576	533	499	511	451	439	435
4	537	551	554	554	568	590	568	496	441	444	442	423
5	551	551	587	561	576	561	558	486	457	473	454	417
6	544	554	516	565	565	568	558	476	572	475	402	432
7	565	493	558	565	662	605	558	451	508	469	447	457
8	540	544	594	576	738	594	544	441	523	467	489	441
9	551	605	583	572	685	587	523	509	480	405	449	426
10	547	590	551	554	654	572	520	456	568	387	468	390
11	526	544	547	547	627	554	554	467	520	503	436	429
12	520	576	576	579	616	572	547	469	480	488	445	470
13	530	539	568	568	609	551	544	465	533	463	417	432
14	520	594	568	561	583	594	547	402	488	455	423	454
15	526	526	572	565	518	565	547	460	496	460	486	420
16	509	572	568	551	587	565	506	526	480	369	439	411
17	516	587	568	547	587	565	503	509	508	473	455	414
18	493	551	565	568	605	561	533	470	426	537	430	432
19	509	551	568	558	597	516	551	501	460	481	435	457
20	580	544	561	558	587	513	509	504	565	457	367	411
21	516	579	565	561	583	576	483	457	517	462	432	414
22	513	513	572	568	583	561	489	513	494	462	483	432
23	473	568	568	558	576	558	420	572	496	384	422	417
24	506	561	579	540	576	554	476	540	488	435	437	414
25	444	561	579	554	576	547	544	504	457	499	434	414
26	518	561	572	594	620	496	537	507	426	456	421	441
27	554	551	568	597	635	544	496	508	523	454	405	414
28	533	527	568	554	537	594	493	499	478	441	420	426
29	523	601	568	565	594	550	485	483	482	456	480	420
30	554	597	568	576		601	509	489	465	387	421	432
31	558		565	533		554		526		432	435	
Mean	526	559	568	562	603	564	524	491	496	453	441	427
Ac-Ft	32350	33260	34940	34580	34680	34680	31200	30200	29490	27880	27090	25430

E — Estimated NR — No Record

Total Discharge in Acre-Feet 375800

TABLE 37

DAILY MEAN DISCHARGE
BURNEY CREEK NEAR BURNEY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	14	16	15 E	128	24	104	70	33	11	10	7.1
2	13	18	16	15 E	106	24	95	118	29	12	9.3	7.1
3	12	17	18	15 E	58	25	95	99	24	12	9.0	8.6
4	11	15	18	15 E	47	44	93	103	23	12	9.0	8.3
5	11	14	18	11 E	80	153	93	82	23	11	8.0	8.3
6	11	14	17	11 E	65	214	93	76	23	11	8.3	8.6
7	13	14	16	12 E	206	341	91	86	22	11	8.3	8.6
8	17	14	16	79	458	284	89	79	24	12	8.6	9.0
9	17	18	19 E	33	219	213	86	67	22	12	8.3	9.0
10	15	17	19 E	26	131	155	80	62	21	12	8.0	9.3
11	13	17	19 E	26	83	140	78	58	21	12	7.7	9.3
12	11	14	19 E	21 E	78	132	73	56	21	12	7.7	9.3
13	16	15	19 E	21 E	69	132	67	50	16	13	7.7	9.3
14	14	15	19 E	21 E	54	116	87	46	15	13	7.1	8.3
15	14	17	19 E	21 E	49	106	73	43	16	14	7.1	6.5
16	13	17	19 E	21 E	45	94	65	43	16	14	7.1	6.2
17	12	17	19 E	21 E	43	98	61	38	14	13	6.2	6.8
18	13	19	19 E	21 E	53	102	60	33	14	13	6.2	7.1
19	17	17	19 E	17	41	102	76	29	14	13	6.5	6.8
20	16	17	19 E	18	36	102	64	36	14	13	6.8	6.5
21	15	17	19 E	22	37	102	59	54	15	12	6.8	6.2
22	14	17	19 E	20	34	106	60	39	15	12	6.8	6.2
23	13	16	23	21	29	107	69	47	13	11	6.8	6.5
24	13	16	57	23	27	106	67	63	12	11	7.1	6.8
25	15	19	39	36	31	109	62	65	11	11	7.1	7.1
26	16	17	15 E	56	28	112	63	73	11	10	6.8	7.1
27	17	16	15 E	54	28	111	78	62	11	11	6.5	8.6
28	16	17	15 E	56	23	114	72	55	12	10	6.5	7.7
29	14	16	15 E	50	23	94	70	48	11	10	6.5	7.7
30	14	17	15 E	71		139	67	44	12	10	6.8	8.3
31	14		15 E	41		128		36		11	6.8	
Mean	14.0	16.3	19.7	28.7	79.6	124	76.3	60.0	17.6	11.8	7.5	7.7
Ac-Ft	861	968	1210	1765	4580	7595	4542	3689	1047	724	459	461

E — Estimated NR — No Record

Total Discharge in Acre-Feet 27900

TABLE 38

DAILY MEAN INFLOW
SHASTA LAKE

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.
1	3610	3600	4380	3490	25990	6050	11930	6350	8780	4790	4220	3380
2	3410	4120	4100	3730	19720	6190	10540	7510	8610	2840	3930	3760
3	4180	4150	4070	3260	15240	8230	9690	7730	8040	3040	4070	3810
4	2830	3610	4110	3600	13640	9070	9540	7240	5600	2750	3850	2230
5	3940	3820	3500	4170	16410	27420	9920	7020	4910	4380	4140	2590
6	4360	4000	3650	4340	14620	32430	9680	7250	6920	4900	2280	3300
7	3960	2590	4110	4690	29840	39550	9390	7430	7180	4400	1900	4350
8	4030	4030	4040	5060	62240	27580	9190	6790	6560	4910	3990	4520
9	3950	3500	3940	4770	38740	22090	8500	6470	6620	2450	4040	3860
10	4350	4120	3600	3590	29210	18320	8200	6330	5960	2490	4070	2200
11	2690	4010	3910	7270	21150	16100	8480	6160	4260	4030	3980	2030
12	4470	4200	2940	5450	16680	15320	7960	7340	4020	4890	3750	3580
13	4330	4070	2400	4750	14270	13570	7150	7160	5310	4610	2290	3480
14	3620	3180	3800	5060	11990	12480	7280	6950	5590	4490	1890	3960
15	3540	3270	3920	4370	10790	12180	7720	5770	5540	4560	3360	3600
16	3790	4080	4150	3520	9460	11050	7410	6310	5570	2540	3840	3480
17	3690	3820	4740	3030	8910	10830	6390	5000	5470	2180	3860	2780
18	3820	3930	4340	4130	8680	10420	7270	5890	3580	4060	3820	1830
19	3780	4300	3000	4520	8390	10010	6770	6320	2900	4220	4040	3810
20	3760	4060	2320	4420	7880	9810	7260	5230	3860	4290	2780	3920
21	3940	2940	3720	6920	7880	9800	6370	4130	4820	4250	1750	3260
22	3970	3060	4160	7890	6460	9730	7080	3760	5050	3440	3420	3620
23	3950	4170	5660	4910	6530	9820	5880	9260	4860	2390	2980	3360
24	3990	4340	6850	6260	6420	9580	a 5080	12510	4830	1900	3930	2870
25	2260	4180	4650	12380	6060	9450	5950	12590	3680	4050	3140	b 2780
26	3800	2700	3890	15070	5920	9660	7450	11460	3070	4110	3370	3530
27	3800	3820	3120	15490	6290	11790	10160	10490	4960	4000	3200	3800
28	3860	3850	4450	16680	5580	11010	7560	8930	4720	4010	3400	3690
29	3750	3470	4000	11370	5700	10140	7520	7500	4630	3530	3250	3810
30	3700	4020	4070	10160		16980	5840	7150	5230	2200	3420	3840
31	4140		4510	8370		13720		8410		1990	3290	
Mean	3783	3767	4003	6536	15196	14206	7972	7369	5371	3635	3385	3398
Ac-Ft	232600	224150	246150	401410	874100	873480	473950	453100	319600	223520	208170	202400

E — Estimated NR — No Record

Total Discharge in Acre-Feet 4733130

a 23 hour day.
b 25 hour day.

TABLE 39

DAILY MEAN DISCHARGE
SACRAMENTO RIVER NEAR REDDING

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5090					3540	2980	7130 E	5930	10700	10200	8020
2	4860					3470	2960	7100	6850	10700	10200	7760
3	4860					3540	2960	7040	7410	10700	10200	7520
4	4880					3740 E	2680	7040	7410	10700	10200	7210
5	4880					3700 E	2450	7040	7410	10700	10200	7210
6	4880					3700 E	2470	7070	7440	10700	10200	7210
7	4810					3700 E	2470	7100	7500	10700	10200	7020
8	4810					3700 E	2450	7070	7550	10700	10100	6770
9	4880					3450 E	2450	7020	7990	10700	10200	6740
10	4900	N	N	N	N	3170 E	2470	6990	8500	10700	10200	6770
		O	O	O	O							
11	4900	T	T	T	T	3140 E	2500	6960	8500	10700	10200	6290
12	4860					3120 E	2690	6930	8500	10400	10200	6290
13	4840					3120 E	3030	6930	8530	10200	10200	6320
14	4840	C	C	C	C	3120 E	3530	6930	8500	10200	10200	6320
15	4860	O	O	O	O	3120 E	4770	6960	8750	10200	10200	6290
		M	M	M	M							
16	4860	P	P	P	P	3030	5160	6990	9030	10200	10200	6290
17	4860	U	U	U	U	3010	5160	6930	9420	10200	10200	6290
18	4880	T	T	T	T	3010	5300	6930	9550	10200	10200	6270
19	4840	E	E	E	E	3010	5760	6930	9550	10200	10200	6270
20	4900	D	D	D	D	3010	6040	6930	9550	10200	10000	6270
21	4930					3010	6040	7320	9680	10200	9710	5960
22	4930					3010	6770	7410	10100	10200	9710	5730
23	4930					3010	8050	7470	10100	10200	9680	5710
24	4950					3000	8020	6500	10100	10200	9710	5730
25	4950					3000	8020	5270	10100	10300	9510	5760
26	4900					3000	8020	5180	10100	10200	9220	5730
27	4930					3010	7990 E	5180	10300	10200	8970	5730
28	4900					2980	7270 E	5160	10700	10200	8690	5760
29	4900					3000	7270 E	5200	10700	10200	8720	5730
30	4940					2830	7270 E	5160	10700	10200	8690	5730
31	5020					3000		5130		10200	8410	
Mean	4896					3292	4833	6610	8882	10390	9830	6423
Ac-Ft	301100					196900	287600	406600	548500	638700	604400	382200

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 40

DAILY MEAN DISCHARGE
LITTLE COW CREEK NEAR INGOT

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.2	8.4	19	18 E	850	59	111	103	53	9.6	9.6	4.7
2	9.2	8.8	18	17 E	330	55	106	218	48	10	9.6	7.2
3	9.2	9.2	17	19 E	405	141	104	154	45	10	9.2	8.0
4	8.4 E	10	17	18 E	371	561	106	150	43	9.6	9.2	7.6
5	8.4 E	10	17	19 E	474	893	104	120	36	9.2	8.8	7.6
6	8.0 E	11	18	20	252	584	103	108	35	8.4	8.8	7.2
7	8.0 E	11	17	22	2040	1300	103	125	36	7.6	8.4	6.9
8	8.6 E	11	17	164	2170	630	99	111	46	6.9	8.4	6.9
9	9.2 E	11	17	63	960	406	98	104	33	6.9	8.0	6.9
10	9.6	11	18	51	739	289	93	99	28	7.6	8.0	6.5
11	7.9 E	11	18	394	365	244	95	96	28	7.6	8.8	6.5
12	7.9 E	11	19	112	249	358	84	92	25	7.2	9.2	7.6
13	7.9 E	11	20	55	234	301	76	80	25	7.6	9.2	6.9
14	7.9 E	12	20	47	167	221	84	69	24	7.2	9.2	6.5
15	7.9 E	12	19	40	140	189	72	66	22	6.9	9.2	6.5
16	6.2 E	13	19	35	122	165	64	63	21	5.2	9.2	6.9
17	7.3 E	13	19	33	109	154	63	60	20	6.2	8.0	6.2
18	7.3 E	13	19	32	163	152	61	57	20	5.9	6.9	6.2
19	7.3 E	13	18	35	122	144	65	53	18	5.6	6.9	6.5
20	7.3 E	13	18	39	101	140	60	59	16	4.9	6.9	7.2
21	7.3 E	16	18	135	92	138	60	63	14	4.4	7.2	8.0
22	7.3 E	16	18	600	84	136	60	55	15	4.1	7.2	6.9
23	7.3 E	19	27	212	77	134	89	81	14	5.6	7.2	6.5
24	7.3 E	19	129	131	73	134	99	116	13	6.2	7.2	5.9
25	7.3 E	18	59	266	72	133	114	108	12	7.6	6.9	4.9
26	7.3 E	18	28	286	69	134	106	96	11	7.6	7.6	5.6
27	7.3 E	18	24	400	65	133	182	87	11	8.4	8.0	5.9
28	8.4 E	18	21	431	63	148	122	78	10	7.6	7.6	6.2
29	8.4 E	19	20	156	59	116	125	72	10	9.2	7.6	6.2
30	8.4	20	19	279		146	98	65	9.6	8.8	8.0	6.5
31	8.4		18	120		125		60		8.4	8.4	
Mean	8.0	13.5	24.00	137	380	273	93.5	92.5	24.7	7.4	8.2	6.6
Ac-Ft	491	802	1478	8428	21850	16790	5566	5689	1471	452	505	395

E — Estimated NR — No Record

Total Discharge in Acre-Feet 63920

TABLE 41

DAILY MEAN DISCHARGE
SALT CREEK NEAR BELLA VISTA

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	298	3.8	3.6	1.3	0.1			
2				0	103	3.6	3.1	1.5	0.1			
3				0	397	17	2.7	1.1	0			
4				0	138	84	2.6	1.2	0			
5				0	118	233	2.2	0.8	0			
6				0	73	173	2.2	0.6	0			
7				0	462	228	2.4	0.6	0			
8				0	445	125	2.0	0.5	1.3			
9				0	129	64	1.9	0.3	0.3			
10				0	108	41	1.6	0.3	0.1			
11				45	65	31	1.7	0.2	0			
12	N	N	N	8.9	42	41	1.6	0.1	0	N	N	N
13	O	O	O	2.6	31	42	1.5	0.1	0	O	O	O
14				3.4	22	32	1.3	0.1	0			
15				4.1	17	28	1.2	0	0			
16	F	F	F	2.6	14	23	1.0	0	0	F	F	F
17	L	L	L	1.7	12	18	1.0	0	0	L	L	L
18	O	O	O	1.9	12	15	1.0	0	0	O	O	O
19	W	W	W	1.1	9.3	14	1.2	0	0	W	W	W
20				0.9	7.4	12	0.9	0	0			
21				12	6.4	9.3	0.8	0	0			
22				106	6.0	8.1	0.8	0	0			
23				25	5.4	7.4	3.6	0.5	0			
24				16	4.8	6.4	2.4	9.9	0			
25				48	4.8	5.7	1.7	7.5	0			
26				29	4.6	5.4	1.7	4.0	0			
27				87	4.3	5.4	3.8	1.8	0			
28				159	4.3	5.7	2.2	0.8	0			
29				47	4.1	4.3	1.5	0.6	0			
30				62		6.0	1.2	0.3	0			
31				31		4.1		0.2				
Mean	0	0	0	22.4	87.8	41.8	1.9	1.1	0.1	0	0	0
Ac-Ft	0	0	0	1377	5053	2571	112	68	4	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 9185

TABLE 42

DAILY MEAN DISCHARGE
BEAR CREEK NEAR MILLVILLE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.4	11	12	20	400 E	50	69	78	21	7.2	5.2	6.6
2	9.1	11	13	21	250 E	49	63	86	20	7.2	5.7	6.9
3	9.1	12	13	21	157	70	57	73	19	7.5	6.0	7.2
4	9.1	12	14	20	131	295	53	90	18	7.2	5.5	7.2
5	8.1	12	14	21	207	401	50	70	16	7.8	6.0	7.2
6	7.8	12	14	22	133	266	50	62	17	7.8	5.7	6.6
7	9.8	12	15	24	769	578	49	64	16	7.5	6.3	6.3
8	10	12	16	45	595	382	48	57	27	6.3	5.7	5.7
9	13	12	16	42	373	256	46	54	21	6.6	5.7	6.0
10	12	10	16	52	369	199	45	50	18	6.3	5.5	6.3
11	12	11	17	146	214	174	48	46	16	6.0	5.7	6.3
12	10	12	18	82	182	230	46	44	16	4.9	5.5	7.2
13	10	12	19	42	189	228	44	42	14	5.2	5.5	5.7
14	11	12	17	40	143	159	49	41	14	5.7	6.0	6.0
15	11	12	18	37	123	139	45	36	10	6.3	6.6	5.7
16	11	12	18	34	109	125	42	33	11	6.3	6.3	6.6
17	10	12	18	34	98	112	40	31	10	5.7	6.3	6.9
18	10	12	18	34	99	104	39	30	11	6.6	6.0	6.6
19	9.4	13	18	34	88	97	39	27	9.8	4.9	5.2	5.7
20	9.4	13	18	35	78	89	37	27	9.8	4.5	4.9	5.5
21	9.8	13	19	52	75	83	35	30	9.8	4.2	4.9	5.2
22	10	14	19	139	65	78	36	29	9.8	4.7	5.5	5.2
23	10	14	28	86	65	74	58	30	9.1	4.9	6.0	5.2
24	8.7	14	66	65	61	71	63	40	8.4	4.9	6.0	5.7
25	10	14	65	140	61	67	85	42	8.4	4.9	6.6	6.0
26	9.4	13	31	114	60	65	102	38	9.1	5.7	6.3	6.3
27	10	14	26	83	57	65	223	33	7.8	5.5	6.3	6.6
28	10	13	25	112	55	68	156	30	6.9	5.5	6.9	6.9
29	10	13	24	72	53	63	103	28	7.2	5.5	6.0	7.2
30	10	12	23	122		89	83	26	7.2	4.9	6.0	7.2
31	12		23	76		85		24		4.9	6.9	
Mean	10.0	12.4	21.6	60.2	181	155	63.4	44.9	13.3	5.9	5.9	6.3
Ac-Ft	615	736	1331	3703	10430	9543	3775	2759	790	363	362	376

E — Estimated NR — No Record

Total Discharge in Acre-Feet 34780

TABLE 43

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT BALLS FERRY

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5410					4320	4370	8320	6420	10800	10300	8210
2	5010					4210	4260	8520	7320	10800	10200	7900
3	5010					4480	4170	8350	7900	10800	10200	7730
4	5010					8320	4040	8290	7840	10700	10200	7400
5	5060					13400	3870	8150	7840	10700	10200	7400
6	5060					14200	3700	8100	7840	10700	10200	7400
7	5060					15900	3640	8070	7840	10700	10200	7180
8	5030					11200	3600	8010	7870	10700	10200	6890
9	5130					7540	3620	7930	8290	10700	10300	6910
10	5080					6340	3600	7760	8900	10700	10300	6910
		N	N	N	N							
11	5100	O	O	O	O	5710	3640	7730	8840	10700	10200	6490
12	5030	T	T	T	T	6390	3680	7730	8820	10500	10200	6440
13	4890					7050	4040	7700	8760	10200	10200	6470
14	4920	C	C	C	C	5590	4170	7650	8730	10200	10200	6420
15	4920	O	O	O	O	5200	5460	7650	8870	10200	10300	6390
		M	M	M	M							
16	4890	P	P	P	P	4960	5910	7620	9230	10200	10300	6390
17	4920	U	U	U	U	4780	5910	7590	9470	10200	10300	6360
18	4920	T	T	T	T	4690	5960	7510	9680	10200	10300	6360
19	4920	E	E	E	E	4550	6470	7450	9740	10200	10300	6360
20	4940	D	D	D	D	4500	6780	7480	9710	10100	10100	6360
21	4990					4440	6760	7730	9770	10100	9800	6030
22	5030					4370	7240	7900	10200	10200	9770	5860
23	5030					4320	8870	8100	10200	10100	9800	5830
24	5030					4300	9050	8100	10200	10200	9830	5860
25	5010					4280	9200	6890	10200	10200	9710	5860
26	4960					4260	9230	6760	10300	10200	9290	5830
27	4920					4260	9990	6470	10400	10200	9170	5830
28	4870					4320	8990	6260	10800	10200	8840	5830
29	4870					4210	8610	6160	10800	10200	8870	5780
30	4890					4460	8410	5980	10800	10200	8840	5810
31	5010					4620		5880		10300	8640	
Mean	4997					6167	5908	7543	9119	10390	9912	6550
Ac-Ft	307300					379200	351600	463800	542600	638900	609500	389700

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 44

DAILY MEAN DISCHARGE
NORTH FORK COTTONWOOD CREEK NEAR IGO

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	33 E	7.0	9.5	21 E	957	109	191	106	99	42	17	6.3
2	31 E	7.8	9.5	21 E	358	106	186	106	91	38	13	6.3
3	24 E	7.8	9.5	21 E	829	296	174	99	88	37	12	6.3
4	24 E	9.5	9.5	21 E	372	352	170	96	79	37	11	7.0
5	24 E	8.7	9.5	21 E	862	1930	166	88	77	35	11	7.8
6	24 E	8.7	9.5	21	358	1500	150	85	71	35	11	7.8
7	24 E	8.7	9.5	22	1430	1910	143	88	69	35	10	7.8
8	24 E	8.7	9.5	30	3790	1050	136	85	66	33	9.5	7.8
9	24 E	8.7	9.5	24	1720	752	132	77	66	33	9.5	8.7
10	24 E	8.7	9.5	28	1140	551	129	74	62	31	10	8.7
11	24 E	9.5	10	49	752	439	132	66	57	31	10	8.7
12	24 E	10	12	37	596	439	125	62	55	30	10	7.8
13	24 E	10	21	30	473	382	109	59	52	30	10	7.8
14	17 E	10	18	33	329	302	99	55	50	30	9.5	7.8
15	14 E	10	16	30	280	286	99	55	48	28	9.5	7.8
16	14 E	10	16	28	231	265	96	74	46	28	8.7	8.7
17	14 E	10	16	24	217	236	93	77	46	28	8.7	10
18	14 E	10	16	24	208	226	93	74	46	27	15	9.5
19	14 E	10	15	24	191	213	93	74	44	33	17	9.5
20	14 E	10	15	22	174	191	88	71	37	30	8.7	13
21	14 E	10	15	93	154	182	57	71	37	28	7.0	19
22	14 E	10	16	88	143	174	57	71	35	28	5.6	17
23	11 E	10	33	52	136	178	62	230	33	28	5.6	16
24	10	10	59	62	132	178	57	296	31	25	5.6	9.5
25	9.5	10	40	177	125	174	62	364	31	21	5.6	10
26	9.5	10	31	178	122	178	62	347	33	17	5.6	11
27	9.5	10	27	115	122	174	366	286	31	16	5.6	12
28	8.7	10	27	407	115	199	158	226	33	13	4.9	11
29	8.7	9.5	21	166	112	178	119	125	40	13	4.9	9.5
30	7.8	9.5	21	150		227	106	115	42	15	4.9	9.5
31	7.0		21	109		195		106		18	5.6	
Mean	17.4	9.4	18.1	68.6	566	438	124	123	53.2	28.2	9.1	9.7
Ac-Ft	1068	561	1113	4221	32590	26920	7359	7553	3164	1732	559	574

E — Estimated NR — No Record

Total Discharge in Acre-Feet 87410

TABLE 45

DAILY MEAN DISCHARGE
SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	NR	NR	864	92	222	96	101	NR		
2		0	NR	NR	803	92	222	96	111	NR		
3		0	NR	NR	494	99	218	94	116	NR		
4		0	NR	NR	261	160	222	92	109	NR		
5		0	NR	NR	317	376	237	89	103	NR		
6		0	NR	NR	266	909	237	85	96	NR		
7		0	NR	NR	2520	1280	226	87	90	NR		
8		0	NR	NR	8430	1220	208	90	81	NR		
9		0	NR	NR	3480	722	198	94	74	NR		
10		0	NR	43	1570	497	191	99	68	NR		
11		0	NR	36	849	387	175	105	61	NR		
12	N	NR	NR	NR	590	397	163	111	57	NR	N	N
13	O	NR	NR	21 E	456	517	152	111	54	NR	O	O
14		NR	NR	NR	369	408	143	103	52	NR		
15		NR	NR	NR	312	336	136	94	49	NR		
16	F	NR	NR	NR	266	286	126	92	44	NR	F	F
17	L	NR	NR	NR	232	256	121	87	42	NR	L	L
18	O	NR	NR	NR	208	252	116	85	39	NR	O	O
19	W	NR	NR	NR	186	260	114	83	36	0.8 E	W	W
20		NR	NR	NR	160	269	111	79	32	NR		
21		NR	NR	NR	143	277	107	81	30	NR		
22		NR	NR	54	138	286	107	81	26	NR		
23		NR	NR	53	133	299	109	83	24	NR		
24		NR	NR	51	126	299	107	85	22	0		
25		NR	NR	71	118	294	103	83	20	0		
26		NR	39	115	116	273	107	128	18	0		
27		NR	NR	90	111	260	176	131	18	0		
28		NR	NR	65	105	245	141	116	17	0		
29		NR	NR	79	99	208	107	105	16	0		
30		NR	NR	252		215	96	101	15	0		
31			NR	172		248		99		0		
Mean	0				818	378	157	95.6	54.0		0	0
Ac-Ft.	0				47050	23250	9318	5881	3215		0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 46

DAILY MEAN DISCHARGE
DRY FORK SOUTH FORK COTTONWOOD CREEK NEAR COTTONWOOD

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.
1				0	646	19	30	16	6.1			
2				0	223	18	26	15	5.6			
3				0	340	17	25	15	2.8 E			
4				0	234	146	25	13	2.8 E			
5				0	226	185	23	12	2.8 E			
6				0	135	244	23	12	2.8 E			
7				0	2370	346	23	12	2.8 E			
8				0.6	4360	226	21	10	2.8 E			
9				2.6	1750	165	20	9.8	2.8 E			
10				5.2	391	120	20	8.6	2.8 E			
11				5.2	199	103	19	7.5	2.8 E			
12	N	N	N	5.6	143	157	18	7.0	2.8 E	N	N	N
13	O	O	O	4.0	113	171	17	6.5	2.8 E	O	O	O
14				3.3	86	108	17	6.5	2.8 E			
15				3.6	71	90	15	6.1	0			
16	F	F	F	2.6	60	80	15	5.6	0	F	F	F
17	L	L	L	1.4	51	69	14	5.2	0	L	L	L
18	O	O	O	1.4	49	64	13	5.2	0	O	O	O
19	W	W	W	1.4	46	60	13	5.2	0	W	W	W
20				1.2	42	54	13	4.7	0			
21				4.7	36	51	12	4.7	0			
22				15	32	48	11	4.7	0			
23				10	29	45	11	4.7	0			
24				9.2	26	41	11	4.7	0			
25				30	24	39	12	5.6	0			
26				30	23	37	12	6.5	0			
27				23	22	37	38	8.6	0			
28				20	20	36	27	8.6	0			
29				20	20	32	19	8.1	0			
30				52		33	17	7.5	0			
31				44		34		6.5				
Mean	0	0	0	9.6	406	92.7	18.7	8.2	1.5	0	0	0
Ac-Ft	0	0	0	587	23340	5703	1111	502	90	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 31330

TABLE 47

DAILY MEAN DISCHARGE
SOUTH FORK BATTLE CREEK NEAR MINERAL

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.3	6.4	6.4	7.5 E	126	19	104	78	142	19	9.7	4.4
2	7.6	6.4	6.1	7.5 E	100	17	100	88	151	19	9.7	5.1
3	7.3	6.7	6.1	7.5 E	51	18	102	78	131	17	8.6	9.3
4	7.3	6.7	5.6	7.5 E	35	38	109	114	116	17	8.2	7.3
5	7.3	6.1	6.0 E	7.5 E	44	208	111	82	104	17	8.2	7.3
6	7.3	6.4	6.0 E	8.0 E	46	210	114	80	98	17	7.9	7.6
7	7.6	6.4	6.0 E	15 E	378	435	129	126	90	18	7.6	6.1
8	10	6.1	6.0 E	60 E	608	226	116	121	82	18	6.9	5.6
9	11	6.1	6.0 E	13 E	207	134	111	116	73	16	6.9	5.6
10	9.7	6.1	6.0 E	10 E	114	96	102	121	66	15	6.7	5.8
11	7.9	6.1	6.0 E	9.0	70 E	78	107	129	63	14	6.7	5.6
12	7.3	6.1	6.0 E	8.5 E	60	94	86	134	57	14	6.4	5.1
13	7.3	6.1	6.0 E	8.5 E	51	102	82	114	55	14	6.7	5.1
14	7.3	6.1	6.0 E	8.5 E	40 E	84	102	102	51	14	6.1	5.1
15	9.4	6.1	6.0 E	8.5 E	38	70	82	102	43	14	6.4	6.1
16	8..	6.1	6.0 E	8.5 E	32 E	82	73	102	33	13	6.4	5.8
17	7.7	6.1	6.0 E	8.5 E	29 E	98	73	96	34	13	6.1	5.3
18	7.6	6.1	6.0 E	8.5 E	29 E	94	82	90	33	12	6.4	5.3
19	6.9	6.4	6.0 E	8.5 E	27 E	92	94	82	31	12	6.1	5.3
20	8.6	6.4	6.0 E	8.5 E	25 E	98	86	116	30	11	5.8	5.6
21	7.3	6.7	6.0 E	8.5 E	23 E	104	90	104	27	11	5.8	5.6
22	8.6	6.4	6.0 E	9.4 E	22 E	107	80	80	80	10	6.1	5.6
23	7.3	6.4	13	11 E	21 E	114	77	78	24	10	6.7	5.8
24	6.7	6.4	75	13 E	21 E	121	66	84	23	10	6.7	5.8
25	6.7	6.1	18 E	41	21 E	126	63	116	22	10	5.1	8.6
26	6.4	6.1	12 E	44	21	121	66	134	22	10	5.3	6.7
27	6.4	5.6	4.0 E	30	20	142	88	123	22	10	5.6	5.8
28	6.4	5.8	8.6 E	38	20	136	73	129	21	9.3	5.6	5.8
29	6.1	6.1 E	7.9	33	19	100	62	121	17	8.9	5.6	5.8
30	6.1	6.1	7.5 E	38		204	59	121	16	10	4.6	5.8
31	6.1		7.5 E	32		126		126		10	4.0	
Mean	7.6	6.2	9.4	17.0	79..	119	89.6	106	56.7	13.3	6.6	6.0
Ac-Ft	466	370	576	1045	4558	7327	5334	6520	3374	820	406	356

E — Estimated NR — No Record

Total Discharge in Acre-Feet 31150

TABLE 48

DAILY MEAN DISCHARGE
RED BANK CREEK NEAR RED BLUFF

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	685	7.6	11	9.9	0.1			
2				0	206	6.9	9.1	9.1	0			
3				0	386	7.6	9.1	8.3	0			
4				0	200	22	8.3	6.2	0			
5				0	312	31	9.1	5.0	0			
6				0	126	56	9.1	4.5	0			
7				0	1010	72	8.3	4.0	0			
8				0	970	69	7.6	4.0	0			
9				0	611	43	7.6	3.5	0			
10				0	300	31	7.6	3.1	0			
11				0	165	28	6.9	2.7	0			
12	N	N	N	0	100	130	6.2	2.3	0	N	N	N
13	O	O	O	0	69	132	5.6	1.7	0	O	O	O
14				0	51	64	5.0	1.7	0			
15				0	41	47	4.5	1.7	0			
16	F	F	F	0	33	37	4.5	1.4	0	F	F	F
17	L	L	L	0	26	31	4.0	1.2	0	L	L	L
18	O	O	O	0	26	26	4.0	0.9	0	O	O	O
19	W	W	W	0	22	22	4.0	0.8	0	W	W	W
20				0	18	19	4.0	0.8	0			
21				0	16	17	4.0	0.6	0			
22				0	14	16	4.0	0.6	0			
23				0	12	15	4.5	2.3	0			
24				2.4	11	13	5.0	5.0	0			
25				35	11	13	5.0	3.5	0			
26				30	9.9	12	6.2	3.1	0			
27				12	9.1	13	191	3.1	0			
28				11	8.3	13	64	2.0	0			
29				9.9	8.3	11	18	1.7	0			
30				26		14	12	0.9	0			
31				21		12		0.5				
Mean	0	0	0	4.8	188	33.3	15.0	3.1	0.0	0	0	0
Ac-Ft	0	0	0	292	10820	2045	891	191	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 14240

TABLE 49

DAILY MEAN DISCHARGE
NORTH FORK MILL CREEK NEAR LOS MOLINOS

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.3	0	16	11	3.4	4.5	3.9	2.4	NR			
2	2.0	3.0	16	11	1.8	4.5	3.6	2.6	NR			
3	1.2	6.7	17	11	2.6	4.5	3.6	2.4	NR			
4	1.0	5.4	16	11	2.7	6.0	4.3	2.6	NR			
5	0.8	6.4	15	11	3.6	6.9	5.6	2.4	NR			
6	0.7	7.1	18	11	3.4	3.9	6.4	2.4	NR			
7	1.3	10	18	11	2.4	3.4	6.4	2.4	NR			
8	1.8	12	18	12	1.1	2.6	6.4	2.6	NR			
9	3.6	4.0	15	9.1	2.3	4.3	6.2	2.6	NR			
10	2.6	17	18	8.0	3.4	6.2	6.0	2.4	NR			
11	0.6	17	18	8.9	4.5	6.2	5.4	2.6	NR			
12	0.4	17	18	7.5	4.3	5.2	3.9	2.4	NR	N	N	N
13	0.2	17	18	6.7	2.7	5.4	3.7	2.3	NR	O	O	O
14	0.3	17	17	6.7	4.8	4.6	3.9	2.3	NR			
15	0.3	17	17	6.7	5.4	4.3	3.7	2.3	NR			
16	0.2	15	17	6.7	4.8	3.9	3.4	2.3	NR	F	F	F
17	0.2	15	17	6.9	4.5	3.9	3.4	2.1	0	L	L	L
18	0.1	15	17	6.9	4.3	3.9	3.2	2.0	0	O	O	O
19	0.2	12	16	6.9	4.6	3.9	3.2	1.8	0	W	W	W
20	0.2	14	17	5.0	4.5	3.9	2.3	1.7	0			
21	0.5	16	16	4.1	4.1	3.9	2.7	1.6	0			
22	2.1	18	16	3.7	4.1	4.1	2.6	1.4	0			
23	0.9	18	15	3.4	3.7	4.1	2.4	NR	0			
24	0.1	17	13	3.2	3.6	4.1	2.4	NR	0			
25	0	17	12	4.1	3.6	4.3	2.3	NR	0			
26	0	17	11	3.7	3.7	4.5	2.3	NR	0			
27	0	17	11	3.2	3.7	4.3	2.7	NR	0			
28	0	17	11	3.4	4.1	4.3	2.6	NR	0			
29	0	16	11	3.0	4.6	3.7	2.4	NR	0			
30	0.1	16	11	3.4		4.1	2.4	NR	0			
31	0.1		11	3.7		4.3		NR				
Mean	0.8	13.2	15.4	6.9	3.7	4.4	3.8			0	0	0
Ac-Ft.	47	787	946	424	211	273	225			0	0	0

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

TABLE 50

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT VINA BRIDGE

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6250	5840	4630	4190	21500	6320	7860	10300	7740	11100	10700	8600
2	5390	5870	4550	4170	38600	5810	7550	10400	8470	11100	10700	8250
3	5300	5900	4220	4140	18000	5780	7330	10500	9270	11100	10700	8130
4	5240	5810	4090	4120	22300	8000	7190	10500	9430	11000	10700	7760
5	5390	5040	4090	4290	17400	14300	6990	10300	9400	11000	10700	7570
6	5390	5070	4090	4220	16300	25700	6750	10000	9320	11000	10700	7550
7	5450	5100	4140	4190	29800	24600	6520	9960	9220	11000	10700	7500
8	5390	5100	4220	4290	88200	31900	6350	10200	9170	11000	10800	7260
9	5530	5010	4090	4760	62900	18500	6120	9960	9270	11000	10800	7150
10	5660	5010	4170	4680	37400	13700	5900	9780	9670	11000	10800	7170
11	5690	4930	4170	4760	25200	11400	5840	9640	9860	11000	10900	7080
12	5620	4710	4320	6320	18200	11100	5690	9610	9800	11000	10900	6720
13	5420	4680	4340	4900	15600	16500	5810	9560	9690	10600	10900	6650
14	5420	4660	4270	4660	13800	12300	5900	9450	9670	10500	10900	6650
15	5450	4680	4240	4870	12200	10300	6750	9320	9610	10500	10900	6650
16	5470	4710	4270	4580	11100	9480	7480	9270	9910	10500	10800	6620
17	5470	4760	4240	4420	10100	8930	7710	9220	10000	10500	10800	6650
18	5500	4680	4290	4370	9010	8680	7710	9090	10400	10500	10800	6620
19	5560	4710	4290	4370	8860	8470	7930	9010	10500	10500	10800	6620
20	5560	4680	4290	4340	8350	8320	8350	8980	10300	10400	10800	6620
21	5780	4710	4290	5100	7640	8150	8300	9040	10300	10500	10400	6520
22	5810	4680	4270	8700	7360	8100	8320	9480	10500	10500	10200	6090
23	5810	4660	4340	9300	7220	8080	9670	9510	10700	10500	10200	6030
24	5780	4660	4680	7010	7080	8000	10800	9990	10700	10500	10200	6030
25	5810	4660	5070	9480	6990	7930	10700	9750	10700	10500	10100	6060
26	5810	4600	4850	11000	6850	7860	10800	9140	10700	10500	9750	6060
27	5750	4600	4520	9090	6790	7740	12100	9220	10700	10500	9610	6060
28	5690	4600	4420	10700	6580	7810	13200	8800	11000	10600	9190	6090
29	5590	4600	4320	10400	6450	7550	11200	8500	11100	10600	9090	6060
30	5590	4630	4270	9480		7430	10600	8150	11100	10600	9040	6000
31	5810		4220	9220		8470		7830		10600	8500	
Mean	5593	4912	4331	6133	18890	11200	8114	9499	99940	10720	10390	6827
Ac-Ft.	343900	292300	266300	377100	1087000	688700	482800	584100	591500	658900	638800	406300

E — Estimated NR — No Record

Total Discharge in Acre-Feet 6418000

TABLE 51

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT HAMILTON CITY

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	5450 E	4700	4030	4630	16700	6500	7220	8040	5280	8690	8160	7000
2	4980 E	4810	4030	4650	41700	6080	6650	8100	5780	8660	8130	6950
3	4720 E	4860	3820	4630	19200	6000	6420	8250	6550	8660	8070	6820 E
4	4720 E	4900	3690	4650	18400	6900	6050	8070	6980	8660	8070	6420 E
5	4720 E	4400	3670	4770	17100	12800	5500	8010	6840	8600	8040	6180 E
6	4720 E	4270	3650	4740	17500	23400	5210	7530	6840	8570	8070	6180 E
7	4720 E	4290	3670	4790	21500	21800	4860	7360	6820	8540	8100	6340 E
8	4810 E	4310	3670	4830	79400	31600	4650	7470	6760	8540	8160	6310 E
9	4930 E	4310	3650	5280	71600	19200	4400	7340	6790	8630	8130	6030 E
10	4930 E	4340	3670	5330	38800	14100	4100	7140	7060	8630	8100	6110 E
11	4930 E	4290	3670	5360	27200	11800	3880	7090	7340	8570	8070	6110
12	4900 E	4140	3820	6390	19700	10900	3760	7090	7340	8540	8040	5830 E
13	4900 E	4050	3880	5800	16200	15400	3670	6950	7310	8330	8130	5850
14	4900 E	4070	3860	5380	14800	12700	3690	6950	7250	8100	8100	5850
15	4900 E	4120	3880	5530	13000	10500	3880	6820	7200	8130	8130	5700
16	4900 E	4140	3820	5330	11800	9390	4470	6760	7390	8100	8130	5730
17	4880 E	4200	4050	5140	10800	8780	4770	6680	7640	8070	8190	5780
18	4880 E	4160	4120	5070	9580	8450	4790	6600	7870	8070	8160	5800
19	4880 E	4140	4360	5050	9210	8250	4830	6520	7930	8070	8190	5850
20	4900 E	4140	4380	5020	8750	8130	5260	6470	7900	8010	8220	5850
21	4930 E	4160	4160	5310	8010	7900	5310	6520	7810	7990	8070	5800
22	4950 E	4120	4180	8040	7560	7840	5280	6900	7930	7960	7810	5600
23	4950 E	4140	4470	10100	7360	7760	6260	7200	8190	8010	7810	5430
24	4980 E	4120	4740	7170	7170	7560	7670	7760	8250	8010	7870	5430
25	5000 E	4120	5020	9300	7060	7450	7700	7760	8280	8070	7900	5410
26	5020 E	4050	5090	11400	7000	7310	7810	7000	8310	8070	7700	5480
27	4860 E	4050	4790	9800	6870	7220	9110	7200	8310	8070	7530	5480
28	4560	4050	4720	9980	6760	7000	10900	6870	8480	8010	7360	5450
29	4580 E	4030	4580	11500	6600	6840	9110	6470	8630	8040	7200	5430
30	4580 E	4050	4610	9420		6580	8310	6000	8660	8040	7250	5430
31	4630		4630	10000		7700		5580		8100	7250	
Mean	4862	4251	4141	6593	18870	10770	5851	7113	7457	8275	7940	5921
Ac-Ft	298900	253000	254600	405400	1086000	662000	348100	437400	443700	508800	488200	352300

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5539000

TABLE 52

DAILY MEAN DISCHARGE
LINDO CHANNEL NEAR CHICO

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	209	37						
2				0	283	38						
3				0	164	38						
4				0	137	41						
5				0	162	90						
6				0	155	196						
7				0	473	906						
8				0	1380	520						
9				0	515	167						
10				0	276	85						
11				0	200	51						
12	N	N	N	0	156	40	N	N	N	N	N	N
13	O	O	O	0	134	40	O	O	O	O	O	O
14				0	117	19						
15				0	103	14						
16	F	F	F	0	91	27 E	F	F	F	F	F	F
17	L	L	L	0	84	6.6 E	L	L	L	L	L	L
18	O	O	O	0	78	3.7 E	O	O	O	O	O	O
19	W	W	W	0	74	1.3 E	W	W	W	W	W	W
20				0	68	0						
21				0	63	0						
22				0	60	0						
23				0	57	0						
24				0	54	0						
25				32	49	0						
						0						
26				225	38	0						
27				133	37	0						
28				136	37	0						
29				108	37	0						
30				85		0						
31				72		0						
Mean				25.5	182	74.9						
Ac-Ft				1569	10490	4603						

E — Estimated NR — No Record

Total Discharge in Acre-Feet 16660

TABLE 53

DAILY MEAN DISCHARGE
BIG CHICO CREEK AT CHICO

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.3	6.8	8.2	13	151	26	170	87	24	4.5	0.6	0
2	6.8	4.2	9.2	11	199	26	151	92	21	4.2	0	0
3	6.8	0	10	10	92	30	132	80	23	3.9	0	0
4	7.3	0	9.8	11	64	63	122	72	22	3.3	0	0.3
5	7.3	0	8.7	11	102	264	110	62	25	5.2	0	0.6
6	8.2	0	9.2	11	99	397	97	52	20	1.9	0	0.8
7	8.7	0	9.2	12	359	839	89	50	20	1.7	0.2	0
8	9.2	0	9.2	20	956	627	76	46	19	1.7	0	0
9	9.2	0	11	38	409	389	68	38	18	2.1	0	0
10	9.2	0	11	47	234	288	64	37	18	1.9	0	0
11	8.7	0	12	79	160	237	64	33	23	2.3	0	0
12	6.8	0	13	93	117	225	47	31	17	0.9	0	0.6
13	6.4	0	14	38	83	228	40	30	12	1.6	0	12
14	6.0	0	12	40	52	202	38	26	12	2.1	0.2	0.1
15	5.6	0	13	32	36	181	41	25	11	1.1	0.1	0
16	5.2	1.3	13	24	24	144	37	26	12	0.3	0	0
17	6.0	3.6	13	20	18	147	36	19	12	0.2	0	0.8
18	6.4	4.9	13	19 E	16	134	33	17	11	2.1	0	0.8
19	6.8	5.6	13	18 E	13	125	33	17	12	0	0	0.6
20	7.7	7.3	13	18 E	10	116	31	17	11	0	0	0.6
21	7.3	8.2	13	45	8.7	102	30	17	7.3	0	0.1	0.2
22	7.3	9.2 E	13	163	6.8	85	29	19	9.8	0	0	0.4
23	7.3	8.7	16	146	5.2	80	32	25	6.8	0	0	0.2
24	6.8	6.4 E	32	122 E	4.2	74	37	49	3.3	0.6	0	0
25	7.3	6.0	49	198 E	8.6	70	33	64	4.9	0	0	0.3
26	6.8	6.4	22	202 E	29	68	33	62	7.3	0	0	0.3
27	6.8	6.8	16	66	29	62	133	47	8.1	0	0	0
28	6.4	7.7	15	78	29	83	152	43	4.2	0	1.6	0.1
29	6.0	8.2	13	40	27	74	131	40	4.9	0	0.1	0.5
30	6.0	8.2	13	21		121	110	33	4.5	0	0	0.8
31	6.0		14	13		195		30		2.3	0	
Mean	7.1	3.7	14.2	53.5	115	184	73.3	41.5	13.5	1.4	0.1	0.3
Ac-Ft	436	217	874	3291	6628	11310	4362	2551	802	87	6	18

E — Estimated NR — No Record

Total Discharge in Acre-Feet 30580

TABLE 54

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	13	29	14	6.6	2.5	0.1		0
2				NR	12	25	12	6.6	2.2	0		0
3				NR	11	24	11	6.2	1.9	0		0
4				NR	11	22	9.8	5.8	1.7	0		0
5				NR	11	20	9.8	5.4	1.7	0		0
6				NR	10	18	9.3	5.1	1.7	0		0
7				NR	9.8	18	8.9	4.7	1.7	0		0
8				NR	9.8	17	8.4	4.7	1.7	0		0
9				NR	11	15	7.9	4.3	1.5	0		0
10				36	20	15	7.9	4.3	1.5	0		0
11			NR	23	32	14	7.9	4.0	1.5	0		0
12			NR	277	24	14	7.5	3.7	1.5	0		0
13			NR	81	20	14	7.5	4.0	1.3	0	N	0
14			NR	35	41	13	7.1	4.0	1.3	0	O	0
15			NR	18	75	12	7.1	4.0	1.3	0		0
16			NR	21	510	12	6.6	3.7	1.3	0	F	0
17			NR	20	476	11	6.6	4.0	1.1	0	L	0
18			NR	17	251	11	6.6	3.7	1.1	0	O	6.2
19			NR	15	135	10	6.2	3.3	0.9	0	W	4.0
20			NR	14	117	10	6.2	3.3	0.7	0		1.9
21			NR	13	129	10	6.2	2.7	0.6	0		1.1
22			NR	12	92	10	6.2	3.0	0.3	0		0.7
23			NR	12	70	11	5.4	4.0	0.2	0		0.7
24			NR	14	56	11	5.4	3.7	0.3	0		0.6
25			NR	19	47	10	15	3.7	0.3	0		0.4
26			NR	16	42	12	15	3.7	0.7	0		0.4
27			NR	16	35	10	8.9	3.7	0.7	0		0.4
28			NR	18	31	9.8	7.1	3.3	0.6	0		0.7
29			NR	16 E		9.8	6.6	2.7	0.3	0		0.6
30			NR	15		22	6.6	2.5	0.2	0		0.6
31			NR	14		17		2.5		0		
Mean					82.2	14.7	8.4	4.1	1.1	0.0	0	0.6
Ac.-Ft.					4565	906	497	252	68	0	0	36

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

TABLE 55

DAILY MEAN DISCHARGE
LITTLE CHICO CREEK NEAR CHICO

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	0.6	0.4	1.3	1.3	153	6.6	13	13	6.6	1.1		
2	0.6	0.6	1.3	1.3	76	5.8	12	12	6.2	0.9		
3	0.6	0.7	1.1	1.1	61	5.4	11	11	5.8	0.9		
4	0.7	0.9	1.1	1.1	48	13	11	10	5.1	0.4		
5	0.7	0.9	1.1	0.9	91	78	10	9.8	4.7	0.3		
6	0.9	0.7	1.1	0.9	56	62	10	8.9	4.3	0.3		
7	1.1	0.7	1.3	0.9	378	488	10	8.4	4.0	0.3		
8	1.1	0.7	1.3	1.3	360	169	9.8	8.4	3.3	0.3		
9	1.1	0.7	1.3	2.9	129	86	9.3	8.4	3.0	0.3		
10	1.1	0.7	1.3	8.8	110	55	8.9	8.4	2.7	0.2		
11	0.9	0.7	1.3	24	69	42	8.9	7.9	2.5	0.2		
12	0.9	0.7	1.7	12	50	56	9.3	7.9	2.2	0.1		
13	0.6	0.7	2.5	5.1	44	51	8.4	7.9	1.7	0.1	N	N
14	0.6	0.7	1.9	13	36	36	8.4	7.9	1.7	0.1	O	O
15	0.6	0.9	1.7	8.9	30	29	8.4	7.9	1.7	0		
16	0.6	0.9	1.7	6.6	26	24	7.9	7.5	1.5	0	F	F
17	0.4	1.1	1.7	5.8	23	22	7.5	7.5	1.7	0	L	L
18	0.4	1.1	1.7	5.8	21	19	7.5	7.1	1.7	0	O	O
19	0.3	1.1	1.7	5.4	19	17	7.5	7.1	1.7	0	W	W
20	0.3	1.1	1.7	6.2	17	15	7.1	7.1	1.5	0		
21	0.3	1.3	1.5	27	15	15	7.1	7.1	1.3	0		
22	0.4	1.1	1.5	47	14	14	7.1	7.1	1.3	0		
23	0.4	1.1	1.9	25	12	12	7.1	7.1	0.9	0		
24	0.3	1.1	6.0	35	11	12	7.1	7.1	0.9	0		
25	0.3	1.3	5.5	79	10	12	6.6	7.1	0.9	0		
26	0.3	1.3	2.7	64	9.8	11	6.6	7.1	0.9	0		
27	0.4	0.9	2.2	45	8.9	12	13	7.1	0.9	0		
28	0.6	1.1	1.9	47	7.9	12	17	7.1	0.9	0		
29	0.4	1.1	1.9	31	7.5	11	17	7.1	1.1	0		
30	0.4	1.3	1.7	26		15	15	7.1	1.1	0		
31	0.4		1.7	22		15		7.1		0		
Mean	0.6	0.9	1.9	18.1	[illegible]	4[illegible].8	9.7	8.1	2.9	0.[illegible]	0	0
Ac.-Ft.	[illegible]	[illegible]	116	1113	375[illegible]	[illegible]918	574	500	146	11	0	0

E – Estimated NR – No Record Total Discharge in Acre-Feet 9124

TABLE 56

DAILY MEAN DISCHARGE
LITTLE CHICO CREEK DIVERSION NEAR CHICO

In second feet

Date	1959			1960								
	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					2.4	23						
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												
15												
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					0	0						
24					0	0						
25					0	0						
26					0	0						
27					0	0						
28					0	0						
29					0	0						
30						0						
31						0						
Mean	0	0	0	0	0.1	0.7	0	0	0	0	0	0
Ac-Ft.	0	0	0	0	5	46	0	0	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 51

TABLE 57

DAILY MEAN DISCHARGE
GRINDSTONE CREEK NEAR ELK CREEK

In second feet

Date	1959			1960								
	Oct	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	1.0	1.9	4.0	519	NR	260	97	81	12 E	0.4	0.2
2	1.0	1.2	1.9	3.2	402	NR	235	109	72	12 E	0.6	0.3
3	1.0	1.2	2.0	3.5	211	NR	211	97	67	11 E	0.4	0.3
4	1.0	1.2	2.0	3.0	181	NR	211	91	55	10 E	0.6	0.3
5	1.0	1.2	2.0	3.7	300	NR	201	81	46	9.5 E	0.6	0.3
6	1.1	1.2	2.0	3.7	215	NR	201	76	43	8.6	0.6	0.4
7	1.1	1.3	2.2	3.7	2600 E	NR	180	81	40	7.9	0.6	0.4
8	1.1	1.3	2.2	4.2	6810 E	NR	180	81	38	5.7 E	0.6	0.4
9	1.1	1.3	2.2	18	2600 E	NR	180	76	36	4.1 E	0.6	0.4
10	1.2	1.4	2.2	13	1030 E	NR	162	76	34	2.7 E	0.4	0.4
11	1.2	1.4	2.4	12	NR	NR	153	81	33 E	1.7	0.3	0.4
12	1.3	1.3	2.4	14	NR	NR	137	81	33 E	1.7	0.4	0.6
13	1.4	1.4	2.8	9.7	NR	NR	130	81	33 E	1.5	0.4	0.6
14	1.4	1.4	3.2	9.7	NR	479 E	130	67	33 E	1.5	0.6	0.6
15	1.4	1.4	3.7	9.2	NR	NR	116	63	32 E	1.3	0.4	0.6
16	1.2	1.6	3.5	7.4	NR	63 E	109	63	29	0.4	0.4	0.6
17	1.2	1.6	3.0	7.0	NR	76	97	59	28	0.3	0.4	0.6
18	1.2	1.7	3.0	6.2	NR	86	91	52	27	0.4	0.4	0.6
19	1.3	1.7	3.0	6.2	NR	103	86	43	27	0.3	0.3	0.6
20	1.3	1.9	3.0	6.2	NR	122	81	46	26	0.2	0.2	0.6
21	1.3	1.9	3.0	13	NR	137	81	46	23	0.4	0.3	0.6
22	1.2	1.9	3.0	25	NR	171	81	40	20	0.7	0.3	0.7
23	1.2	2.0	5.9	20	NR	235 E	76	43	18	0.4	0.3	0.7
24	1.2	1.4	12	26	NR	211	72	55	17	0.3	0.3	0.9
25	1.2	1.7	26	56	NR	223	67	91	16 E	0.3	0.2	0.9
26	1.1	1.7	14	79	NR	201	91	153	16 E	0.1	0.2	0.6
27	1.1	1.7	8.7	53	NR	201	122	145	16 E	0.2	0.2	0.6
28	1.1	1.9	6.6	97	NR	201	103	122	16	0.6	0.2	0.6
29	1.1	1.9	5.5	70	NR	180	91	116	14 E	0.6	0.2	0.6
30	1.1	1.9	4.8	190		432	97	97	13 E	0.4	0.2	0.4
31	1.0		4.5	99		287		86		0.3	0.2	
Mean	1.2	1.5	4.7	28.2			134	80.5	32.7	3.1	0.4	0.5
Ac-Ft	72	91	287	1737			7997	4949	1948	193	23	31

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

TABLE 58

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT ORD FERRY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5540	4900	4170	4690	12700	7110	7830	8670	5760	8690	8170	7130
2	5300	4940	4150	4710	44900	6800	7150	8600	6000	8640	8080	6880
3	5000	4920	4000	4710	23400	6620	6820	8780	6720	8640	8010	7030
4	4950	4920	3840	4690	24800	6940	6440	8530	7230	8640	8030	6620
5	4940	4610	3830	4750	20200	12400	5970	8580	7170	8620	7990	6350
6	4970	4400	3810	4770	21300	23600	5670	7970	7190	8600	8030	6330
7	4990	4400	3810	4790	19300	25500	5330	7770	7090	8580	8120	6420
8	4970	4390	3840	4800	80100	37000	5060	7900	7030	8580	8190	6390
9	4990	4350	3840	5070	94600	25700	4890	7770	7050	8550	8170	6170
10	5020	4370	3890	5240	51400	18100	4580	7570	7280	8580	8120	6190
11	5060	4390	3870	5210	34900	14500	4320	7510	7620	8530	8170	6230
12	5040	4250	3990	5950 E	24500	13100	4200	7470	7620	8530	8120	6020
13	4970	4180	4030	5980	19600	17800	4080	7340	7620	8410	8170	5910
14	4940	4200	4030	5380	17600	16400	4030	7320	7530	8140	8190	5970
15	4940	4200	4030	5470	15200	13100	4110	7230	7490	8120	8210	5840
16	4940	4200	4020	5350	13700	11600	4590	7110	7550	8100	8190	5840
17	4940	4310	4090	5160	12500	10600	4890	7050	7790	8010	8230	5910
18	4870	4280	4230	5070	11200	10000	4950	6920	7880	8050	8170	5890
19	4770	4230	4400	5040	10500	9650	5020	6900	8010	8050	8190	5950
20	4790	4260	4450	5020	9900	9360	5400	6860	7990	7990	8210	5930
21	4850	4280	4370	5120	9040	9070	5630	6880	7900	7970	8140	5910
22	4940	4250	4450	7880	8510	8640	5650	7250	7900	7970	7860	5740
23	4920	4250	4590	10400	8230	8350	6140	7530	8120	7970	7770	5580
24	4940	4250	4720	7570	7970	8120	7750	7940	8260	7970	7830	5540
25	4940	4250	4970	9310	7770	8010	8080	8210	8280	8010	7860	5540
26	4920	4180	5070	12300	7590	7860	8280	7510	8260	8010	7750	5560
27	4920	4180	4850	10300	7530	7750	9140	7660	8300	8030	7550	5560
28	4840	4180	4750	9600	7340	7550	11500	7300	8350	8010	7490	5540
29	4800	4170	4690	12100	7230	7440	10100	6960	8620	7970	7280	5530
30	4820	4180	4720	9400		7050	9000	6520	8670	7970	7320	5510
31	4820		4720	10300		7990		6140		8010	7280	
Mean	4956	4362	4265	6649	21850	12380	6220	7540	7609	8256	7964	6034
Ac-Ft	304700	259600	262300	408900	1257000	761100	370100	463600	452800	507700	489700	359000

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5896000

TABLE 59

DAILY MEAN DISCHARGE
MOULTON WEIR SPILL TO BUTTE BASIN

In second feet

Date	1959			1960								
	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					7.1							
9					4250							
10					2470							
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	0	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					0							
30												
31												
Mean	0	0	0	0	232	0	0	0	0	0	0	0
Ac-Ft	0	0	0	0	13340	0	0	0	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 13340

TABLE 60

DAILY MEAN DISCHARGE
SACRAMENTO RIVER OPPOSITE MOULTON WEIR

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5770					8660	9640	9090	5350	8610	7920	7030
2	5600					8300	8850	8770	5180	8610	7770	6820
3	5100					7920	8320	8960	5900	8660	7690	6960
4	4960					7920	7940	8770	6590	8720	7670	6570
5	4980					11100	7250	8850	6660	8720	7690	6210
6	5000					16900	6870	8270	6640	8560	7690	6180
7	5020					22700	6230	7820	6710	8510	7790	6270
8	5040					28000	5830	7770	6500	8480	7820	6340
9	5020					28400	5560	7820	6450	8450	7790	6120
10	5160	N	N	N	N	20600	5120	7540	6660	8480	7740	6050
		O	O	O	O							
11	5200	T	T	T	T	16200	4570	7370	7060	8480	7790	6180
12	5250					14200	4260	7230	7180	8430	7690	6050
13	5180					15300	4040	7150	7230	8430	7690	5920
14	4960	C	C	C	C	17400	3910	7110	7060	7990	7740	5960
15	4920	O	O	O	O	14500	3830	6960	7080	7920	7770	5860
		M	M	M	M							
16	4940	F	F	F	F	13000	4310	6870	7150	7940	7770	5830
17	4980	U	U	U	U	12200	4770	6750	7440	7920	7870	5940
18	4940	T	T	T	T	11600	4940	6640	7470	7940	7840	5990
19	4960	E	E	E	E	11300	4860	6430	7820	7920	7870	5960
20	4940	D	D	D	D	11000	5120	6360	7870	7820	7920	5990
21	5020					10700	5350	6340	7820	7790	7920	5990
22	5120					10400	5290	6570	7690	7820	7620	5860
23	5230					10100	5350	7060	7940	7740	7420	5600
24	5230					9870	7080	7350	8090	7740	7470	5540
25	5270					9700	8020	8020	8170	7790	7540	5510
26	5230					9640	8270	7590	8170	7820	7490	5490
27	5230					9450	8850	7250	8220	7840	7230	5470
28	5120					9150	10600	7130	8170	7870	7200	5430
29	5080					8980	10800	6750	8510	7740	6960	5410
30	5040					8530	9690	6230	8610	7670	6960	5390
31	5040					9070		5730		7720	6990	
Mean	5114					12990	6517	7373	7246	8133	7623	5997
Ac-Ft.	314400					798900	387800	453300	431200	500100	468700	356900

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	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0	0						
2					458	0						
3					2220	0						
4					0	0						
5					0	0						
6					0	0						
7					0	0						
8					5840	608						
9					32100	1300						
10					32600	0						
11					12000	0						
12	N	N	N	N	955	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					0	0						
24					0	0						
25					0	0						
26					0	0						
27					0	0						
28					0	0						
29					0	0						
30						0						
31						0						
Mean	0	0	0	0	2971	61.5	0	0	0	0	0	0
Ac-Ft	0	0	0	0	170900	3784	0	0	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 174700

TABLE 62

DAILY MEAN DISCHARGE
BUTTE CREEK NEAR DURHAM

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	36	5.1	29	79	673	319	716	244	114	12	4.4	3.1
2	31	4.4	34	82	978	319	580	267	101	13	4.8	2.6
3	23	7.6	33	66	544	310	505	236	97	11	4.8	2.9
4	19	23	29	72	456	410	468	222	93	8.7	4.8	3.1
5	14	40	29	79	668	1100	432	201	82	7.2	4.8	4.4
6	10	38	28	72	630	1400	399	195	69	5.1	4.4	4.8
7	14	40	28	72	1610	3140	399	201	72	5.5	3.7	3.4
8	16	44	29	122	4290	2370	378	215	60	5.1	4.1	3.1
9	26	36	33	182	1930	1430	358	208	57	5.1	4.4	2.9
10	22	26	36	176	1230	1070	348	195	43	4.1	4.4	2.9
11	14	28	29	208	902	932	358	188	30	3.7	4.1	3.1
12	14	26	36	229	744	902	348	182	45	3.7	3.7	3.1
13	16	25	58	142	682	925	319	182	31	7.2	3.7	4.1
14	22	28	48	142	558	815	310	176	20	5.5	3.7	4.4
15	18	29	56	137	480	744	251	170	20	4.8	3.7	4.4
16	18	29	48	114	432	695	222	153	24	3.7	3.7	4.8
17	26	29	52	97	399	630	251	148	24	2.9	4.1	4.8
18	19	29	52	105	368	600	236	137	32	2.9	4.1	4.8
19	20	28	48	101	358	572	215	132	30	3.1	5.9	4.4
20	7.6	29	48	90	338	531	201	123	27	2.9	5.9	4.1
21	7.6	22	50	123	319	505	176	137	23	2.9	4.1	4.8
22	7.6	22	50	244	310	492	153	128	21	3.1	4.1	4.8
23	9.5	36	56	267	310	444	148	137	16	3.1	3.4	4.8
24	9.5	33	137	201	301	432	153	201	12	2.9	3.7	4.4
25	7.6	33	229	512	301	432	142	222	13	2.9	3.4	4.4
26	8.5	29	132	807	310	432	128	251	14	2.9	3.4	4.8
27	6.7	23	97	421	310	444	358	229	14	2.9	3.4	4.8
28	5.1	23	86	518	301	662	328	201	14	3.7	4.1	5.9
29	4.4	26	82	348	310	531	244	182	13	3.7	3.7	4.8
30	5.1	26	86	267		749	236	164	13	4.1	3.7	4.4
31	5.9		82	244		873		142		4.4	3.7	
Mean	14.9	27.2	60.3	204	726	813	312	186	40.8	5.0	4.1	4.1
Ac-Ft	919	1621	3709	12530	41740	50000	18580	11440	2428	305	254	244

E — Estimated NR — No Record

Total Discharge in Acre-Feet 143800

TABLE 63

DAILY MEAN DISCHARGE
BUTTE SLOUGH AT OUTFALL GATES

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	142	121	64	87	94	692	648	924	43	14	158
2	0	137	122	64	0	113	610	637	827	42	19	160
3	0	137	121	64	0	138	654	580	527	44	19	158
4	0	136	126	63	0	138	623	514	330	87	19	166
5	0	137	129	63	0	0	554	497	174	101	19	174
6	0	156	129	724	0	0	623	415	217	58	30	173
7	0	161	129	101	0	0	598	344	221	43	38	182
8	0	162	130	44	0	0	428	235	114	62	39	221
9	0	159	93	220	0	0	612	228	60	65	38	213
10	0	156	60	459	0	0	232	245	68	31	50	219
11	0	156	62	554	0	19	519	306	68	0	56	204
12	0	163	62	629	0	981	476	327	111	0	55	230
13	69	171	61	723	0 E	849	478	382	82	0	57	233
14	31	176	60	981	574 E	0	452	425	86	0	58	246
15	44	176	60	925	874 E	635	317	493	76	0	59	265
16	75	175	60	931	937	937	258	515	66	39	72	273
17	120	172	60	887	937	1060	231	519	66	46	74	265
18	157	173	60	698	988	1090	157	471	50	47	46	234
19	425	171	60	547	1060	1060	101	504	60	28	36	226
20	181	143	58	484	1010	988	72	531	79	7.5	36	218
21	173	122	59	396	988	912	28	520	59	0	17	192
22	159	123	61	277	956	862	0	497	36	0	0	174
23	159	122	60	252	837	811	65	527	30	0	0	154
24	156	121	62	667	723	755	95	634	12	0	0	112
25	150	123	63	736	566	673	76	742	0	0	0	87
26	149	125	64	352	415	598	56	752	0	0	0	85
27	154	123	65	629	314	535	177	884	0	0	0	83
28	158	123	66	962	252	484	803	865	0	0	27	84
29	160	121	66	616	176	491	289	945	22	0	69	83
30	158	121	67	824		566	434	922	37	0	82	85
31	150		65	811		497		884		0	98	
Mean	91.2	146	79.4	508	430	493	357	548	147	24.0	36.4	179
Ac-Ft	5609	8694	4881	31230	24730	30320	21240	33700	8731	1475	2235	10630

E — Estimated NR — No Record

Total Discharge in Acre-Feet 183500

TABLE 64

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT MERIDIAN

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5970					8130	8930	8380	6490	7790	7400	6820
2	5830					7980	8760	8090	6130	7810	7390	6770
3	5540					7710	8330 E	8070	6370	7840	7310	6870
4	5310					7640	8010 E	8140	6770	7920	7270	6680
5	5240					8620	7640	8110	6840	7950	7260	6410
6	5190					12900	7190 E	7970	6720	7920	7270	6280
7	5240					19600	6840 E	7560	6790	7790	7340	6300
8	5290					23300	6480	7340	6650	7780	7370	6410
9	5250					29000 E	6170	7400	6450	7790	7390	6500
10	5360	N	N	N	N	22700	5830	7310	6510	7780	7360	6380
		O	O	O	O							
11	5440	T	T	T	T	18700	5450	7190	6690	7760	7380	6410
12	5470					16000	5100	7110	6940	7710	7340	6390
13	5440					15000 E	4860	7110	7030	7720	7310	6220
14	5300	C	C	C	C	17100	4680	7170	6940	7580	7370	6160
15	5210	O	O	O	O	15900	4490	7170	6870	7420	7340	6170
		M	M	M	M							
16	5220	P	P	P	P	13900	4480	7110	6870	7450	7360	6110
17	5240	U	U	U	U	12700	4870	7050	7000	7480	7400	6120
18	5230	T	T	T	T	11800	5030	6990	7080	7460	7400	6130
19	5180	E	E	E	E	11200	4900	6860	7240	7410	7370	6110
20	5090	D	D	D	D	10800	4980	6860	7350	7370	7370	6120
21	5100					10500	5180	6820	7340	7330	7380	6090
22	5150					10100	5140	6860	7200	7370	7240	6010
23	5250					9720	5160	7210	7270	7290	7070	5840
24	5260					9470	5990	7490	7430	7290	7030	5720
25	5250					9220	6850	7950	7500	7310	7090	5670
26	5240					9030	7090	8150	7540	7300	7090	5650
27	5220					8870	7400	7810	7550	7300 E	6960	5650
28	5150					8690	8410	7840	7530	7330 E	6910	5630
29	5060					8570	9680	7660	7620	7290 E	6830	5590
30	5020					8380 E	8960	7320	7770	7290 E	6770	5580
31	5000					8250 E		6860		7290 E	6780	
Mean	5282					12630	6429	7450	7016	7552	7231	6160
Ac-Ft.	324800					776500	382600	458100	417500	464400	444600	366500

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 65

DAILY MEAN DISCHARGE
[illegible]CLAMATION [illegible] ICT [illegible] DRAINAGE [illegible]

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	7.4	7.4		0	0	0	55	33	18	22	150
2	11	7.4	7.4		19	0	0	62	20	20	28	130
3	11	7.4	7.4		7.6	0	0	59	23	22	33	90
4	11	7.4	7.4		0	0	0	58	15	70	39	92
5	7.4	3.7	7.4		0	0	0	78	17	76	61	92
6	11	7.4	3.7		17	0	0	54	12	70	52	97
7	11	7.4	3.7		13	0	0	53	21	65	59	107
8	11	3.7	3.7		20	0	0	44	9.5	64	59	105
9	11	7.4	3.7		26	0	0	41	15	54	56	102
10	11	0	3.7		10	0	0	41	4.9	46	54	92
11	11	0	3.7		14	8.6	0	51	14	59	56	75
12	7.4	0	7.4	N	15	15	0	53	15	62	59	71
13	7.4	3.7	3.7	O	15	0	0	52	22	60	56	73
14	7.4	3.7	3.7		11	0	0	50	23	52	49	63
15	7.4	3.7	7.4		17	9.2	0	45	23	55	46	63
16	7.4	3.7	3.0	F	18	0	0	44	19	61	34	50
17	7.4	3.7	0	L	18	18	0	41	9.6	62	38	33
18	7.4	3.7	0	O	6.2	0	0	43	5.9	57	42	34
19	7.4	3.7	0	W	6.3	0	0	43	5.9	57	49	34
20	7.4	3.7	0		0	13	0	39	5.9	55	61	34
21	7.4	3.7	0		13	0	0	37	4.1	53	72	17
22	7.4	3.7	0		0	0	0	43	0	58	63	54
23	7.4	3.7	0		0	0	0	73	0	64	63	55
24	7.4	7.4	0		0	16	0	98	0	64	71	34
25	7.4	3.7	0		6.4	0	69	132	0	60	72	14
26	7.4	3.7	0		0	0	19	137	0	58	81	9.9
27	3.7	3.7	0		0	13	43	113	0	51	84	8.8
28	7.4	3.7	0		0	0	102	77	0	44	82	8.8
29	7.4	7.4	0		0	0	85	57	0	42	112	10
30	7.4	7.4	0			0	72	46	0	32	142	9.9
31	7.4		0			0		32		26	142	
Mean	8.4	4.6	2.7	0	8.7	3.0	13.0	59.7	10.6	52.8	62.5	60.3
Ac-Ft	519	272	167	0	501	184	774	3671	630	3247	3842	3586

E — Estimated NR — No Record

Total Discharge in Acre-Feet 17390

TABLE 66

DAILY MEAN DISCHARGE
TISDALE WEIR SPILL TO SUTTER BYPASS

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0	0						
2					0	0						
3					2930	0						
4					439	0						
5					0	0						
6					0	0						
7					0	0						
8					1180	1280						
9					9710	5550						
10					12000	1790						
11					9590	5.2						
12	N	N	N	N	6580	0	N	N	N	N	N	N
13	O	O	O	O	1570	0	O	O	O	O	O	O
14					69	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					0	0						
24					0	0						
25					0	0						
26					0	0						
27					0	0						
28					0	0						
29					0	0						
30						0						
31						0						
Mean	0	0	0	0	1520	278	0	0	0	0	0	0
Ac-Ft	0	0	0	0	87410	17110	0	0	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 104500

TABLE 67

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO TISDALE BYPASS

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	15	15	15	17	9.8	7.3	48	37	53	41	59
2	19	15	15	15	18	3.8	7.3	40	30	55	43	59
3	19	15	16	16	16	9.6	7.4	40	22	55	43	59
4	16	15	15	16	20	12	2.5	42	22	55	43	58
5	16	14	15	17	32	12	0	41	22	55	43	56
6	16	16	16	16	35	8.3	0	41	33	45	42	55
7	19	16	16	16	35	16	0	41	35	41	43	59
8	16	16	16	16	38	19	0	41	41	41	45	58
9	19	16	16	15	39	17	0	40	44	42	45	58
10	16	16	16	15	79	15	0	39	43	42	45	59
11	16	16	16	15	53	20	11	42	43	41	45	61
12	16	16	16	16	59	24	11	46	42	45	53	63
13	16	15	16	15	45	25	9.1	45	39	44	53	55
14	16	16	15	15	48	21	7.4	45	38	44	54	52
15	16	16	16	15	48	26	6.8	45	41	45	51	49
16	16	16	16	17	48	22	6.9	46	36	45	53	26
17	19	15	15	16	33	21	7.0	46	36	45	48	32
18	16	16	15	14	24	21	10	42	36	47	43	27
19	16	16	15	15	31	20	11	45	36	51	43	21
20	16	16	17	15	30	14	10	34	39	47	44	25
21	16	16	19	29	25	16	6.6	33	38	43	42	22
22	16	15	17	13	25	0	13	34	25	42	43	23
23	16	14	17	15	20	4.4	15	44	36	42	53	23
24	16	16	23	15	7.8	7.3	15	51	40	42	42	22
25	16	16	29	15	20	8.7	30	53	39	42	48	22
26	16	16	17	17	16	9.8	33	50	39	39	48	22
27	16	16	17	16	15	9.9	39	45	41	49	48	21
28	16	16	16	15	15	10	56	46	42	43	50	23
29	16	16	16	16	11	8.2	53	48	42	39	58	22
30	13	15	14	17		2.3	46	49	44	40	50	23
31	13		14	17		6.2		46		39	56	
Mean	16.4	15.6	16.5	16.0	31.1	13.5	14.0	43.5	36.7	45.1	47.0	40.5
Ac-Ft	1008	928	1016	982	1791	832	836	2674	2184	2773	2892	2408

E — Estimated NR — No Record

Total Discharge in Acre-Feet 20320

TABLE 68

DAILY MEAN DISCHARGE
SACRAMENTO RIVER ABOVE RECLAMATION DISTRICT 108 PUMPING PLANT

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						7620	7620	7280	5160	5880	5200	5610
2						7430	7980	6770	4780	5890	5250	5650
3						7140	7770	6510	4560	5910	5210	5670
4						7010	7270	6600	4810	5990	5230	5790
5						7060	6920	6590	5200	6030	5180	5590
6						9240	6430	6600	5230	6010	5240	5450
7						17000	6050	6280	5190	5870	5260	5430
8						21900	5520	5990	5090	5840	5340	5600
9						23800	5080	5760	4810	5840	5320	5810
10						22700	4910	5690	4820	5800	5320	5700
11		N	N	N	N	19400	4500	5590	4940	5780	5370	5660
12	N	O	O	O	O	15100	4090	5490	5090	5730	5440	5790
13	O	T	T	T	T	13600	3920	5460	5240	5680	5340	5660
14						15500	3700	5630	5140	5620	5470	5560
15		C	C	C	C	15300	3560	5760	5070	5450	5410	5590
	R	O	O	O	O							
16	E	M	M	M	M	13000	3160	5670	5080	5430	5380	5580
17	C	P	P	P	P	11800	3500	5640	5080	5540	5450	5610
18	O	U	U	U	U	10800	3680	5560	5230	5520	5540	5660
19	R	T	T	T	T	10300	3630	5610	5230	5450	5440	5700
20	D	E	E	E	E	9930	3370	5600	5280	5400	5510	5730
		D	D	D	D							
21						9520	3550	5560	5450	5310	5690	5730
22						9230	3480	5580	5380	5320	5660	5720
23						8960	3460	5720	5230	5270	5450	5610
24						8640	3800	6030	5410	5220	5380	5420
25						8380	4650	6300	5500	5220	5490	5310
26						8160	5270	6730	5530	5200	5590	5320
27						8010	5510	6550	5530	5200	5580	5290
28						7650	6100	6430	5510	5180	5520	5230
29						7400	7640	6340	5600	5180	5480	5190
30						7540	7820	6080	5790	5170	5420	5130
31						7190		5710		5210	5490	
Mean						11490	5131	6036	5199	5553	5408	5560
Ac.-Ft.						706800	305300	371100	309300	341400	332500	330800

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 69

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 108 DRAINAGE TO SACRAMENTO RIVER

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	0	0	0	156	0	0	514	375	322	322	421
2	26	76	0	0	0	0	0	294	322	322	322	419
3	0	25	0	0	146	0	71	305	322	326	375	420
4	50	0	0	0	0	0	0	305	188	409	322	469
5	0	0	0	0	0	0	0	309	322	317	375	358
6	0	0	0	0	0	127	0	309	322	317	322	312
7	43	0	0	0	124	0	0	259	322	317	469	317
8	0	0	0	0	0	0	0	413	163	322	322	312
9	43	0	0	0	0	0	0	293	307	322	322	221
10	0	0	0	0	0	0	125	304	352	322	375	317
11	0	0	0	102	0	0	0	307	302	322	375	172
12	40	0	0	0	0	0	0	314	322	322	375	231
13	0	0	0	0	0	136	0	366	224	322	375	158
14	0	0	0	0	242	0	190	314	282	322	499	158
15	43	0	0	0	0	0	0	569	326	322	370	158
16	0	0	0	0	0	0	0	359	326	322	375	158
17	37	0	0	0	0	0	220	364	326	322	375	102
18	0	0	0	0	0	0	0	370	322	322	375	122
19	0	0	0	0	0	0	0	451	176	322	375	109
20	34	0	0	0	0	148	205	479	313	322	375	102
21	0	0	0	104	0	0	0	479	326	322	502	86
22	0	0	0	0	0	0	227	581	322	322	370	79
23	0	0	0	0	0	0	0	414	262	322	370	46
24	0	0	200	0	0	0	312	414	326	322	370	40
25	0	0	0	0	0	0	266	465	326	322	370	43
26	0	0	0	0	0	0	262	465	322	322	370	46
27	0	0	0	0	0	137	365	472	322	322	374	30
28	0	0	0	0	262	0	359	421	163	322	475	30
29	0	0	0	0	136	0	354	578	326	322	370	0
30	0	0	0	0		0	258	422	326	322	375	46
31	0		0	0		159		369		382	421	
Mean	11.2	3.4	6.4	6.6	36.8	22.8	107	396	298	326	379	183
Ac-Ft	690	200	397	409	2114	1402	6375	24350	17720	20070	23330	10870

E — Estimated NR — No Record

Total Discharge in Acre-Feet 107900

TABLE 70

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 787 DRAINAGE TO SACRAMENTO RIVER

In second feet

Date	1959			1960								
	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	0	0.2	5.1	6.5	11.7	40.9	44.0	40.8	42.6	13.0
Ac-Ft.	34	0	0	12	295	397	694	2514	2619	2510	2621	775

E — Estimated NR — No Record

Total Discharge in Acre-Feet 12470

TABLE 71

DAILY MEAN DISCHARGE
STONE CORRAL CREEK NEAR SITES

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	0.3	0.7	0.5	0.3	0.3				
2			0.1	0.3	0.3	0.4	0.3	0.3				
3			0.1	0.3	0.5	0.4	0.3	0.3				
4			0.1	0.3	0.6	0.6	0.3	0.2				
5			0.1	0.2	3.7	0.9	0.3	0.1				
6			0.1	0.2	1.7	0.7	0.3	0.1				
7			0.1	0.2	13	0.6	0.3	0.1				
8			0.2	0.3	61	0.4	0.3	0.1				
9			0.2	0.3	33	0.4	0.3	0.1				
10			0.1	0.3	6.8	0.3	0.3	0.1				
11			0.2	0.3	3.4	0.3	0.3	0				
12	N	N	0.2	0.3	2.6	0.5	0.3	0	N	N	N	N
13	O	O	0.2	0.3	1.8	1.5	0.3	0	O	O	O	O
14			0.2	0.3	1.4	1.5	0.3	0				
15			0.2	0.2	1.1	0.8	0.3	0				
16	F	F	0.2	0.2	0.9	0.5	0.3	0	F	F	F	F
17	L	L	0.2	0.2	0.7	0.3	0.3	0	L	L	L	L
18	O	O	0.2	0.2	0.7	0.3	0.3	0	O	O	O	O
19	W	W	0.2	0.2	0.6	0.3	0.3	0	W	W	W	W
20			0.2	0.2	0.5	0.3	0.4	0				
21			0.1	0.4	0.5	0.3	0.3	0				
22			0.1	0.3	0.5	0.3	0.5	0				
23			0.3	0.3	0.5	0.3	0.4	0				
24			0.4	0.3	0.4	0.3	0.4	0				
25			0.3	0.3	0.5	0.3	0.4					
26			0.3	0.3	0.6	0.3	0.5	0				
27			0.3	0.3	0.6	0.3	0.6	0				
28			0.3	0.3	0.6	0.3	0.5	0				
29			0.3	0.3	0.6	0.3	0.3	0				
30			0.3	0.3		0.3	0.3	0				
31			0.3	0.3		0.3						
Mean	0	0	0.2	0.3	4.8	0.5	0.3	0.1			0	
Ac-Ft	0	0	14	17	77	29	20	3			0	

E — Estimated NR — No Record

Total Discharge in Acre-Feet 35

TABLE 72

DAILY MEAN DISCHARGE
COLUSA BASIN DRAIN AT HIGHWAY 20

In second feet

Date	19[illegible]			19[illegible]								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.
1	331	331	405	173	360	140	277	1140	588	691	782	1380
2	353	343	414	157	1080	142	304	1110	431	721	791	1460
3	350	345	424	160	1230	139	272	1170	320	768	817	1570
4	324	341	413	154	1220	140	260	1180	265	774	855	1440
5	313	332	368	130	1220	149	243	1110	202	755	867	1410
6	322	320	364	123	1230	151	413	1030	208	753	888	1450
7	292	325	390	145	985	149	433	1080	301	733	902	1400
8	279	329	378	132	1370	151	355	1130	435	755	902	1280
9	303	338	371	292	1660	151	304	1150	435	789	865	1190
10	296	375	386	331	1290	149	200	1220	420	755	867	1140
11	294	371	368	322	910	148	184	1260	449	776	900	1050
12	292	378	361	325	650	145	248	1280	503	787	935	941
13	296	361	382	292	526 E	160	168	1260	533	787	962	888
14	310	366	407	285	455	168	103	1240	560	764	960	739
15	346	393	398	294	393	148	85	1240	560	761	962	642
16	395	431	395	275	353	145	91	1220	497 E	761	951	604
17	396	440	460	238	324	149	113	1200	442	766	943	602
18	387	389	481	213	304	146	101	1130	453	787	925	602
19	420	369	433	187	274	137	134	1070	473	711	931	569
20	427	336	369	179	238	130	143	1090	527	650	939	556
21	411	343	318	191	213	123	165	1040	466 E	631	947	483
22	416	353	324	590	199	120	279	1050	411	675	945	436
23	407	343	411	719	183	120	389	1180	446	715	935	435
24	336	329	537	514	167	119	560	1480	468	782	995	427
25	325	336	539	621	159	137	703	1610	496	789	1060	446
26	345	339	366	737	154	184	795	1730	494	731	1080	464
27	327	366	324	588	151	178	1170	1600	537	727	1150	435
28	325	366	231	451	148	189	1490	1410	562	731	1160	380
29	324	391	220	380	143	265	1410	1180	598	727	1200	371
30	317	407	208	331		364	1240	921	615	749	1220	353
31	324		187	304		322		763		759	1280	
Mean	341	360	375	320	607	163	421	1202	457	744	965	838
Ac-Ft.	20990	21390	23050	19700	34890	10030	25060	73930	27160	45740	59340	49870

E — Estimated NR — No Record

Total Discharge in Acre-Feet 411200

TABLE 73

DAILY MEAN DISCHARGE
COLUSA BASIN DRAIN AT KNIGHTS LANDING

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	366	346	393	188	356	122	167	1330	650	465	685	1250
2	357	349	411	160	128	117	484	1160	418	527	675	1550
3	369	369	440	159	0	117	546	1170	260	605	670	1690
4	390	396	446	148	0	125	474	1200	227	632	680	1770
5	378	393	427	137	0	113	400	1200	218	636	782	1800
6	369	384	396	132	0	0	332	1170	0	632	822	1790
7	384	357	375	113	0	0	227	1090	0	632	816	1810
8	363	343	372	127	0	0	216	970	0	600	810	1790
9	346	360	357	207	0	0	232	1010	95	584	810	1680
10	355	387	338	264	0	0	240	1180	156	584	804	1600
11	352	415	349	297	0	0	248	1280	252	555	745	1350
12	369	440	346	321	0	0	231	1280	344	575	708	1130
13	360	456	343	324	0	0	168	1450	340	656	794	1070
14	363	450	357	307	0	0	54	1420	344	652	882	1120
15	363	453	363	305	0	0	0	1320	382	648	876	885
16	402	480	375	294	0	0	0	1340	413	632	882	732
17	450	511	378	279	0	0	0	1330	330	628	876	724
18	470	528	415	257	0	0	0	1240	129	618	876	724
19	466	497	434	233	0	0	0	1130	61	561	870	728
20	483	456	402	207	458	0	0	1160	362	501	864	591
21	500	430	352	182	520	194	0	1160	319	407	852	508
22	518	418	310	218	414	274	0	1150	232	291	769	504
23	514	399	294	424	360	274	0	1160	197	426	794	500
24	518	384	357	421	296	294	0	1290	174	536	876	496
25	470	372	440	387	144	278	62	1470	197	612	876	426
26	424	369	473	520	149	316	502	1560	320	640	915	380
27	421	369	390	408	141	324	1230	1590	321	632	1000	445
28	434	381	335	430	139	228	1360	1580	325	561	1060	748
29	415	372	264	466	129	97	1290	1470	381	528	1230	938
30	393	375	236	390		502	1330	1100	408	452	1240	762
31	352		215	424		440		732		524	1240	
Mean	410	408	367	282	112	123	326	1248	262	566	864	1050
Ac-Ft	25220	24280	22580	17310	6415	7567	19420	76740	15580	34770	53120	62460

E — Estimated NR — No Record

Total Discharge in Acre-Feet 365500

TABLE 74

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 787 DRAINAGE TO COLUSA BASIN DRAIN

In second feet

Date	1959			1960								
	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	0.4	0	0	0	0.8	0.8	9.1	17.8	8.7	11.4	19.9	3.8
Ac-Ft	27	0	0	0	44	48	543	1095	515	703	1224	225

E — Estimated NR — No Record

Total Discharge in Acre-Feet 4424

TABLE 75

DAILY MEAN DISCHARGE
FREMONT WEIR SPILL TO YOLO BYPASS

In second feet

Date	1959			1960								
	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					3.6	0						
9					56000	3840						
10					65800	6120						
11					55500	318						
12	N	N	N	N	35600	0	N	N	N	N	N	N
13	O	O	O	O	14200	0	O	O	O	O	O	O
14					1530	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					0	0						
24					0	0						
25					0	0						
26					0	0						
27					0	0						
28					0	0						
29					0	0						
30						0						
31						0						
Mean	0	0	0	0	7884	332	0	0	0	0	0	0
Ac-Ft	0	0	0	0	453500	20390	0	0	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 473900

TABLE 76

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1500 DRAINAGE TO SACRAMENTO SLOUGH

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	26	25	38	59	0	26	428	368	457	539	624
2	72	34	18	37	85	0	25	346	493	458	549	642
3	0	43	40	28	212	0	22	413	509	453	558	660
4	83	68	32	88	209	76	21	425	478	441	570	660
5	85	60	24	63	0	153	24	425	469	486	570	654
6	88	60	43	43	0	106	24	383	396	476	570	665
7	80	39	23	36	194	59	24	513	374	442	572	671
8	76	24	9.2	20	148	58	28	427	362	419	587	654
9	76	9.4	24	0	221	64	28	350	357	421	589	649
10	82	9.4	38	0	124	106	44	466	366	420	593	654
11	63	43	30	0	157	87	40	497	390	421	603	600
12	64	38	48	29	115	58	47	502	402	424	610	524
13	71	0	9.2	41	0	124	31	474	407	422	610	509
14	70	9.4	9.2	0	235	62	33	423	422	422	605	506
15	62	24	44	0	127	86	0	563	398	416	602	481
16	62	0	44	6.3	124	74	104	417	401	417	603	416
17	43	0	31	20	110	63	91	511	401	425	592	334
18	44	0	45	26	95	64	98	534	404	420	594	318
19	57	34	46	72	96	0	82	242	400	418	594	307
20	57	47	58	7.9	64	49	92	331	398	419	606	272
21	36	54	59	42	81	48	112	497	375	431	602	278
22	36	46	33	36	71	48	113	486	376	435	608	247
23	28	46	18	0	52	35	186	626	388	449	615	224
24	44	46	130	0	61	33	319	667	409	452	639	189
25	57	46	12	39	61	21	371	677	407	453	700	131
26	44	40	0	29	57	29	306	693	408	452	722	244
27	43	32	84	36	53	33	443	674	401	453	747	235
28	56	45	55	32	45	32	474	421	400	448	704	211
29	42	45	45	24	43	22	412	652	415	452	623	163
30	47	45	37	35		24	268	622	437	454	600	134
31	34		11	31		26		76		468	618	
Mean	54.9	33.8	36.3	27.7	100	52.9	130	476	407	439	609	429
Ac.-Ft.	3376	2010	2231	1704	5750	3253	7712	29280	24220	27020	37480	25500

E – Estimated NR – No Record Total Discharge in Acre-Feet 169500

TABLE 77

DAILY MEAN DISCHARGE
SACRAMENTO SLOUGH AT SACRAMENTO RIVER

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	297 E	134	74	240	713	485	732	895	979	646	530	890
2	211 E	128	75	241	0	436	850	729	1020	748	665	947
3	236	142	76	242	0	388	730	681	948	763	730	1020
4	133	129	75	158 E	1840	373	562	692	749	716	727	1090
5	117	117	89	198 E	2270	436	510	729	671	733	712	1140
6	55	139	66	203	1850	426	397	686	625	845	682	1210
7	53	134	65	172	2320	0	356	742	579	776	666	1130
8	75	105	57	217	F	F	267	749	585	710	605	1080
9	76	104	58	186	F	F	229	577	657	653	667	1030
10	65	104	76	229	F	F	187	709	698	629	649	1000
11	66	66	65	202	F	F	252	787	719	645	643	946
12	80	58	55	148	F	F	201	773	722	627	638	848
13	91	99	82	361	F	2230	304	789	757	612	583	834
14	88	105	98	186	F	1870	264	925	768	629	607	865
15	85	97	99	262	F	2320	264	1030	777	674	624	679
16	85	105	80	286	F	3220	262	864	760	636	675	550
17	74	109	82	328	6180	4190	246	952	699	606	749	528
18	88	94	84	280	7580	3470	199	993	651	626	830	525
19	111	99	66	266	6020	2440	150	1030	584	666 E	808	505
20	118	91	76	236	3700	1620	135	956	548	705 E	781	557
21	155	78	97	230	2310	1180	157	945	519	709	767	494
22	181	47	112	222	1820	801	403	953	587	696	769	394
23	173	47	125	36	1400	659	174	1150	634	634	761	333
24	158	47	164	190	1040	647	229	1310	548	612	687	340
25	120	47	495	422	829	760	310	1480	486	570	650	338
26	110	48	434	0	718	601	304	1660	458	559	657	323
27	109	65	328	257	636	608	518	1740	548	552	745	306
28	116	36	322	803	615	0	860	1610	577	555	720	210
29	127	55	275	803	537	743	847	1580	580	585	783	262
30	123	55	240	835		707	883	1470	571	590	941	276
31	115		258	980		378		933		517	889	
Mean	119	89.4	140	304			393	1004	667	652	708	688
Ac.-Ft.	7321	5324	8624	18680			23370	61720	39680	40110	43520	40960

E – Estimated NR – No Record F – Flooded Total Discharge in Acre-Feet

TABLE 78

DAILY MEAN DISCHARGE
BUTTE SLOUGH AT MAWSON BRIDGE

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	61	65	233	416	122	208	178	229	265	222	170
2	20	56	65	232	769	113	226	158	234	269	217	125
3	19	57	61	225	1210	105	194	159	191	282	218	118
4	14	55	61	221	1350	102	164	155	184	304	213	118
5	3.8	52	60	218	1450	142	135	140	177	271	215	117
6	2.5	49	59	147	1530	584	116	121	246	237	218	108
7	1.7	50	59	35	1580	1030	111	95	232	253	206	119
8	4.7	50	60	23	1650	1200	98	112	187	266	214	155
9	10	46	75	41	6520	1410	87	129	252	228	215	123
10	19	42	131	84	21600	1750	101	152	255	215	209	116
11	23	42	156	102	21700	2520	124	166	259	239	194	99
12	25	43	163	119	14100	2370	111	162	268	233	181	95
13	28	47	157	150	8390	2030	96	178	242	230	190	83
14	29	45	151	168	4430	2180	82	190	272	208	205	84
15	27	49	148	158	3420	1900	79	199	233	230	217	91
16	29	49	148	158	2380	1510	95	186	243	244	208	83
17	34	48	151	143	1670	1240	91	183	260	228	194	76
18	41	48	158	115	1270	1040	82	175	257	244	179	69
19	54	45	163	90	1010	892	97	199	266	228	191	81
20	96	46	169	78	837	761	114	213	272	218	192	82
21	97	58	177	67	691	641	95	190	242	218	144	67
22	79	61	183	73	539	542	118	191	243	211	121	65
23	82	61	187	140	410	443	164	214	252	204	125	67
24	84	61	210	241	304	359 E	154	236	243	205	126	61
25	77	62	241	199	249	291	159	244	243	202	132	76
26	75	68	268	266	208	234	166	274	239	194	148	74
27	79	68	281	498	181	202	180	291	250	180	167	59
28	80	68	275	445	163	180	202	293	262	170	177	60
29	79	63	266	445	141	168	277	259	265	186	173	60
30	77	63	259	535		161	226	257	260	206	164	62
31	69		244	406		153		252		222	190	
Mean	44.8	53.9	156	195	3454	851	138	192	242	229	186	92.1
Ac.-Ft.	2754	3207	9622	12010	198700	52310	8235	11800	14400	14060	11440	5480

E – Estimated NR – No Record

Total Discharge in Acre-Feet 344000

TABLE 79

DAILY MEAN DISCHARGE
WADSWORTH CANAL AT BUTTE HOUSE ROAD

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	140	132	11	10	108	27	110	121	150	56	98	146
2	124	151	10	9.1	217	32	72	87	124	62	94	132
3	132	159	9.7	9.1	118	29	102	81	76	112	63	171
4	124	173	5.7	9.1	122	34	102	91	54	98	53	163
5	110	143	8.4	NR	258	40	86	118	54	72	53	164
6	135	151	9.1	NR	172	43	84	127	70	76	54	170
7	166	151	9.7	NR	186	156	180	143	93	55	74	188
8	176	153	9.7	NR	281	102	187	135	72	18	71	194
9	194	135	9.1	NR	181	70	148	137	81	5.9	44	201
10	163	134	7.9	NR	220	62	161	116	76	0.3	33	213
11	138	132	7.3	NR	246	57	145	108	65	12	16	203
12	130	126	7.9	NR	162	74	124	156	66	28	24	210 E
13	153	171	7.9	NR	105	86	127	182	68	17	34	210 E
14	140	158	8.4	NR	89	63	62	166	50	20	35	210 E
15	132	156	7.9	NR	78	57	38	212	48	14	57	210 E
16	135	192	7.9	NR	73	54	21	232	52	28	68	146
17	138	112	7.9	NR	69	50	26	164	47 E	30	52	137
18	130	43	7.9	NR	66	48	28	188	41 E	28	44	166
19	122	23	7.3	NR	59	44	7.9	180	35	20	55	170
20	130	21	7.3	NR	53	42	3.8	158	76	3.8	56	134
21	145	18	7.9	NR	51	42	1.8	170	35	7.3	47	142
22	146	15	7.3	NR	48	41	0	164	5.2	2.4	54	118
23	129	14	8.4	NR	46	41	6.0	226	2.5	8.4	43	98
24	103	12	26	NR	42	34	52	316	32	4.1	46	96
25	112	11	20	NR	38	37	74	368	45	3.7	54	109
26	102	9.7	15	NR	39	33	37	314	36	0	48	118
27	93	11	14	50 E	38	45	72	274	34	0	66	91
28	93	14	9.1	48	37	56	130	234	46	0.3	66	87
29	109	14	10	47	36	70	97	190	56	47	122	90
30	118	14	11	46		96	127	194	68	52	75	98
31	103		12	41		93		208		56	93	
Mean	131	91.6	10.0		112	56.7	80.4	179	58.6	30.2	57.8	153
Acr-Ft	8063	5452	612		6422	3487	4781	11030	3486	1859	3554	9094

E – Estimated NR – No Record

Total Discharge in Acre-Feet

TABLE 80

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1660 DRAINAGE TO SUTTER BYPASS

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							0	24	14	14	0	12
2							0	18	13	12	0	8.3
3							0	14	13	12	0	5.4
4							0	13	11	12	6.1	4.4
5							0	13	10	16	9.3	4.3
6							0	14	10	17	8.6	4.3
7							0	13	10	13	9.0	4.9
8							0	13	9.9	13	9.5	4.7
9							0	11	11	14	9.5	4.4
10							0	11	10	14	9.3	4.4
11							0	11	5.1	13	9.1	4.3
12	N	N	N	N	N	N	0	11	3.1	14	6.9	4.2
13	O	O	O	O	O	O	0	14	0.9	14	5.7	1.1
14							0	15	0	12	5.4	0
15							0	15	0	9.9	8.1	0
16	F	F	F	F	F	F	0	15	0	9.3	9.3	0
17	L	L	L	L	L	L	0	15	0	9.3	9.2	0
18	O	O	O	O	O	O	0	15	0	9.4	9.2	0
19	W	W	W	W	W	W	0	14	0	9.3	0	0
20							0	13	5.8	8.9	0	0
21							0	11	8.8	6.3	8.9	0
22							0	11	9.3	5.2	0	0
23							0	11	10	5.2	0	0
24							0	11	12	5.3	0	0
25							6.2	14	12	1.5	0	0
26							9.2	22	12	0	0	0
27							10	27	12	0	5.5	0
28							26	19	12	1.2	9.7	0
29							31	13	12	0	10	0
30							24	14	13	0	12	0
31								14		0	13	
Mean	0	0	0	0	0	0	3.5	14.5	8.0	8.7	5.9	2.2
Ac-Ft	0	0	0	0	0	0	211	891	476	537	364	132

E — Estimated NR — No Record

Total Discharge in Acre-Feet 2611

TABLE 81

DAILY MEAN DISCHARGE
LITTLE LAST CHANCE CREEK NEAR CHILCOOT

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3 E	2.1	2.7 E	2.5 E	6.2	9.8	66	12	4.4 E	1.6 E	0.5	0.5 E
2	1.6 E	2.1	2.7 E	2.5 E	9.8	9.4	60	13	4.1 E	1.5 E	0.5	0.5
3	1.2	2.3	2.7 E	2.5 E	8.1	9.8	62	12	3.8 E	1.5 E	0.4	0.5
4	0.6	1.9	2.7 E	2.7 E	7.3	15	65	15	4.1 E	1.5 E	0.4	0.6
5	0.3	1.9 E	2.7 E	2.7 E	7.0	56	67	18	3.8 E	1.5 E	0.4	0.6
6	0.4	1.8 E	2.7 E	2.7 E	8.1	85	67	14	3.6 E	1.3 E	0.4	0.6
7	0.6	2.1 E	2.7 E	3.7 E	49	214	72	13	3.3 E	1.3 E	0.4	0.6
8	0.7	2.1 E	2.7 E	4.7	428	155	62	13	3.3 E	1.3 E	0.4	0.5
9	0.7	2.1 E	2.7 E	4.7	92	99	59	12	3.1 E	1.2 E	0.4	0.5
10	0.7	2.3 E	2.7 E	4.0 E	67	80	54	12	3.1 E	1.2 E	0.4	0.8
11	0.7	2.3 E	2.7 E	3.1 E	45	74	50	11	2.9 E	1.2 E	0.4	0.7
12	1.0	2.5 E	2.7 E	3.1 E	41	78	44	11	2.9 E	1.2 E	0.3	0.6
13	1.0	2.3 E	2.7 E	3.1 E	32	92	41	11	2.7 E	1.0 E	0.3	0.5
14	1.0	2.5 E	2.7 E	3.1 E	31	74	38	11	2.7 E	0.7 E	0.3	0.5
15	1.0	2.7 E	2.7 E	3.1 E	23	60	34	10	2.5 E	0.8 E	0.4	0.6
16	1.1	2.7 E	2.7 E	3.1 E	22	54	32	9.8	2.7 E	0.7	0.3	0.9
17	1.2	2.9 E	2.7 E	3.1 E	18	55	30	8.5	2.5 E	0.7	0.4	1.0
18	1.3	2.7 E	2.7 E	3.1 E	17	60	28	8.5	2.5 E	0.6	0.4	0.8
19	1.5	2.5	2.7 E	3.1 E	16	65	27	8.1	2.3 E	0.5	0.3	0.7
20	1.6	2.5 E	2.7 E	3.1 E	16	70	26	7.0	2.3 E	0.5	0.4	0.6
21	1.8	2.5	2.7 E	3.1 E	16	74	25	9.0	2.1	0.3	0.3	0.6
22	0.1	2.5 E	2.7 E	3.1 E	14 E	78	27	8.1	2.3 E	0.1	0.5	0.6
23	0	2.5	2.9	3.1 E	14 E	80	30	8.1	2.1 E	0.3	0.5	0.5
24	0.3	2.3 E	3.6	3.5 E	14 E	80	27	8.5	1.9 E	0.4	0.3	0.6
25	1.3	2.5 E	3.8	4.2 E	13 E	78	25	8.5	1.9 E	0.4	0.2	0.7
26	1.5	2.5 E	3.1	4.9 E	13	78	24	7.3	1.8 E	0.4	0.2 E	0.7
27	1.8	2.7 E	2.9	5.3 E	12	92	23	6.6	1.8 E	0.5	0.2 E	0.6
28	1.5	2.7 E	2.9	5.6 E	11 E	97	21	6.2	1.8 E	0.6	0.3 E	0.6
29	1.6	2.5 E	2.5	5.6 E	11 E	77	18	5.6	1.8 E	0.8	0.4 E	0.6
30	1.8	2.7 E	2.5	5.9 E		78	14	5.3	1.6 E	0.8	0.4 E	0.6
31	2.1		2.5	5.9		74		5.3		0.7	0.4 E	
Mean	1.1	2.4	2.8	3.7	36.6	74.2	40.6	9.9	2.7	0.9	0.4	0.6
Ac-Ft	66	142	171	226	2105	4564	2416	612	162	54	23	37

E — Estimated NR — No Record

Total Discharge in Acre-Feet 10580

TABLE 82

DAILY MEAN DISCHARGE
SMITHNECK CREEK NEAR LOYALTON

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.6	5.3	5.6	5.3 E	9.5	6.6	17	7.8	4.2	3.4	3.4	3.0
2	5.6	5.3	5.3	5.3 E	7.5	6.1	18	7.8	4.2	3.6	3.2	3.2
3	5.8	5.3	5.6	5.3 E	6.3	6 9	19	7.8	4.0	3.8	3.2	3.2
4	5.8	5.3	4.6	5.3 E	6.1	7.2	19	8.4	4.0	3.6	3.2	3.2
5	5.8	5.1	4.6 E	5.6 E	6.3	8 1	19	7.8	4.0	3.8	3.2	3.0
6	5.8	5.1	4.6 E	5.6 E	6.6	9.0	19	7.2	4.0	3.8	3.2	3.2
7	5.8	5.1	4.6 E	5.6 E	15	16	21	6.9	3.8	3.6	3.0	3.2
8	5.8	5.3	4.6 E	5.6 E	31	16	19	6.9	4.2	3.6	3.0	3.2
9	5.8	5.3	4.6 E	5.3 E	20	14	19	6.3	4.0	3.4	3.0	3.2
10	5.8	5.1	4.6 E	5.6 E	16	13	18	6.1	4.0	3.2	3.0	3.4
11	5.6	5.1	4.6 E	5.6 E	14	13	17	5.8	4.0	3.2	3.0	3.4
12	5.6	5.3	4.8 E	5.6 E	13	13	15	5.6	3.8	3.2	3.0	3.2
13	5.6	5.3	4.8 E	5.8 E	12	15	14	5.6	3.6	3.2	3.0	3.0
14	5.6	5.3	4.8 E	5.8 E	11	15	14	5.6	3.6	3.0	3.0	3.0
15	5.3	5.1	4.8 E	5.8 E	10	14	13	5.3	3.6	3.0	3.0	3.0
16	5.3	5.1	4.8 E	5.8 E	9.3	13	12	5.3	3.6	3.0	3.2	3.2
17	5.3	5.3	5.1 E	6.1 E	8.7	13	11	5.3	3.4	3.0	3.0	3.2
18	5.3	5.6	4.8 E	6.1 E	9.3	16	11	5.3	3.4	3.0	3.0	3.2
19	5.6	5.6	4.8 E	6.1 E	8.7	16	11	5.3	3.4	3.0	2.8	3.2
20	5.6	5.6	4.8 E	5.8 E	8.7	17	10	5.3	3.6	2.8	2.8	3.2
21	5.6	5.6	4.8 E	6.1 E	8.1	18	10	5.6	3.6	2.8	3.0	3.4
22	5.3	5.8	5.1 E	6.1 E	7.5	18	11	5.6	3.6	2.8	3.2	3.6
23	5.3	5.8	5.1 E	6.1 E	8.1	19	10	5.6	3.6	3.0	3.4	3.6
24	5.3	5.8	5.1 E	6.1 E	9.0	19	9.7	6.3	3.6	3.0	3.4	3.4
25	5.3	5.8	5.1 E	6.3 E	8.1	19	9.3	6.1	3.6	3.2	3.2	3.4
26	5.1	5.6	5.3 E	6.3	7.5	19	9.0	5.6	3.4	3.2	3.2	3.6
27	5.3	5.3	5.3 E	6.1	7.5	20	9.3	5.3	3.4	3.8	3.2	3.6
28	5.3	5.6	5.3 E	6.1	6.9	19	8.7	4.8	3.4	3.8	3.2	3.6
29	5.3	5.3	5.1 E	6.1	6.6	20	8.4	4.6	3.4	3.6	3.0	3.8
30	5.3	5.6	5.1 E	6.1		19	8.1	4.6	3.4	3.6	3.0	3.8
31	5.3		5.3 E	6.1		18		4.4		3.4	3.0	
Mean	5.5	5.4	4.9	5.8	10.3	14.7	13.7	6.0	3.7	3.3	3.1	3.3
Ac-Ft	339	321	304	358	592	904	812	369	221	203	190	197

E — Estimated NR — No Record

Total Discharge in Acre-Feet 4810

TABLE 83

DAILY MEAN DISCHARGE
MILLER CREEK NEAR SATTLEY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.3	3.5	3.1	3.1 E	4.4	3.7	8.6	8.0	12	5.3	3.5	2.4
2	3.5	3.5	3.1 E	3.1 E	4.8	3.5	9.2	9.8	12	5.3	3.3	2.5
3	3.5	3.5	3.1 E	3.1 E	3.7	3.5	11	8.6	12	5.3	3.3	2.5
4	3.5	3.5	3.1 E	3.1 E	3.5	3.9	12	8.3	12	5.1	3.3	2.5
5	3.5	3.5	3.1 E	3.1 E	3.7	5.8	13	8.0	12	5.1	3.1	2.5
6	3.5	3.5	3.1 E	3.1 E	3.9	6.6	15	9.2	11	4.8	3.1	2.4
7	3.5	3.7	3.1 E	3.1 E	13	18	18	11	11	4.8	3.1	2.4
8	3.5	3.7	3.1 E	3.1	50	14	16	11	11	4.8	3.1	2.2
9	3.7	3.7	3.1 E	2.5	18	8.9	16	11	10	4.8	3.1	2.2
10	3.5	3.7	3.1 E	2.5	11	7.4	16	13	10	4.6	3.1	2.4
11	3.5	3.7	3.1 E	2.4	8.0	7.1	14	13	9.8	4.6	3.1	2.4
12	3.3	3.7	3.1 E	2.5	6.6	7.1	13	14	9.5	4.6	3.1	2.2
13	3.3	3.5	3.1 E	12	5.8	6.9	13	13	9.2	4.6	3.1	2.2
14	3.3	3.5	3.1 E	2.7	5.5	6.6	13	13	9.2	4.4	3.1	2.0
15	3.3	3.5	3.1 E	2.5	5.3	6.1	12	13	8.9	4.4	3.1	2.0
16	3.3	3.5	3.1 E	2.5	5.1	6.1	12	13	8.9	4.1	3.1	2.2
17	3.3	3.5	3.1 E	2.5	5.1 E	6.1	12	12	8.6	4.1	3.1	2.4
18	3.3	3.5	3.1 E	2.5	4.8	6.3	12	11	8.3	4.1	3.3	2.4
19	3.3	3.5	3.1 E	2.7	4.8	6.6	13	11	7.7	3.9	3.3	2.2
20	3.3	3.5	3.3 E	2.7	4.6	7.4	13	12	7.4	3.7	3.1	2.2
21	3.3	3.5	3.1 E	2.9	4.6	8.3	13	12	7.1	3.7	3.1	2.4
22	3.3	3.5	3.1 E	2.9	4.4	8.9	11	10	7.1	3.7	3.3	2.4
23	3.3	3.5	3.1 E	3.1	4.1 E	9.5	8.9	9.8	6.9	3.9	3.3	2.4
24	3.3	3.5	3.1 E	3.1	4.1 E	10	8.0	9.5	6.6	3.7	3.3	2.4
25	3.3	3.5	3.1 E	3.3	4.1	11	7.7	10	6.3	3.5	3.3	2.4
26	3.3	3.3	3.1 E	3.1	4.1	12	7.4	11	6.1	3.3	3.3	2.2
27	3.3	3.1	3.1 E	3.1	3.9	17	7.4	10	5.8	3.5	3.3	2.2
28	3.3	3.1	3.1 E	3.3	3.7	14	6.9	11	5.5	3.5	3.3	2.4
29	3.3	3.3	3.1 E	3.3	3.7	11	6.9	10	5.3	3.5	3.3	2.4
30	3.5	3.1	3.1 E	3.1		10	7.1	11	5.3	3.5	2.7	2.4
31	3.5		3.1 E	3.1		8.9		11		3.5	2.4	
Mean	3.4	3.5	3.1	3.2	7.2	8.5	11.5	10.9	8.8	4.2	3.2	2.3
Ac-Ft	208	207	191	197	413	520	686	671	521	261	194	138

E — Estimated NR — No Record

Total Discharge in Acre-Feet 4207

TABLE 84

DAILY MEAN DISCHARGE
MIDDLE FORK FEATHER RIVER NEAR PORTOLA

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	7.2	16	19	164	87	530	38	6.0	0.4	0.1	
2	0.1	8.2	17	19	185	87	463	35	5.9	0.4	0.1E	
3	0.1	8.9	18	17	225	78	398	34	4.8	0.3	0.1E	
4	0.1	9.6	19	16	242	77	357	44	4.4	0.3	0	
5	0.1	9.9	13	16	274	110	319	63	4.4	0.2	0	
6	0.2	9.2	14	15	283	268	293	44	3.8	0.2	0	
7	0.2	9.2	13	15	346	618	319	40	3.7	0.2	0	
8	0.2	9.6	11	22	1290	859	277	41	3.1	0.2	0	
9	0.3	9.9	10	24	3110	1130	259	39	2.6	0.2	0	
10	0.3	11	10	24	2290	809	256	31	2.5	0.1	0	
11	0.4	11	11	23	1170	554	239	25	2.5	0.1	0	
12	0.4	11	13	21	727	472	212	22	2.3	0.1	0	
13	0.4	11	13	21	516	516	185	18	2.0	0.1	0	N
14	0.6	12	13	22	383	608	152	18	1.7	0.1	0	O
15	0.6	12	12	22	315	540	117	16	1.8	0.1	0	
16	0.7	12	11	22	262	426	49	14	1.8	0.1	0	F
17	1.3	12	11	22	220	383	38	12	1.8	0.1E	0	L
18	3.4	13	13	22	197	391	62	11	1.6	0.1E	0	O
19	3.8	13	15	22	164	364	72	11	1.3	0.1E	0	W
20	3.7	13	17	22	152	375	59	11	1.1	0	0	
21	3.7	14	18	22	136	375	57	12	1.0	0	0	
22	3.7	14	19	23	126	364	69	12	0.9	0	0	
23	3.8	14	21	24	102	361	88	11	0.8	0	0	
24	4.4	14	26	27	102	354	85	14	0.8	0	0	
25	5.4	14	27	30	97	336	80	17	0.6	0	0	
26	5.8	14	27	35	107	293	84	17	0.6	0	0	
27	6.3	15	27	41	99	434	77	14	0.6	0	0	
28	6.5	15	26	50	96	418	68	9.9	0.6	0.1E	0	
29	6.7	15	23	63	88	406	52	9.2	0.5	0.1	0	
30	6.9	15	20	91		485	45	7.2	0.4	0.1	0	
31	6.9		19	136		494		6.7		0.1		
Mean	2.5	11.9	16.9	30.6	464	422	179	22.5	2.2	0.1	0	0
Ac.-Ft.	153	708	1037	1880	26710	25930	10630	1382	131	8	1	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 68570

TABLE 85

DAILY MEAN DISCHARGE
RED CLOVER CREEK NEAR GENESEE

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	11	11	13 E	37	31	226	43	18	9.6	8.1	6.8
2	11	11	11	13 E	45	30	200	45	17	9.6	8.4	6.8
3	11	11	12	13 E	28	31	187	41	16	9.6	8.1	7.3
4	11	11	11	13 E	25	44	181	44	14	9.3	7.8	7.1
5	11	11	11 E	13 E	24	189	168	63	14	9.3	8.1	7.1
6	11 E	11	11 E	13 E	28	259	162	47	14	9.6	7.6	6.8
7	11	11	11 E	19 E	181	664	168	42	14	9.6	7.3	6.8
8	11	11	12 E	27	1560	502	151	39	14	9.3	7.1	6.8
9	12	11	12 E	23	325	281	133	37	14	8.7	7.1	6.8
10	11	11	12 E	17	185	198	121	34	13	8.4	6.8	6.8
11	11	11	12 E	15	120	185	109	30	13	8.1	6.8	7.1
12	11	11	12 E	14	97	191	98	29	13	8.1	6.6	6.8
13	11	11	12 E	14 E	86	273	84	28	12	8.1	6.8	6.8
14	11	11	12 E	13 E	66	205	79	27	12	8.1	6.8	7.1
15	11	11	12 E	13 E	62	158	73	26	11	8.1	6.6	7.1
16	11	11	12 E	13 E	56	143	68	26	11	8.1	6.8	7.1
17	11	11	12 E	13 E	49	136	63	25	11	8.4	7.3	7.6
18	11	11	12 E	13	47	156	58	23	11	8.1	7.6	7.3
19	11	11	12 E	13	44	168	60	23	10	8.1	7.3	7.1
20	11	11	12 E	13	39 E	185	57	23	10	7.8	7.1	7.1
21	11	11	12 E	13	38 E	198	49	26	9.9	7.8	7.8	7.1
22	11	11	12 E	13	37 E	200	56	25	9.9	7.8	7.6	7.1
23	11	11	12 E	14	35 E	196	70	23	9.9	7.6	7.3	7.3
24	11	11	12 E	14	34 E	189	67	26	9.9	7.6	7.3	7.3
25	11	11	12 E	17	34 E	183	61	28	9.6	7.6	7.3	7.1
26	11	12	12 E	17	33	176	53	27	9.9	7.6	7.3	7.1
27	11	11	13 E	16	33	236	53	23	9.9	7.8	7.3	6.8
28	11	11	13 E	16	33	307	51	22	9.6	7.8	7.3	6.6
29	11	11	13 E	16	31	231	45	21	9.6	8.4	7.3	6.8
30	11	11	13 E	17		238	42	20	9.6	8.4	7.1	7.1
31	11		13 E	18		257		19		8.4	7.1	
Mean	11.1	11.0	12.0	15.1	118	208	99.8	30.8	12.0	8.4	7.3	7.0
Ac.-Ft.	682	657	736	930	6768	12770	5937	1894	714	517	450	418

E – Estimated NR – No Record

Total Discharge in Acre-Feet 32470

TABLE 86

DAILY MEAN DISCHARGE
INDIAN CREEK NEAR TAYLORSVILLE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	38	35	32	130	121	774	221	152	32	22	18
2	31	39	34	36	182	118	698	239	152	32	22	18
3	31	39	34	46	123	113	685	236	146	34	22	20
4	31	38	34	41	99	143	704	243	134	32 E	22	20
5	31	38	31	41	92	340	704	262	126	32 E	21	20
6	31	38	30	46	94	777	704	255	118	32 E	21	20
7	32	39	32	49	433	1660	737	274	110	31 E	21	18
8	35	39	34	72	4130	1700	691	286	103	30 E	21	19
9	36	38	35	72	1710	1020	647	278	91	28 E	20	19
10	36	39	35	63	854	744	611	274	84	28 E	20	19
11	36	39	35	63	605	672	563	274	78	27 E	20	18
12	35	38	35	58	491	653	485	266	72	26 E	20	18
13	35	38	39	44	423	764	438	239	70	26 E	20	18
14	35	38	32	56	320	744	443	221	68	26	19	18
15	35	38	36	52	291	599	398	214	66	26	19	18
16	34	38	38	41	255	540	365	210	60	26	18	17
17	34	38	39	56	221	502	342	200	58	25	19	17
18	34	39	38	52	217	540	329	183	54	25	19	18
19	35	41	36	51	193	575	342	177	51	25	18	17
20	35	41	38	49	164	623	342	173	46	24	18	16
21	36	41	39	51	167	666	347	196	44	24	17	16
22	36	41	38	56	152	685	356	180	44	22	19	17
23	36	41	42	56	140	685	351	170	43	20	20	16
24	36	41	58	58	132	704	329	177	41	19	20	16
25	32	41	67	74	152	704	299	180	40	19	20	16
26	35	38	44	80	137	704	274	180	38	19	20	16
27	35	36	46	80	129	826	266	170	37	20	19	17
28	35	36	51	78	126	927	251	155	35	21	18	19
29	36	35	39	76	121	770	228	152	35	21	18	19
30	36	36	42	80		737	217	152	35	21	18	19
31	36		38	80		812		152		24	19	
Mean	34.3	38.6	38.8	57.7	424	683	463	213	74.4	25.8	19.7	17.9
Ac-Ft.	2108	2299	2388	3548	24360	41990	27550	13070	4425	1585	1210	1065

E — Estimated NR — No Record

Total Discharge in Acre-Feet 125600

TABLE 87

DAILY MEAN DISCHARGE
LIGHTS CREEK NEAR TAYLORSVILLE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.9	3.2	3.5	4.0 E	29	14	124	41	23	5.9	2.3	1.4
2	2.9	3.2	3.5	4.0 E	41	13	136	45	21	5.5	2.1	1.6
3	2.9	3.5	3.8	4.0	21	13	148	42	20	5.9	2.1	1.7
4	2.9	3.5	2.9	4.0 E	14	18	153	46	19	5.5	1.9	1.9
5	2.9	3.5	2.7	4.0 E	14	51	150	41	18	5.2	1.9	1.7
6	2.9	3.5	2.7	4.0	17	84	148	40	16	5.2	1.9	1.7
7	2.9	3.8	2.9	4.7	145	413	148	48	16	4.9	1.7	1.6
8	3.2	3.8	3.2	10	716	252	132	47	15	4.9	1.7	1.6
9	3.8	3.8	3.5	7.6	168	143	124	45	14	4.3	1.6	1.6
10	3.8	3.8	3.5	6.4	85	100	113	44	14	4.3	1.6	1.7
11	3.5	3.8	3.8	6.0	55	82	102	44	13	4.0	1.6	1.7
12	2.9	3.8	3.2	5.7	41	84	86	42	12	4.0	1.6	1.6
13	2.9	3.5	3.8	6.0	39	89	79	39	11	4.0	1.6	1.6
14	2.9	3.5	3.8	5.7	32	84	84	37	11	3.7	1.4	1.4
15	2.9	3.5	3.8	5.3	30	73	74	36	10	3.7	1.6	1.4
18	2.7	3.5	3.8	5.3 E	27	81	68	34	9.6	3.7	1.6	1.6
17	2.7	3.5	3.8	5.3	23	70	64	33	9.1	3.7	1.6	1.6
18	2.7	3.5	3.8	5.3	25	86	63	31	9.1	3.4	1.4	1.6
19	2.7	3.5	3.8	5.3	22	100	66	30	8.2	3.0	1.3	1.6
20	2.9	3.5	3.8	5.3	20	117	64	30	8.2	2.7	1.1	1.6
21	2.9	3.8	3.8	5.3	19	132	61	35	8.2	[illegible]	1.1	1.6
22	3.2	3.5	3.8	6.0	18	139	63	30	7.8	2.5	1.3	1.6
23	3.5	3.8	4.3	6.0	16	146	57	29	7.4	[illegible]	1.6	1.6
24	2.9	3.8	8.0	6.8	16	150	53	32	7.4	2.3	1.4	1.6
25	2.9	3.5	9.3	10	18	150	43	33	7.0	[illegible]	1.6	1.6
26	2.9	3.2	5.0	13	17	141	47	33	7.0	[illegible]	1.6	1.6
27	2.9	2.7	5.3	11	16	213	49	[illegible]	6.6	[illegible]	1.6	1.6
28	2.9	3.5	5.0	11	16	175	44	[illegible]	6.6	2.5	1.6	1.7
29	3.2	2.9	4.0	11	14	130	41	25	6.2	[illegible]	1.6	1.7
30	3.2	3.8	4.0	14		139	40	24	5.9	[illegible]	1.4	1.7
31	2.9		4.0	13		148		2[illegible]		[illegible]	1.4	
Mean	3.0	3.5	4.1	6.9	59.1	116	87.7	36.[illegible]	11.6	3.7	1.6	1.6
Ac-Ft	185	210	250	426	3400	7160	5217	2212	689	[illegible].7	99	96

E — Estimated NR — No Record

Total Discharge in Acre-Feet [illegible]170

TABLE 88

DAILY MEAN DISCHARGE
SPANISH CREEK NEAR QUINCY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	14	14	19 E	555	65	342	123	85	22	13	8.4
2	16	14	15	19 E	314	63	306	131	87	21	13	8.4
3	16	14	15	19 E	165	66	302	114	79	21	13	8.4
4	16	14	15	19 E	128	145	310	123	70	21	13	8.4
5	16	14	14	19 E	154	576	302	114	63	23	12	8.4
6	16	14	14 E	19 E	148	461	287	112	62	21	12	8.4
7	16	14	15 E	35 E	1210	1370	290	121	58	20	12	8.4
8	15	14	15 E	58	3860	766	264	119	57	20	12	8.4
9	16	14	15	30	1040	418	250	110	51	20	11	9.0
10	16	14	15	26	502	294	233	103	48	19	11	9.0
11	15	15	15	28	318	243	216	101	44	18	11	9.0
12	14	15	15	26 E	240	298	197	101	42	18	11	9.0
13	14	15	15	25 E	207	334	182	97	41	17	11	9.0
14	14	15	15 E	23 E	176	283	188	89	39	16	11	9.0
15	14	15	15 E	22 E	154	243	173	87	37	16	11	9.0
16	14	15	15 E	20 E	138	219	162	85	35	16	11	9.0
17	13	15	15	19 E	126	210	154	81	34	16	11	9.0
18	14	15	15	17	126	216	151	77	31	16	10	9.6
19	13	15	15 E	18	114	223	159	72	29	15	10	9.6
20	14	15	15	18	105	236	154	72	28	15	10	9.6
21	14	15	15	19	99	240	154	79	28	15	10	9.6
22	15	15	15	30	93	250	159	72	28	15	9.6	10
23	15	15	17	34	89	257	148	79	27	14	9.6	10
24	15	16	59	34	81	264	138	110	26	14	9.6	10
25	14	16	37	77	81	272	128	101	25	14	9.6	10
26	18	15	23	109	77	279	126	114	24	14	9.6	10
27	15	15	20 E	92	72	407	146	123	23	13	9.0	10
28	14	14	19	85	68	408	133	110	23	13	9.0	11
29	13	14	19 E	60	66	314	126	97	23	13	9.0	11
30	13	15	19 E	73		529	121	89	23	13	9.0	11
31	13		19 E	63		422		87		13	8.4	
Mean	14.7	14.7	18.0	37.3	362	335	200	99.8	42.3	16.8	10.7	9.3
Ac-Ft	906	873	1109	2291	20840	20570	11900	6135	2519	1035	657	555

E — Estimated NR — No Record Total Discharge in Acre-Feet 69390

TABLE 89

DAILY MEAN DISCHARGE
FEATHER RIVER NEAR GRIDLEY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	962	1230	1260	1350	2800	2440	10100	1900	1710	430	662	486
2	941	1210	1260	1260	9280	2340	9160	2100	1730	486	668	510
3	935	1040	1230	1210	6480	2180	8670	2440	1910	495	674	395
4	941	1020	1230	1230	4900	3710	8540	2380	1640	476	685	439
5	908	1010	1220	1260	4100	9400	8060	2380	1370	472	657	408
6	862	1000	1210	1420	4040	16600	8020	2160	1170	467	668	374
7	855	997	1220	1490	8430	22500	8220	2240	1350	505	662	413
8	868	990	1240	2290	66500	30900	8220	2710	1250	581	651	759
9	868	983	1230	2400	50900	19900	8040	2750	1190	662	635	732
10	875	983	1160	2010	28000	14800	7730	2780	1050	657	624	618
11	881	976	1130	2320	18100	11800	7020	2900	1040	624	618	1080
12	875	969	1130	2870	12300	10600	6600	2900	997	597	618	975
13	948	969	1130	1350	9260	12000	6040	2920	969	555	613	597
14	1080	962	1130	1290	7660	10700	5560	2660	895	555	515	624
15	1080	1010	1150	1690	6620	9470	5180	2180	555	550	404	691
16	1100	1080	1210	1190	6000	8150	4360	1910	768	581	404	744
17	1170	1240	1240	1050	4930	7640	3540	1880	756	618	383	708
18	1180	1280	1210	1180	4690	7550	3120	1860	750	607	379	674
19	1280	1280	1150	2300	4200	7380	3430	1580	726	586	400	685
20	1240	1270	1130	1440	3430	7490	3330	1530	691	525	467	651
21	1160	1270	1120	1520	3040	7490	3120	1550	640	472	476	618
22	1190	1270	1130	2300	2820	7490	2940	1520	629	467	476	613
23	1200	1260	1120	1930	2730	7570	2750	1370	607	540	491	668
24	1210	1270	1500	1730	2710	7930	2710	2040	576	607	510	697
25	1210	1260	3010	4230	2710	7880	2380	2040	545	613	525	702
26	1220	1250	1350	6580	2640	8260	2220	1930	515	668	530	702
27	1230	1250	875	5440	2420	9140	3090	2060	505	635	602	720
28	1230	1240	843	5790	2260	11200	3020	2180	481	597	691	744
29	1230	1260	1190	3770	2240	9690	2590	2320	472	545	679	762
30	1230	1260	1370	2680		10000	2060	2180	462	560	515	774
31	1220		1390	2420		12000		1790		618	472	
Mean	1070	1136	1251	2290	9869	10200	5327	2166	932	560	560	652
Ac-Ft	65810	67620	76900	140800	567700	627200	317000	133200	55440	34420	34420	38800

E — Estimated NR — No Record Total Discharge in Acre-Feet 2159000

TABLE 90

DAILY MEAN DISCHARGE
NORTH HONCUT CREEK NEAR BANGOR

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	92	15	25	8.9	0.5			
2				0	130	14	17	8.9	0.5			
3				0	773	15	14	7.5	0.5			
4				0	78	149	13	5.7	0.3			
5				0	198	743	13	5.2	0.2			
6				0	104	330	12	4.3	0.1			
7				0	1200	1180	11	3.5	0			
8				0	1530	318	8.2	2.8	0			
9				0	320	122	6.9	2.8	0			
10				0	269	79	5.7	2.6	0			
11				0	165	62	5.7	2.3	0			
12		N	N	0	84	162	8.2	1.8	0	N	N	N
13	0 E	0	0	0	67	356	6.3	2.3	0	0	0	0
14	0			0	55	132	4.7	2.1	0			
15	0			0	46	81	4.3	1.6	0			
16	0	F	F	4.6	42	62	3.5	1.3	0	F	F	F
17	0	L	L	5.7	37	49	3.2	1.1	0	L	L	L
18	0	O	O	2.8	36	41	3.2	1.0	0	O	O	O
19	0	W	W	2.1	33	35	2.8	0.8	0	W	W	W
20	0			1.8	29	31	3.9	0.7	0			
21	0			2.3	27	25	4.7	0.6	0			
22	0			31	25	20	3.9	0.6	0			
23	0			35	22	17	3.5	0.8	0			
24	0			23	22	16	5.7	1.3	0			
25	0			112	20	14	6.9	2.3	0			
26	0			136	19	13	5.7	2.8	0			
27	0			75	17	14	34	2.1	0			
28	0			75	17	22	39	1.5	0			
29	0			57	16	16	20	1.1	0			
30	0			50		37	14	0.9	0			
31	0			46		45		0.7				
Mean		0	0	21.3	165	136	10.3	2.6	0.1	0	0	0
Acr-Ft.		0	0	1308	9467	8360	613	162	4	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 91

DAILY MEAN DISCHARGE
FEATHER RIVER AT YUBA CITY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1240	1230	1500	1680	2400	2780	11000	2510	2420	849	804	834
2	1230	1250	1520	1610	6640	2850	9400	2530	2740	854	814	809
3	1210	1190	1510	1500	6440	2490	8720	2810	2740	879	809	809
4	1210	1120	1490	1500	4640	2920	8500	2750	2660	894	814	779
5	1190	1130	1490	1470	4330	7500	8160	2790	2310	899	819	774
6	1170	1140	1500	1530	5290	18500	7990	2510	2010	819	809	774
7	1140	1140	1510	1580	6010	19400	8150	2450	1960	809	824	770
8	1170	1160	1540	1700	47400	34100	8570	2990	1880	804	829	789
9	1180	1190	1540	2390	65600	27000	8530	3340	1770	874	809	956
10	1190	1190	1520	2080	40500	17300	8080	3200	1640	884	794	1020
11	1190	1180	1410	2270	25400	12000	7500	3220	1480	889	779	1070
12	1150	1210	1410	2730	15100	10400	6900	3300	1470	864	804	1070
13	1120	1230	1410	1960	10500	13700	5940	3430	1470	819	819	1010
14	1220	1250	1390	1660	8400	12500	5290	2990	1390	784	804	1020
15	1250	1290	1410	1890	7140	10300	5170	2630	1220	774	717	1040
16	1220	1360	1470	1600	6390	8420	4630	2460	1050	765	638	1110
17	1250	1490	1530	1370	5780	7700	4100	2320	1190	774	615	1130
18	1300	1550	1500	1280	5370	7530	3550	2250	1160	799	606	1080
19	1280	1550	1470	1720	5180	7460	3570	2120	1130	750	606	1090
20	1380	1550	1430	1640	4620	7490	3780	1950	1120	721	615	1100
21	1310	1550	1410	1530	4140	7630	3510	1970	1060	698	651	1080
22	1270	1550	1400	1940	3800	7690	3470	2120	1050	703	684	1070
23	1300	1550	1400	2080	3570	7960	3230	1910	993	688	712	1090
24	1270	1550	1550	1910	3460	8320	3220	2160	961	741	745	1140
25	1250	1560	2480	2440	3410	8050	2940	2590	951	784	784	1170
26	1270	1520	2010	4640	3220	8700	2710	2370	956	774	809	1180
27	1280	1520	1430	4420	3150	9000	3040	2500	982	819	819	1220
28	1260	1500	1190	4130	2900	12500	3810	2670	951	789	889	1210
29	1220	1470	1430	3610	2660	10900	3200	2790	930	760	915	1210
30	1220	1510	1650	2850		10100	2770	2700	889	717	925	1200
31	1220		1710	2520		13300		2440		745	864	
Mean	1231	1356	1523	2169	10810	10860	5648	2605	1484	797	772	1020
Acr-Ft	75690	80690	93640	133400	621700	667400	336100	160200	88330	49040	47460	60700

E — Estimated NR — No Record

Total Discharge in Acre-Feet 2414000

TABLE 92

DAILY MEAN DISCHARGE
DEER CREEK NEAR NEVADA CITY

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.4 E	5.0	2.2	1.7	18	4.6	182	91	24	32	30	22
2	5.8 E	5.8	2.2	1.7	12	4.6	209	86	12	31	17	21
3	6.3 E	5.0	2.2	1.7	11	4.6	184	78	6.3	31	17	22
4	6.8 E	5.0 E	2.2	1.7	6.3	6.8	164	75	5.8	31	16	22
5	7.3 E	3.8 E	2.2	1.7	11	27 E	138	70	6.8	31	14	22
6	7.8 E	3.8 E	2.2	1.7	7.8	21	134	69	23	31	14	22
7	8.3 E	3.5 E	2.2	2.2	93	34	83	55	35	32	12	21
8	8.9 E	3.8 E	2.5	9.4	347	26	46	25	17	32	12	18
9	8.9 E	3.5 E	2.5	7.8	78	14	45	14	11	33	11	14
10	10 E	3.5 E	2.5	6.3	47	11	84	28	12	34	12	14
11	11 E	3.1 E	2.8	26	29	9.4	98	42	11	34	9.4	14
12	11 E	2.8 E	2.8	14	19	19	56	49	10	33	12	14
13	11 E	2.5 E	2.8	6.8	15	22	35	46	8.3	34	16	14
14	11 E	2.5	2.8	5.8	12	14	26	41	8.3	35	16	14
15	12	2.5	2.5	3.8	11	11	21	38	8.3	34	17	14
16	6.3	2.2	2.5	3.1	8.9	8.9	31	37	8.9	35	21	14
17	1.4	2.2	2.2	3.1	7.3	8.3	65	36	8.3	34	21	15
18	1.4	2.2	2.2	3.1	9.4	7.3	67	30	8.9	33	21	15
19	1.7	2.2	2.2	3.5	10	6.8	33	21	8.3	33	21	15
20	1.9	2.2	2.2	3.5	6.3	5.8	21	15	8.9	34	21	16
21	1.9	2.2	2.2	5.4	5.4	5.8	32	14	8.3	35	21	16
22	1.9	2.2	2.2	14	5.4 E	5.4	21	12	8.3	35	21	16
23	1.9	2.2	2.8	7.3	5.0 E	5.0	34	25	7.8	36	21	16
24	1.9	2.2	9.4	8.9	4.6 E	5.0	67	54	11	36	22	16
25	1.9	2.5	4.6	31	4.6 E	4.6	69	47	14	40	22	16
26	1.9	2.5	2.5	45	5.0	4.2	72	44	14	54	22	16
27	2.2	2.5	2.5	17	5.0	5.8	132	41	15	49	22	16
28	2.8	2.5	2.5	7.8	5.0	6.8	122	41	15	40	22	17
29	3.8	2.5	2.2	5.8	5.0	4.2	105	40	15	42	22	17
30	4.6	2.2	1.9	5.0		15	96	35	17	42	22	17
31	5.0		1.9	4.6		78		35		42	22	
Mean	5.6	3.0	2.7	8.4	27.7	13.1	82.4	43.0	12.3	35.7	18.4	16.9
Ac-Ft.	345	180	164	517	1595	805	4903	2646	729	2198	1129	1004

E — Estimated NR — No Record

Total Discharge in Acre-Feet 16220

TABLE 93

DAILY MEAN DISCHARGE
FEATHER RIVER BELOW SHANGHAI BEND

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1440	1220	1430	1740	3540	3780	16400	5090	5400 E	974	835	870
2	1430	1210	1430	1620	8030	3710	13900	4260 E	5840 E	939	830	853
3	1430	1190	1450	1500	9400	3270	12700	4770 E	5680	950	824	875
4	1420	1100	1430	1470	6540	3710	12400	4780 E	5620	950	813	807
5	1410	1100	1430	1390	6040	8830 E	12000	4880 E	4800	956	818	841
6	1380	1120	1430	1420	7800	25100 E	11700	4490 E	4110	875	801	847
7	1350	1110	1440	1460	7960	25100 E	11800	4370	3820	858	818	858
8	1360	1110	1470	1620	70400	43300 E	12500	5430	3520	853	801	916
9	1380	1140	1470	2840	103000	38100 E	12800	6290	3150	921	779	1070
10	1380	1130	1470	2650	58100	26800	12300	6040	2790	939	768	1140
11	1380	1120	1370	3050	37800	22400	11700	6100	2460	939	729	1200
12	1350	1150	1360	3890	22700	16400	11100	6370	2400	916	768	1210
13	1250	1160	1360	2850	16600	20800	10200	6650	2390	864	756	1170
14	1260	1180	1360	2300	13100	19500	9110	5780	2200	835	740	1170
15	1270	1220	1360	2600	10800	16100	8510	5150	1880	801	613	1180
16	1230	1270	1410	2200	9460	13100	8240	5090	1550	790	539	1260
17	1250	1400	1460	1820	8420	11700	7820	4840	1700	807	528	1270
18	1300	1540	1450	1660	7630	11200	7290	4680	1630	841	523	1210
19	1280	1560	1410	2180	7380	11000	6930	4390	1540	784	539	1220
20	1370	1580	1390	2230	6600	10800	6810	4010	1480	756	549	1240
21	1310	1590	1360	1980	5910	10900	6690	4080	1410	734	613	1220
22	1280	1610	1350	2540	5410	10800	6600	4470	1380	745	630	1210
23	1280	1610	1350	2860	5070	11100	6500	3820	1290	717	668	1230
24	1250	1610	1460	2560	4870	11200	6320	4330	1210	796 E	695	1300
25	1230	1630	2580	3330	4810	10900 E	6120	5120	1170	847 E	756	1320
26	1250	1510	2320	6020	4580	11900 E	5810	4710	1150	835 E	773	1330
27	1250	1480	1470	6650	4520	12200	5600	5010	1180	887 E	784	1380
28	1240	1440	1210	5830	4150	16600	6240	5320	1130	841	870	1380
29	1210	1410	1410	5350	3870	16000	6040	5480	1080	801	904	1380
30	1200	1440	1700	4270		13700	5510	5300	1030	740	898	1360
31	1210		1790	3680		18200		4970		784	847	
Mean	1311	1331	1496	2825	16020	15430	9255	5035	2533	848	736	1144
Ac-Ft.	80590	79220	91990	173700	921300	948500	550700	309600	150700	52120	45240	68070

E — Estimated NR — No Record

Total Discharge in Acre-Feet 3472000

TABLE 94

DAILY MEAN DISCHARGE
BEAR RIVER NEAR COLFAX

In second-feet

Date	1959			1960								
	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 NOT SUFFICIENT TO COMPUTE DAILY DISCHARGE								
16				RESULTS OF MEASUREMENTS MADE LISTED IN TABLE 182 OF REPORT.								
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 95

DAILY MEAN DISCHARGE
WOLF CREEK NEAR WOLF

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	6.9	6.6	7.9	242	45	111	39	14	5.3	4.0	2.5
2	10	8.3	6.6	7.2	214	44	85	41	12	5.1	7.6	2.1
3	12	9.1	6.3	7.6	133	48	77	37	12	5.9	5.6	3.1
4	13	9.5	5.9	6.9	126	86	67	38	9.9	7.2	3.5	4.8
5	11	6.6	6.6	7.2	261	667	57	34	6.9	4.3	3.3	5.6
6	10	6.9	5.9	7.2	155	425	63	31	9.1	3.8	3.3	4.0
7	9.9	7.2	5.9	9.9	1190	619	67	26	10	3.8	2.7	3.1
8	11	6.9	6.3	150	4850	415	58	18	12	5.6	2.5	4.0
9	12	6.6	6.6	129	772	248	48	14	14	17	2.7	4.8
10	15	6.3	6.9	88	670	182	37	12	13	4.5	2.7	5.3
11	15	6.9	6.6	226	349	153	54	9.9	9.9	3.1	3.3	6.9
12	12	6.9	7.9	182	222	305	53	10	5.6	3.5	4.8	6.9
13	8.7	7.6	14	61	180	346	52	13	5.6	3.3	5.3	4.0
14	6.9	8.7	10	57	149	215	48	14	5.6	2.7	4.5	3.5
15	7.9	8.7	8.7	58	126	164	40	11	6.6	2.7	5.6	3.3
16	9.1	9.1	8.3	47	111	134	32	9.1	7.2	2.1	4.5	4.5
17	6.9	9.5	7.9	34	99	116	14	9.9	6.9	2.3	3.5	5.6
18	5.6	9.5	7.9	30	105	102	12	12	6.3	2.5	3.5	6.9
19	5.6	9.5	7.2	26	85	90	14	14	6.6	3.1	3.3	6.9
20	5.1	8.7	7.6	22	81	76	15	14	7.2	3.3	3.1	5.6
21	5.3	8.3	6.9	36	74	69	19	15	6.3	2.9	2.1	4.5
22	6.3	7.6	6.6	118	69	65	18	12	5.9	2.5	2.3	14
23	6.3	7.6	7.2	52	63	60	40	46	5.3	2.7	3.8	8.7
24	7.6	7.2	92	89	60	57	99	111	4.8	2.9	3.5	7.2
25	7.6	6.9	87	379	58	53	61	78	4.5	1.8	4.3	7.6
26	7.2	6.3	21	661	57	45	49	58	5.9	2.5	3.3	7.9
27	7.2	5.6	14	204	54	73	181	46	6.6	3.5	3.3	6.9
28	9.1	6.9	11	118	49	105	118	29	7.2	3.8	4.8	5.9
29	9.5	7.6	9.9	77	48	65	78	26	5.9	3.8	4.5	6.3
30	15	7.2	8.7	60		233	44	26	6.3	4.3	4.0	6.6
31	15		9.1	48		156		22		3.5	3.5	
Mean	9.5	7.7	13.6	97.0	367	176	57.0	28.3	8.0	4.0	3.8	5.6
Ac-Ft	584	457	839	5962	21130	10830	3394	1737	474	249	235	335

E – Estimated NR – No Record

Total Discharge in Acre-Feet 46220

TABLE 96

DAILY MEAN DISCHARGE
COON CREEK AT HIGHWAY 99E

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16	2.1	6.1	12	114	28	33	48	14	0	0.7	1.4
2	18	4.5	5.7	14	239	32	28	50	13	0	0	2.6
3	17	5.7	3.8	13	85	29	26	52	11	0	0	7.4
4	17	4.9	3.2	12	102	31	24	53	9.7	0	0	7.0
5	17	4.5	6.9	11	352	157	21	48	8.7	0.5	0	4.4
6	19	7.8	8.7	9.7	141	197	21	41	6.2	0	0	3.7
7	17	6.9	8.7	10	317	261	21	38	2.3	0	0	2.9
8	19	4.2	8.7	16	2740	205	21	32	3.4	0.1	0	3.7
9	16	4.5	8.7	58	538	105	17	28	5.4	0	0	4.0
10	17	4.9	9.7	52	432	78	16	24	6.2	0	0	5.8
11	14	4.9	11	58	222	68	16	27	6.2	0	0	6.6
12	15	6.1	12	115	151	96	19	22	3.1	0	0.1	5.1
13	14	7.8	13	41	120	200	16	19	0.8	0	0.1	5.1
14	14	7.8	12	31	100	95	14	18	0	0	0.1	4.7
15	12	9.7	14	44	86	69	13	17	1.3	0	0	5.1
16	12	9.2	14	28	74	59	11	18	0	0	0	5.4
17	11	7.8	14	22	66	52	13	18	0	0	0	6.6
18	12	10	13	19	60	47	14	17	0	0	0	8.3
19	15	11	12	19	58	44	9.2	16	2.5	0	0	7.4
20	16	10	12	17	49	40	6.1	14	2.3	0	0	5.8
21	8.2	6.1	12	18	46	37	3.8	14	0.1	0	0	5.4
22	5.3	5.7	12	41	43	34	19	16	0.3	0	2.6	6.6
23	4.2	5.7	14	39	40	33	41	19	0	0	1.6	5.4
24	3.5	4.5	26	38	36	30	65	77	0	0	1.2	4.7
25	4.9	5.7	54	258	34	29	38	59	0	0	0.7	4.7
26	4.9	6.5	26	392	35	30	29	51	0	0	2.1	5.4
27	3.5	6.1	19	136	33	31	72	40	0	0	2.3	6.2
28	1.0	5.7	17	84	32	41	71	33	0	0	3.7	4.0
29	1.6	3.5	15	59	31	33	50	27	0	0	3.7	5.8
30	1.2	5.7	15	50		34	48	23	0	0	2.9	6.2
31	2.1		14	42		41		18		0.4	2.1	
Mean	11.4	6.3	13.6	56.7	220	73.1	26.5	31.5	3.2	0.0	0.8	5.2
Ac-Ft.	701	376	835	3488	12650	4495	1579	1938	191	2	47	312

E — Estimated NR — No Record Total Discharge in Acre-Feet 26610

TABLE 97

DAILY MEAN DISCHARGE
AUBURN RAVINE AT LINCOLN

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	3.8	14	14	104	38	40	20	26	56	54	57
2	7.5	3.6	13	11	107	31	38	27	25	64	53	48
3	4.7	3.6	13	10	68	42	35	41	28	64	53	47
4	5.0	4.0	9.2	14	57	42	33	43	26	64	53	48
5	6.1	4.7	11	14	170	120	33	37	25	66	56	50
6	5.0	4.5	8.6	11	77	88	33	32	28	65	55	48
7	5.5	4.3	7.4	13	151	105	51	35	42	62	55	42
8	4.7	4.5	9.2	53	1090	83	51	28	51	58	59	30
9	5.3	3.8	10	74	311	58	35	46	57	56	59	29
10	6.6	3.4	9.9	41	254	54	29	35	62	58	60	33
11	8.5	2.4	9.9	71	132	47	48	32	63	59	58	30
12	8.1	3.4	11	76	96	87	47	50	59	55	56	29
13	3.8	4.7	18	24	79	122	41	48	60	54	55	27
14	3.4	5.3	18	28	73	62	27	47	57	56	58	15
15	3.4	5.3	18	25	63	50	26	47	48	54	61	14 E
16	3.6	5.5	16	19	68	42	22	49	48	54	61	12 E
17	3.6	5.5	20	18	56	39	16	49	48	53	61	12 E
18	3.8	5.5	26	16	59	35	15	48	51	53	60	9.9 E
19	4.3	6.9	25	16	50	31	12	52	54	53	59	9.6 E
20	4.3	9.4	26	16	48	34	22	56	53	54	59	8.3
21	4.3	16	26	18	51	29	21	50	55	52	62	9.2
22	3.6	16	26	39	47	26	19	45	52	52	66	9.6
23	2.0	16	31	27	44	26	33	52	53	53	66	8.9
24	1.7	17	82	37	44	27	39	65	54	54	70	11
25	1.2	15	76	190	43	43	37	54	56	56	68	8.0
26	1.1	15	30	235	38	31	47	45	56	57	67	8.0
27	2.9	13	22	81	39	32	68	42	54	59	68	7.7
28	2.9	12	19	54	38	47	43	49	53	60	71	7.7
29	6.1	12	18	41	38	28	23	47	53	62	71	8.0
30	6.3	15	18	28		41	18	44	52	62	71	9.2
31	6.3		17	24		45		37		62	65	
Mean	4.8	8.0	21.2	43.2	121	51.1	33.4	43.6	48.3	57.6	61.0	22.9
Ac-Ft	295	478	1306	2654	6932	3144	1987	2682	2874	3544	3749	1361

E — Estimated NR — No Record Total Discharge in Acre-Feet 31010

TABLE 98

DAILY MEAN DISCHARGE
RECLAMATION DISTRICT 1001 DRAINAGE TO NATOMAS CROSS CANAL

In second-feet

Date	1959			1960								
	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	0	0	2.2	17.5	8.8	15.9	70.6	0.8	4.3	0	2.5
Ac.-Ft.	0	0	0	135	1009	543	948	4344	50	262	0	146

E - Estimated NR - No Record

Total Discharge in Acre-Feet 7437

TABLE 99

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

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12	N	N	N	N	N	N	N	N	N	N	N	N
13	O	O	O	O	O	O	O	O	O	O	O	O
14												
15												
16	P	P	P	P	P	P	P	P	P	P	P	P
17	U	U	U	U	U	U	U	U	U	U	U	U
18	M	M	M	M	M	M	M	M	M	M	M	M
19	P	P	P	P	P	P	P	P	P	P	P	P
20	I	I	I	I	I	I	I	I	I	I	I	I
21	N	N	N	N	N	N	N	N	N	N	N	N
22	O	O	O	O	O	O	O	O	O	O	O	O
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 0

TABLE 100

DAILY MEAN DISCHARGE
SACRAMENTO WEIR SPILL TO YOLO BYPASS

In second-feet

Date	1959			1960								
	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					134							
10					264							
11					228							
12					134							
13	N	N	N	N	18	N	N	N	N	N	N	N
14	O	O	O	O	0	O	O	O	O	O	O	O
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	0	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					0							
30												
31												
Mean	0	0	0	0	26.8	0	0	0	0	0	0	0
Ac.-Ft.	0	0	0	0	1543	0	0	0	0	0	0	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 1543

TABLE 101

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

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0		0	0	0	0	25		0	0	21
2	0	0		0	87	0	0	19		0	0	55
3	0	23		0	43	0	0	0		0	22	38
4	0	0		0	0	49	0	0		0	0	104
5	0	0		0	58	0	0	0		0	0	80
6	0	16		0	53	0	0	0		0	0	88
7	0	0		0	64	0	0	0		0	0	133
8	0	0		0	268	0	0	0		0	0	143
9	0	0		0	130	30	0	0		0	0	146
10	0	0		0	114	62	0	0		0	0	151
11	0	0		0	117	32	27	22		0	0	157
12	0	0		0	53	0	0	40		0	0	98
13	0	0	N	0	78	0	18	0	N	0	0	98
14	0	0	O	0	44	34	0	62	O	0	0	44
15	0	0		0	0	52	0	29		0	0	26
16	0	0	F	0	0	83	0	34	F	0	0	22
17	0	0	L	0	0	31	0	22	L	0	0	44
18	0	0	O	0	56	0	0	33	O	0	17	33
19	0	0	W	0	70	0	0	36	W	0	0	0
20	0	0		0	45	0	0	44		0	0	44
21	0	0		0	0	80	0	34		0	0	0
22	0	0		0	0	0	0	30		0	0	55
23	0	0		0	0	0	0	34		0	0	32
24	0	0		0	0	0	0	132		0	0	25
25	0	26		0	98	0	0	93		0	28	30
26	0	0		22	0	0	0	131		0	0	15
27	0	0		22	22	0	0	131		0	0	0
28	0	0		11	0	0	98	102		0	28	0
29	42	0		11	0	0	72	19		0	39	56
30	0	0		11		0	0	87		28	0	32
31	16			0		0		33		0	52	
Mean	1.9	2.2	0	2.5	48.3	14.6	7.2	40.4	0	0.9	6.0	59.0
Ac.-Ft.	115	129	0	153	2777	899	426	2483	0	56	369	3511

E – Estimated NR – No Record

Total Discharge in Acre-Feet 10920

TABLE 102

DAILY MEAN DISCHARGE
LINDA CREEK NEAR ROSEVILLE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	21	35	26	157	54	55	50 E	23	12	15	21
2	35	19	35	26	208	51	51	53 E	15	8.1	15	21
3	29	20	37	28	83	52	49	49	9.5	6.2	15	15
4	32	25	37	27	73	54	48	48	8.8	4.3	15	14
5	31	20	29	29	352	100	48	47	12	4.9	12	12
6	32	18	24	29	142	134	45	42	11	3.8	8.8	12
7	33	18	23	31	124	128	43	38	12	7.5	7.5	13
8	31	18	26	39	1300	119	42	35	13	8.8	6.2	13
9	31	18	32	63	459	93	32	33	15	8.8	8.8	14
10	35	19	31	70	418	85	31	32	16	8.8	11	15
11	32	19	32	119	202	83	33	35	16	12	10	15
12	31	22	30	127	131	137	38	37	15	11	10	14
13	28	22	22	58	108	288	39	39	15	11	10	11
14	26	23	27	53	90	118	41	38	18	10	9.5	8.8
15	26	25	37	54	82	86	35	34	13	11	13	11
16	23	26	36	46	74	82	31	31	10	10	9.5	16
17	18	27	34	39	68	75	28	27	8.1	10	9.5	17
18	20	26	39	38	67	63	26	21	9.5	10	11	18
19	24	27	31	38	66	63	27	19	7.5	10	11	19
20	22	26	22	39	59	66	27	19	8.8	7.5	11	20
21	23	26	25	48	60	59	26	21	8.8	6.8	11	19
22	21	26	31	64	59	55	26 E	21	9.5	6.2	12	19
23	21	22	32	50	56	53	30 E	31	8.8	6.8	15	18
24	19	21	43	82	54	52	60 E	58	8.8	8.1	16	15
25	20	22	58	249	54	50	50 E	63	12	8.1	17	14
26	18	28	36	242	58	50	50 E	62	12	6.8	15	12
27	18	27	29	116	55	59	70 E	49	14	7.5	15	12
28	23	29	28	74	54	68	50 E	40	14	10	18	12
29	23	21	32	66	56	62	30 E	34	15	11	18	14
30	21	26	29	62		62	25 E	31	18	12	19	15
31	21		27	58		61		25		15	22	
Mean	26.1	22.9	31.9	67.4	164	82.6	39.5	37.5	12.6	8.8	12.8	15.0
Acr-Ft	1605	1363	1962	4146	9459	5082	2352	2305	748	543	787	892

E — Estimated NR — No Record

Total Discharge in Acre-Feet 31240

TABLE 103

DAILY MEAN INFLOW
FOLSOM LAKE

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	318	363	356	436	1680	1670	6280	4100	4270	604	327	176
2	385	454	383	376	4450	1680	5930	4380	5020	647	235	266
3	385	416	292	433	2860	1740	6900	4670	4970	640	265	204
4	417	373	399	418	2380	1710	7600	4310	4140	520	315	188
5	414	438	324	285	2530	2560	7940	4310	3820	537	359	240
6	359	385	356	411	2420	4310	8370	3970	3150	541	250	193
7	373	426	387	440	3180	16980	9420	4700	2910	603	299	268
8	436	400	365	750	61770	21600	8880	5410	2610	523	231	194
9	511	427	288	1350	27180	10620	8290	5950	2380	439	204	307
10	420	456	388	1320	14390	7560	8210	6210	2030	432	365	198
11	495	353	330	1460	8380	5990	7770	6480	2090	371	303	237
12	484	415	429	1730	6190	6800	6250	6880	2090	455	226	360
13	414	405	386	1010	4790	13030	5330	5670	1990	470	252	290
14	432	354	430	780	3960	8900	5640	5250	1780	435	223	156
15	459	405	354	713	3510	6680	5700	5300	1660	419	229	155
16	465	347	523	682	3140	5700	5290	5080	1680	488	235	117
17	470	380	455	537	2960	5040	5170	4790	1350	448	243	221
18	403	389	386	635	2940	5240	5420	4530	1540	486	326	223
19	287	420	382	527	2880	5520	5510	4260	1190	439	221	54
20	435	393	386	577	2450	5910	5490	3920	992	499	264	178
21	459	403	486	616	2320	6040	5810	4140	1160	386	117	226
22	461	353	427	713	2190	6330	5570	3490	987	410	132	282
23	515	398	522	965	2190	6580	4810	3450	975	329	202	295
24	503	413	731	1220	2010	7230	a 4140	3120	817	360	132	268
25	501	382	1020	2440	2030	7690	3870	3050	859	307	200	b 205
26	406	419	930	5670	1920	8030	3560	2970	782	380	199	207
27	413	419	673	3550	1870	8320	4630	3590	670	355	264	232
28	451	405	551	2250	1770	11320	4350	3450	594	230	213	325
29	381	355	512	1760	1830	7290	3850	3800	726	281	233	151
30	483	356	497	1480		7100	3830	3900	576	288	239	200
31	481		442	1300		7520		4190		180	186	
Mean	433	397	464	1188	6282	7184	5994	4494	1993	436	242	221
Acr-Ft	26610	23610	28540	73060	361330	441700	356300	276340	118620	26780	14850	13140

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

Total Discharge in Acre-Feet 1760880

TABLE 104

DAILY MEAN DISCHARGE
ARDEN AREA DRAINAGE TO AMERICAN RIVER (PUMPING PLANT 2)

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12	N	N	N	N	N	N	N	N	N	N	N	N
13	O	O	O	O	O	O	O	O	O	O	O	O
14												
15												
16	F	F	F	F	F	F	F	F	F	F	F	F
17	L	L	L	L	L	L	L	L	L	L	L	L
18	O	O	O	O	O	O	O	O	O	O	O	O
19	W	W	W	W	W	W	W	W	W	W	W	W
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 0

TABLE 105

DAILY MEAN DISCHARGE
ARDEN AREA DRAINAGE TO AMERICAN RIVER (PUMPING PLANT 1)

In second feet

Date	1959			1960								
	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	RECORD SUFFICIENT TO COMPUTE ONLY MONTHLY FLOWS											
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean	4.7	3.3	5.5	18.6	34.0	13.7	6.1	5.0	7.9	8.0	6.2	5.1
Ac-Ft	291	196	341	1142	1954	841	363	310	468	493	383	303

E — Estimated NR — No Record Total Discharge in Acre-Feet 7085

TABLE 106

DAILY MEAN DISCHARGE
SACRAMENTO RIVER AT SACRAMENTO

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9340	7360	7140	8110	16700	15400	31100	18200	13600	10700	9960	9890
2	8590	7400	7180	7930	16600	14900	30500	16800	13700	10900	9870	10100
3	8640	8110	7050	7670	27600	14600	28600	16400	15100	10900	9670	10700
4	8500	7760	7360	7450	31000	13900	27300	16400	15100	11000	9660	10600
5	8330	7710	6960	7320	31400	15100	26200	16600	14900	11300	9600	10700
6	8060	7710	6790	7400	31500	23200	25000	16600	13700	11400	9700	10600
7	7710	7490	6740	7580	31100	34300	24000	15900	12400	11200	9790	10400
8	7890	7270	6660	7760	36900	44000	23700	15400	11600	11000	10000	10500
9	7980	7100	6830	8850	62800	57200	23800	15800	10500	11000	9940	10900
10	7890	6920	6790	9600	69100	60000	23600	16300	10300	11000	9700	10900
11	8060	7100	6830	10100	69100	59200	22800	16500	9380	10900	9660	10800
12	7890	6960	6570	10400	67100	55600	21700	16300	9340	10300	9590	10700
13	7980	6960	6700	11300	64100	50800	20000	16800	9480	10100	9850	10300
14	7930	7140	6260	11000	60900	49400	17700	17000	9360	10100	9760	9820
15	7620	7100	6520	10300	56600	48100	16400	16400	9260	9840	9980	9330
16	7710	7050	6660	10400	49500	44700	15500	15800	9280	9950	9800	9150
17	7800	6960	6830	10200	41600	39900	14500	15500	9240	10200	9610	9180
18	7670	7050	6880	9980	34800	35900	13400	15200	9330	10200	9940	9160
19	8060	7930	6960	9670	30800	32700	12300	15000	9200	9970	9870	9130
20	7620	7930	7050	9640	27300	31300	12300	14600	9310	9820	9690	9170
21	7890	8060	7230	9390	24800	30200	12700	13900	10000	9350	9800	9160
22	7710	7620	7100	9360	22300	28100	12300	13700	10000	9930	9930	9040
23	7760	7100	7100	10300	20600	27000	12300	14000	9890	10500	9560	8910
24	7800	7270	7710	11900	19300	26500	12200	14400	10100	10600	9470	8730
25	8020	7360	7980	13600	18600	26000	12600	16200	10300	10700	9400	8580
26	7930	7320	8810	14800	17800	25800	13400	17400	10300	10400	9550	8470
27	7710	7180	9250	18800	17600	26100	14600	17500	10200	10000	9510	8460
28	7670	7180	8240	19300	17100	27400	17800	17400	10200	9720	9620	8550
29	7320	7100	7710	18300	16600	29900	19300	17300	10400	9670	9760	8670
30	7230	7050	7620	17700		28700	19800	17200	10500	9850	9750	8820
31	7230		7930	17600		28800		15900		9790	9630	
Mean	7921	7342	7208	11090	35560	33700	19250	16080	10870	10400	9730	9647
Ac-Ft	487000	436900	443200	681700	2045000	2072000	1145000	988600	646600	639300	598300	574100

E — Estimated NR — No Record

Total Discharge in Acre-Feet 10760000

TABLE 107

DAILY MEAN DISCHARGE
SCOTT CREEK NEAR LAKEPORT

In second-feet

Date	1959			1960								
	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 NOT SUFFICIENT TO COMPUTE DAILY DISCHARGE								
16				RESULTS OF MEASUREMENTS MADE LISTED IN TABLE 182 OF REPORT.								
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 108

DAILY MEAN DISCHARGE
MIDDLE CREEK NEAR UPPER LAKE

In second-feet

Date	1959			1960								
	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 NOT SUFFICIENT TO COMPUTE DAILY DISCHARGE								
				RESULTS OF MEASUREMENTS MADE LISTED IN TABLE 182 OF REPORT.								
16												
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 109

DAILY MEAN DISCHARGE
CLOVER CREEK NEAR UPPER LAKE

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		NF										
2		NF										
3		NF										
4		NF										
5		NF										
6		NF										
7		NF										
8		NF										
9		NF										
10		NF										
11		NF										
12												
13	N											
14	O											
15				STATION DISCONTINUED ON NOVEMBER 12, 1959								
16	F											
17	L											
18	O											
19	W											
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Mean	0											
Ac-Ft	0											

E – Estimated NR – No Record NF – No flow Total Discharge in Acre-Feet

TABLE 110

DAILY MEAN DISCHARGE
CLOVER CREEK BYPASS NEAR UPPER LAKE

In second feet

Date	1959			1960								
	Oct	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			NR		67 E	0						
2			NR		7.0	0						
3			NR		0	0						
4			NR		0	74						
5			NR		21	152						
6			NR		0	60						
7			NR		178	219						
8			0 E		486	94						
9			0		260	32						
10			0		130	0.8						
11			0		44 E	0						
12			0	N	4.6 E	30	N	N	N	N	N	N
13		NR	0	0	0	17	0	0	0	0	0	0
14		NR	0		0	0						
15		NR	0		0	0						
16		NR	0	F	0	0	F	F	F	F	F	F
17		NR	0	L	0	0	L	L	L	L	L	L
18		NR	0	O	0	0	O	O	O	O	O	O
19		NR	0	W	0	0	W	W	W	W	W	W
20		NR	0		0	0						
21		NR	0		0	0						
22		NR	0		0	0						
23		NR	0		0	0						
24		NR	0		0	0						
25		NR	0		0	0						
26		NR	0		0	0						
27		NR	0		0	0						
28		NR	0		0	0						
29		NR	0		0	0						
30		NR	0			0.7						
31			0			0						
Mean				0	41.3	21.9	0	0	0	0	0	0
Ac-Ft				0	2375	1348	0	0	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 111

DAILY MEAN DISCHARGE
CLOVER CREEK AT UPPER LAKE

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					93	12	27	11	7.4	2.5		
2					79	11	24	11	7.0	2.3		
3					40	13	22	9.6	7.0	2.3		
4					31	119	19	9.1	7.0	2.0		
5					88	147	18	8.7	6.6	1.8		
6					40	130	16	8.7	6.6	1.5		
7				1.3 E	88	157	15	8.7	6.2	1.5		
8				1.5	74	133	14	8.2	6.2	1.3		
9				1.3	151	118	14	8.2	5.8	1.1		
10				1.1	128	97	13	8.2	5.8	1.5		
11				3.3	111	77	12	8.2	5.8	1.3		
12				1.3	92	101	12	7.8	5.0	1.3	N	N
13				1.1	68	107	11	7.4	5.0	0.8	O	O
14				1.8	50	84	11	7.4	4.0	0.8		
15				1.5	41	67	11	7.4	3.8	0.9		
16				1.1	35	55	11	7.4	4.0	0.2	F	F
17				0.9	30	46	11	7.4	3.7	0.5	L	L
18				0.9	29	39	11	7.0	3.7	1.5	O	O
19				0.9	24	34	10	7.0	2.5	0.8	W	W
20				0.9	23	29	9.6	6.6	3.5	0.9		
21				2.6	20	26	9.6	6.2	2.3	0.7		
22				2.8	18	24	9.6	6.2	3.4	0.7		
23				2.5	17	22	10	7.8	3.7	0		
24				16	15	20	9.6	13	3.1	0		
25				11	15	17	9.6	12	3.1	0.4		
26				10	14	17	11	11	3.4	0		
27				12	13	20	23	9.1	3.1	0		
28				35	13	24	14	9.1	2.8	0		
29				4.6	13	19	12	8.7	2.5	0		
30				1.3		40	11	8.2	2.5	0		
31				0.9		32		7.8		0		
Mean					50.1	59.3	13.7	8.5	4.6	0.9	0	0
Ac-Ft					2882	3644	815	524	271	57	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 112

DAILY MEAN DISCHARGE
COPSEY CREEK NEAR LOWER LAKE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				NR	326	3.0	3.8	1.9	0.8	0.4		
2				NR	44	2.6	3.4	2.1	0.7	0.2		
3				NR	35	2.6	3.2	1.9	0.7	0.2		
4				NR	21	4.3	3.0	1.7	0.6	0.1		
5				NR	67	17	2.6	1.6	0.7	0.1		
6				NR	21	15	2.6	1.4	0.7	0.1		
7				NR	88	43	2.4 E	1.4	0.7	0.1		
8				NR	478	15	2.4 E	1.4	0.7	0.1		
9				NR	188	9.3	2.4 E	1.3	0.7	0.1		
10				NR	69	6.8	2.4 E	1.3	0.7	0		
11				NR	32	6.6	2.4 E	1.3	0.7	0		
12	N	N	N	NR	21	61	2.4 E	1.3	0.6	0	N	N
13	O	O	O	NR	15	30	2.4 E	1.3	0.5	0	O	O
14				NR	12	15	2.4 E	1.3	0.6	0		
15				NR	9.6	11	2.4 E	1.1	0.5	0		
16	R	R	R	NR	8.1	8.4	2.4 E	1.1	0.5	0	F	F
17	E	E	E	NR	7.3	6.8	2.4 E	1.1	0.6	0	L	L
18	C	C	C	NR	6.8	6.5	2.1 E	1.1	0.6	0	O	O O
19	O	O	O	NR	6.2	5.9	1.9	1.1	0.5	0	W	W
20	R	R	R	NR	5.8	5.4	1.7	1.1	0.5	0		
	D	D	D									
21				NR	5.5	5.2	1.7	1.0	0.4	0		
22				44	5.2	5.1	1.7	1.0	0.4	0		
23				9.4	4.8	4.8	1.9	2.1	0.4	0		
24				63	4.5	4.5	1.9	1.6	0.4	0		
25				78	4.4	4.3	1.9	1.4	0.4	0		
26				36	4.1	4.0	3.7	1.3	0.2	0		
27				32	3.6	4.7	7.8	1.1	0.3	0		
28				20	3.6	5.5	3.0	1.1	0.3	0		
29				9.9	3.4	4.0	2.3	1.1	0.4	0		
30				7.8		5.2	2.1	1.0	0.3	0		
31				5.5		4.3		1.0		0		
Mean					51.7	10.5	2.6	1.3	0.5	0.0	0	0
Ac-Ft					2975	648	156	82	32	3	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 113

DAILY MEAN DISCHARGE
BEAR CREEK NEAR RUMSEY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.0	1.7	2.4	230	21	21	11	3.4	0.7	0.2	0.7
2	1.1	1.1	1.7	2.2	161	19	20	11	2.8	0.7	0.4	0.7
3	1.1	1.3	1.7	2.0	58	18	19	11	2.4	0.5	0.6	0.8
4	1.1	1.4	1.7	2.2	76	31	18	11	2.2	0.4	0.4	0.7
5	1.3	1.4	1.4	2.0	94	83	17	9.7	2.4	0.3	0.3	0.8
6	1.3	1.3	1.5	2.0	56	71	17	9.4	2.2	0.3	0.3	0.8
7	1.4	1.3	2.0	2.2	175	71	16	8.6	2.4	0.3	0.4	0.9
8	1.4	1.4	2.0	2.6	1600	73	16	8.3	2.4	0.3	0.4	0.9
9	1.5	1.4	2.2	5.0	833	43	15	7.9	2.4	0.2	0.3	0.9
10	1.9	1.4	2.2	10	226	36	14	7.6	2.4	0.2	0.2	0.9
11	1.7	1.4	2.2	7.6	128	33	14	7.3	2.2	0.2	0.2	0.9
12	1.7	1.5	2.2	8.6	89	72	13	6.6	2.2	0.1	0.3	0.8
13	1.4	1.5	2.2	5.7	71	149	13	6.6	1.7	0.2	0.3	0.7
14	1.3	1.5	2.2	5.1	59	59	12	6.6	1.7	0.2	0.3	0.7
15	1.4	1.5	2.0	5.4	51	44	12	6.6	1.7	0.2	0.2	0.8
16	1.5	1.5	2.0	4.9	44	40	11	6.3	1.7	0.2	0.2	0.7
17	1.5	1.5	2.2	4.1	40	35	11	5.7	1.7	0.2	0.2	0.8
18	1.5	1.5	2.2	4.1	38	34	11	5.1	1.5	0.2	0.1	0.9
19	1.5	1.5	2.4	4.4	37	32	11	4.6	1.4	0.2	0.1	0.9
20	1.4	1.5	2.4	4.4	32	29	11	4.4	1.1	0.1	0	0.9
21	1.4	1.5	2.4	6.1	30	28	11	4.1	0.9	0.1	0.1	0.9
22	1.5	1.5	2.4	20	28	27	11	4.1	0.8	0.1	0.1	0.8
23	1.5	1.5	4.6	15	26	26	10	5.4	0.8	0.1	0.1	0.8
24	1.4	1.4	9.7	18	25	25	12	9.4	0.9	0.1	0.2	0.8
25	1.4	1.5	6.9	59	25	23	12	6.9	0.7	0	0.3	0.8
26	1.4	1.5	4.6	81	25	23	12	6.3	0.6	0	0.6	0.9
27	1.4	1.5	3.4	32	23	22	17	5.7	0.7	0.1	0.7	0.9
28	1.4	1.4	3.2	21	22	26	19	6.0	0.7	0.1	0.6	0.9
29	1.3	1.5	3.0	19	21	23	13	5.1	0.7	0.1	0.6	0.9
30	1.0	1.5	2.8	16		22	11	4.1	0.7	0.1	0.6	1.0
31	0.9		2.8	14		23		3.9		0.1	0.7	
Mean	1.4	1.4	2.8	12.5	149	40.7	14.[illegible]	7.0	1.6	0.2	0.3	0.8
Ac-Ft	84	85	170	770	8575	2501	833	429	98	13	2[illegible]	49

E — Estimated NR — No Record

Total Discharge in Acre-Feet 13627

TABLE 114

DAILY MEAN DISCHARGE
CACHE CREEK ABOVE RUMSEY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		NR	5.7	15	1240	135	272	270 E	275	383	380	204
2		NR	6.0	25	1500	132	237	282	336	395	392	202
3		NR	6.2	18	529	145	217	272	368	392	421	194
4		NR	6.7	13	510	162	200	230 E	377	386	414	182
5		NR	6.7	13	701	377 E	184	230 E	398	392	411	175
6		NR	6.7	14	555	718 E	173	300 E	454	424	386	175
7		NR	6.7	14	801	1200 E	173	287	461	450	398	171
8		NR	6.7	15	11600	2000 E	164	306	499	450	408	160
9	NR	NR	6.7	26	8300	1030	155 E	327	517	398	386	151
10	NR	NR	6.7	49	3740	750	148 E	374	590	398	371	150
11	NR	NR	6.7	68	1690	602	140 E	380	582	427	380	150
12	NR	NR	7.2	114	1050	650 E	135	437	551	424	392	150
13	NR	NR	7.7	100	778	1350 E	130 E	417	529	401	362	150
14	NR	NR	7.5	68	615	900 E	160 E	405	521	344	298	150
15	NR	NR	7.7	56	499	594	208	398	521	347	287	150
16	NR	NR	7.7	49	454 E	510	217	377	517	365	287	173
17	NR	NR	8.0	44	414 E	447	221	287	525	386	308	175
18	NR	NR	8.0	41	377 E	411	263	295	485	424	342	177
19	NR	6.4 E	8.3	41	339 E	377	282	344	492	444	356	158
20	NR	6.4	8.6	39	303 E	342	293	362	499	457	362	157
21	NR	6.4	8.6	46	270 E	308	339	344	510	457	362	146
22	NR	6.4	8.6	298	241 E	287 E	430	319	567	467	353	140
23	NR	6.0	14	334	215 E	272 E	496	325	536	471	359	130
24	NR	5.7	35	227	188 E	255	474	293	481	481	347	125
25	NR	5.7	39	588	178 E	237	395	316	471	467	322	125
26	NR	5.5	34	704	169 E	221	314	303	440	444	314	124
27	NR	5.5	27	343	160 E	221	377	285	401	444	311	115
28	NR	5.5	22	363	150 E	241	342	270	377	421	303	111
29	NR	5.7	19	295	143 E	221	300 E	255	386	380	277	111
30	NR	5.7	17	192		241	250 E	246	383	383	253	109
31	NR		16	148		339		255		362	215	
Mean			12.3	141	1300	506	256	316	468	415	347	153
Ac-Ft.			758	8648	74790	31090	15250	19420	27870	25520	21340	9104

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

TABLE 115

DAILY MEAN DISCHARGE
PLEASANTS CREEK NEAR WINTERS

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	74	2.0 E	2.7	1.4				
2				0	13	1.8 E	2.5	1.0				
3				0	3.7	1.8	2.5	1.2				
4				0	3.0	1.8	2.2	1.1				
5				0	44	4.3	2.1	0.8				
6				0	7.1	8.8	2.1	0.8				
7				0	37	12	2.0	0.6				
8				0	377	8.2	2.0	0.6				
9				0	73	4.7	1.8	0.6				
10				0	52	3.7	1.7	0.4				
11				0	19	3.7	1.7	0.5				
12	N	N	N	0	12	15	1.7	0.2	N	N	N	N
13	O	O	O	0	9.4	17	1.6	0.2	O	O	O	O
14				0	7.4	7.1	1.6	0.1				
15				0	6.1	5.8	1.5	0.1				
16	F	F	F	0	5.1	5.1	1.5	0.1	F	F	F	F
17	L	L	L	0	4.5	4.5	1.5	0.1	L	L	L	L
18	O	O	O	0	4.3	4.3	1.4	0	O	O	O	O
19	W	W	W	0	3.9	4.1	1.5	0	W	W	W	W
20				0	3.3	3.9	1.5	0.1				
21				9.8	3.2	3.5	1.4	0.1				
22				3.9	3.0	3.5	1.4	0.1				
23				0.7	2.7	3.5	1.5	0.6				
24				4.5	2.5	3.3	1.5	1.8				
25				7.9	2.5	3.2	1.4	1.1				
26				6.3	2.4	2.8	1.6	0.7				
27				2.7	2.2	3.2	5.6	0.5				
28				2.0	2.2	3.3	2.0	0.2				
29				1.2	2.1	2.8	1.5	0.1				
30				1.0		3.9	1.5	0				
31				0.9		3.2		0				
Mean	0	0	0	1.3	27.0	5.0	1.9	0.5	0	0	0	0
Ac-Ft	0	0	0	81	1550	309	112	30	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 2082

TABLE 116

DAILY MEAN DISCHARGE
PUTAH CREEK BELOW WINTERS

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0		0	48	0	44	18	25	36	49	0.7
2		0		0	100	0	42	18	22	33	61	0.3
3		0		0	16	57	48	19	26	46	59	0.2
4		0		0	4.2	65	49	17	25	41	69	0.1
5		0		0	44	81	48	17	21	41	65	0.3
6		0		0	31	88	46	17	20	41	63	0.3
7		0.8		0	9.3	78	39	18	23	41	67	0.9
8		55		0	568	76	38	17	33	41	59	0.9
9		63		0	323	76	36	13	39	38	61	0.9
10		65		0	109	72	48	11	36	29	61	0.9
11		63		0	49	69	39	15	36	42	63	0.9
12		49		0	25	69	39	9.3	39	44	59	0.5
13	N	48	N	0	15	65	44	9.3	42	39	59	0
14	O	53	O	0	11	69	44	11	44	38	63	0
15		51		0	7.2	69	44	9.3	38	38	53	0
16	F	23	F	0	4.2	63	39	9.3	36	42	14	0
17	L	17	L	0	3.2	61	39	8.6	36	38	22	0
18	O	18	O	0	2.4	63	42	7.8	27	41	20	0
19	W	18	W	0	1.1	61	34	22	26	59	17	0
20		15		0	0.5	61	34	21	27	39	10	0
21		0.4		0	0.3	61	33	25	29	41	12	14
22		0		0	0.1	57	18	27	30	46	7.8	42
23		0		0	0	51	22	34	29	44	23	46
24		0		0	0	51	22	41	22	42	33	48
25		0		0	0	42	18	29	23	44	38	49
26		0		0	0	41	19	25	27	46	39	55
27		0		0	0	72	23	26	39	49	39	74
28		0		13	0	55	18	18	41	44	42	83
29		0		4.7	0	48	19	30	36	46	34	86
30		0		0		44	22	30	38	39	3.2	88
31				0		38		25		38	1.1	
Mean	0	18.0	0	0.6	47.3	58.2	35.0	19.3	31.2	41.5	40.8	19.7
Ac.-Ft.	0	1069	0	35	2720	3576	2083	1185	1855	2551	2511	1174

E – Estimated NR – No Record Total Discharge in Acre-Feet 18760

TABLE 117

DAILY MEAN DISCHARGE
PUTAH CREEK ABOVE DAVIS

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0			4.6	0 E	36	16	15	31	31	0
2		0			137	0	35	15	14	27	36	0
3		0			23	29	37 E	15	16	32	38	0
4		0			9.4	56 E	39	14	16	33	42	0
5		0			38	63 E	38	13	14	31	43	0
6		0			40	71 E	36	13	13	32	41	0
7		0			14	64 E	32	12	15	29	41	0
8		2.3			520 E	60	32	12	20	30	39	0
9		41			400 E	60	29	10	26	28	38	0
10		48			130 E	56	38	7.1	25	22	39	0
11		47			50 E	54	37	9.1	25	29	39	0
12		35			27 E	54	34	5.3	26	31	38	0
13	N	34	N	N	16 E	51	39	3.7	29	27	37	0
14	O	34	O	O	10 E	56	36	4.6	31	26	41	0
15		40			6.0E	53	37	4.6	29	25	39	0
16	F	18	F	F	2.5E	51	35	4.3	28	28	15	0
17	L	11	L	L	1.0E	49	36	4.3	29	28	15	0
18	O	11	O	O	0 E	49	39	2.8	23	27	18	0
19	W	11	W	W	0 E	49	34	8.3	23	38	16	0
20		11			0 E	48	32	11	26	28	8.3	0
21		3.6			0 E	48	31	13	24	27	7.5	0
22		0			0 E	46	20	14	28	29	6.0	0
23		0			0 E	42	19	19	27	27	14	24
24		0			0 E	41	26	23	22	26	24	29
25		0			0 E	39	17	18	23	26	27	30
26		0			0 E	35	18	13	26	27	29	32
27		0			0 E	55	23	13	32	29	29	41
28		0			0 E	45	18	10	36	28	30	48
29		0			0 E	41	17	16	32	31	28	49
30		0				36	19	16	33	28	7.1	49
31						32		15		26	0.4	
Mean	0	11.6	0	0	49.3	46.2	30.6	11.5	24.2	28.5	27.6	10.1
Ac.-Ft	0	688	0	0	2833	2842	1823	704	1440	1757	1698	599

E – Estimated NR – No Record Total Discharge in Acre-Feet 14380

TABLE 118

DAILY MEAN DISCHARGE
SOUTH FORK PUTAH CREEK NEAR DAVIS

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0			0	0	28	8.6	3.6	24	8.2	0
2	0	0			49	0	28	5.9	2.7	20	22	0
3	0	0			18	0	29	2.2	2.5	24	21	0
4	0	0			1.5	19	30	1.9	7.2	28	22	0
5	0	0			0.2	53	30	0.2	10	25	32	0
6	0.6	0			33	76	30	0.4	1.8	20	27	0
7	1.9	0			6.2	67	26	0.2	8.4	12	22	0
8	0.7	0			378	55	24	0	11	20	25	0
9	1.1	0			430	57	16	0.3	24	21	23	0
10	0.1	0			118	50	25	8.2	22	7.6	26	0
11	0.1	24			43	45	28	1.3	20	6.2	23	0
12	0	20			22	48	21	0	20	18	24	0
13	0.1	18	N	N	9.7	43	26	0	22	20	25	0
14	0	17	O	O	3.9	49	26	0	24	13	25	0
15	0.2	22			1.1	46	25	0	24	16	25	0
16	0	10	F	F	0	44	24	0	19	17	11	0
17	0	1.3	L	L	0	43	24	0	26	15	0.8	0
18	0	0.2	O	O	0	42	28	0	24	8.0	1.7	0
19	8.6	0.6	W	W	0	42	24	0	15	25	0	0
20	10	0.5			0	41	21	0	11	21	0	0
21	4.1	0.1			0	41	21	0	21	11	0	0
22	4.1	0			0	39	9.7	0	28	11	0	0
23	1.7	0			0	35	9.3	13	19	10	0.5	0
24	0	0			0	34	19	28	9.5	10	2.5	0
25	1.6	0			0	32	9.3	21	5.9	8.0	3.8	9.0
26	1.2	0			0	29	5.9	9.7	10	13	6.1	15
27	0	0			0	43	21	6.2	13	21	7.0	20
28	0	0			0	39	12	8.0	24	18	9.7	25
29	0	0			0	35	7.0	4.5	24	12	16	26
30	0.2	0				32	6.8	11	25	15	2.6	28
31	0.4					26		12		8.6	0	
Mean	1.2	3.8	0	0	38.4	38.9	21.1	4.6	15.9	16.1	13.3	4.1
Ac-Ft	73	226	0	0	2209	2390	1258	283	947	989	817	244

E — Estimated NR — No Record

Total Discharge in Acre-Feet 9436

TABLE 119

DAILY MEAN INFLOW
MILLERTON LAKE

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	883	202	535	252	956	863	1732	1734	1755	1760	1802	1709
2	902	463	274	162	1861	1175	1698	1699	1734	898	1786	1673
3	503	365	288	113	771	1695	1696	1721	1746	972	1760	1729
4	280	449	239	457	764	783	1715	1695	1767	909	1773	1691
5	794	427	164	249	676	356	1724	1712	1737	1448	1810	1688
6	672	601	150	294	434	337	1699	1716	1757	1294	1714	1679
7	876	295	153	332	570	677	1748	1716	1723	1849	1741	1675
8	881	249	334	274	1191	1249	1697	1741	1723	1695	1721	1704
9	664	336	357	385	2297	1351	1712	1742	1749	903	1749	1667
10	469	380	143	451	2218	700	1728	1724	1742	1057	1763	1698
11	304	419	177	554	1795	828	1703	1717	1731	1423	1754	978
12	646	464	148	493	1758	865	1708	1700	1791	1820	1798	1242
13	666	486	218	676	1060	1001	1716	1718	1769	1868	1748	1724
14	670	325	276	632	1000	1289	1731	1717	1763	1815	1773	1676
15	565	305	312	448	1452	1115	1714	1705	1798	1802	1705	1711
16	621	354	300	340	1716	1073	1706	1742	1729	1799	1732	1911
17	383	438	285	266	1711	990	1733	1713	1780	1884	1664	976
18	354	379	304	387	1734	1055	1731	1715	1804	1864	1702	768
19	567	439	210	505	1669	1389	1701	1765	1798	1866	1707	1185
20	634	458	150	472	1724	1714	17[illegible]	1834	1787	1824	1705	1331
21	732	248	156	410	1725	1759	1696	1867	1770	1765	1755	1303
22	562	242	380	332	1693	1769	1715	1669	1750	1775	1775	1217
23	650	305	311	311	1723	1804	1750	1723	2029	1830	1798	1026
24	241	527	206	423	1689	1780	a 1719	1713	1807	1788	1742	632
25	260	474	356	780	1078	1762	1700	1727	1627	1792	1779	b 865
26	438	229	187	566	1510	1736	1810	1697	1297	1838	1745	1056
27	470	305	195	519	1731	1808	1863	1769	1304	1805	1723	1550
28	606	268	309	678	1767	1778	1700	1706	1573	1807	1683	1610
29	707	271	278	548	1724	1740	1768	1748	1886	1785	1711	987
30	424	441	325	396		1730	1738	1708	1796	1780	1696	716
31	315		257	346		1740		1747		1776	1693	
Mean	572	371	257	421	1448	1287	1727	1729	1734	1629	1742	1379
Ac-Ft	35185	22104	15822	25886	83300	79162	102639	106314	103184	100147	107121	82142

E — Estimated NR — No Record

a 23 hour day.
b 25 hour day.

Total Discharge in Acre-Feet 863006

TABLE 120

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER AT WHITEHOUSE

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	21	23		0	51	46	35	25	22	18	31
2	13	22	22		0	58	40	32	24	21	28	24
3	10	22	21		0	48	35	30	20	24	35	22
4	8	22	19		0	43	31	25	18	25	40	22
5	5	21	17		0	39	30	21	18	28	31	30
6	5	21	14		0	41	23	21	19	28	23	42
7	5	21	14		0	46	18	24	23	31	24	44
8	6	21	15		0	51	15	23	27	32	22	41
9	7	22	14		0	55	14	20	25	28	13	35
10	14	25	14		0	46	14	16	23	24	11	35
11	15	22	14		0	43	19	14	29	23	13	41
12	16	21	13		0	42	19	10	30	30	15	36
13	19	20	12	N	0	40	16	11	25	27	12	33
14	17	21	13	O	0	38	17	14	19	26	16	30
15	17	20	14		0	37	16	15	9	25	24	26
16	14	21	16	F	0	36	18	23	4	20	31	22
17	9	22	14	L	0	33	20	27	3	21	36	22
18	7	21	13	O	0	33	25	27	7	27	37	22
19	6	23	10	W	0	31	30	25	21	30	32	25
20	8	22	7		0	28	30	30	34	27	28	27
21	10	21	6		0	26	32	29	34	29	28	28
22	15	21	5		0	26	24	26	39	32	33	30
23	16	21	5		0	23	27	28	33	34	35	31
24	17	21	4		0	17	a 30	35	23	34	38	30
25	18	20	3		0	15	35	36	23	37	34	b 20
26	21	21	2		0	15	51	35	28	40	28	19
27	26	18	1		0	18	51	27	31	36	19	17
28	24	22	0		0	21	57	22	33	28	17	14
29	20	21	0		9	30	69	21	28	19	17	13
30	19	21	0			47	55	21	23	14	19	11
31	21		0			53		21		12	35	
Mean	14	21	10	0	0.3	36	30	24	23	27	26	27
Ac-Ft	835	1265	644	0	18	2241	1797	1476	1384	1654	1571	1634

E — Estimated NR — No Record

Total Discharge in Acre-Feet 14519

a 23 hour day.
b 25 hour day.

TABLE 121

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER NEAR MENDOTA

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	172	36	67	7	75	182	210	176	363	457	470	275
2	151	36	54	6	38	174	237	187	360	477	469	272
3	91	35	55	5	19	172	266	239	360	469	463	275
4	86	53	55	4	15	174	259	250	368	444	463	279
5	72	72	54	2	15	176	252	254	383	449	447	284
6	58	70	53	0	15	183	244	289	386	455	396	286
7	70	68	53	0	14	170	239	314	386	460	394	286
8	80	68	53	105	14	149	252	314	404	460	391	286
9	82	77	53	157	14	142	261	326	417	460	402	284
10	89	85	51	146	14	146	256	338	444	458	420	286
11	89	85	51	119	14	160	250	338	428	455	438	289
12	91	76	51	83	14	160	235	338	420	444	436	293
13	91	67	51	63	11	159	233	336	436	422	428	293
14	86	67	51	53	12	157	248	334	466	420	425	291
15	78	67	50	29	12	157	259	334	466	428	415	286
16	77	68	49	16	11	155	250	404	452	452	402	286
17	76	70	50	13	12	164	233	415	438	452	399	282
18	76	70	35	12	15	172	254	373	438	452	399	277
19	91	70	17	22	65	170	275	383	436	438	425	275
20	108	68	17	28	164	168	272	383	441	422	420	272
21	104	67	18	28	172	210	305	381	452	422	412	270
22	102	65	17	24	178	279	376	381	469	422	412	268
23	102	60	16	21	180	279	378	381	483	422	402	266
24	101	35	16	21	174	319	376	394	483	422	383	268
25	101	31	15	18	178	363	363	430	485	425	383	266
26	101	49	15	58	180	343	360	425	485	422	376	266
27	102	54	15	241	183	319	291	383	495	412	348	275
28	99	64	15	264	183	222	263	366	505	399	353	300
29	91	72	14	80	187	212	222	363	505	399	356	312
30	86	72	11	80		210	180	363	477	409	338	312
31	62		8.0	78		208		363		430	314	
Mean	92.0	63.0	36.0	58	75	202	270	340	438	437	406	280
Ac-Ft	5690	3720	2240	3540	4320	12400	16060	20940	26050	26890	24950	16780

E — Estimated NR — No Record

Total Discharge in Acre-Feet 163580

TABLE 122

DAILY MEAN DISCHARGE
DRAIN AT HEAD OF FIREBAUGH WASTEWAY NEAR FIREBAUGH

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.1 E	0.1 E			NR	3.9	4.4	4.5	10	0.2	2.3
2	3.5	0.1 E	0.1 E			NR	3.8	1.0	3.5	10	0	5.7
3	5.9	0.1 E	0.1 E			1.3 E	3.9	0.9	4.4	12	1.2	5.5
4	6.6	0.1 E	0.1 E			1.9	2.1	0.8	1.0	12 E	9.1	7.9
5	4.5	0.1 E	0.1 E			1.0	3.9	0.6	0.5	6.4	11	4.3
6	4.3	0.1 E	0.1 E			2.7	2.5	0.9	0.5	3.9	11	7.2
7	6.3	0.1 E	0.1 E			6.6	0.4	1.4	1.6	1.0	11	11
8	3.9	0.1 E	0.1 E			4.4	3.1	1.4	2.8	1.6	9.7	6.3
9	1.7	0.4				6.8	4.6	2.3	5.0	2.1	4.1	8.3
10	1.6	0.6	0.1 E			7.7	9.5	5.4	7.9	0.8	4.7	10
11	0.3	0.9	0.1 E			3.9	13 E	3.3	8.0	0.9	8.8	10
12	0.1 E	1.2	0.1 E	N	N	13 E	7.6	3.2	4.7	1.6	7.7	5.4
13	0.1 E	1.4	0.1 E	O	O	10	6.9	2.5	1.4	1.5	13	1.7
14	0.1 E	0.7	0.1 E			12 E	10	1.9	0.9 E	0.7	16 E	0.4
15	0.1 E	0.1 E	0.1 E			16 E	8.5	2.5	3.8 E	0.6	16 E	1.0
16	0.1 E	0.1 E	0.1 E	R	R	13 E	8.3	1.3	3.8 E	8.0	16 E	9.3
17	0.1 E	0.1 E	0.1 E	E	E	14 E	8.3	0.2	3.8 E	14 E	14 E	9.1
18	0.1 E	0.1 E	0.1 E	C	C	8.0	10	1.0	3.8 E	8.6	10 E	11
19	0.1 E	0.1 E	0.1 E	O	O	9.4	9.4	3.4	3.8 E	3.4	4.9	9.7
20	0.1 E	1.2	0.1 E	R	R	2.0	11	2.8	3.8 E	6.3	6.0	9.9
				D	D							
21	0.1 E	1.9	0.1 E			0.6	11	3.4	3.8 E	8.0	3.6	10
22	0.1 E	3.2	0.1 E			0.6	4.6	3.4	3.8 E	10	4.9	4.0
23	0.1 E	0.2	NR			0.5	10	5.3	3.8	13 E	4.3	3.3
24	0.1 E	0.1 E	NR			8.0	11	5.9	6.4	12 E	1.4	4.2
25	0.1 E	0.1 E	NR			9.4	9.9	8.9	5.0	14	0.1	3.4
26	0.1 E	0.1 E	NR			7.4	11	3.4	7.9	14	0.3	4.6
27	0.1 E	0.1 E	NR			6.1	12	1.2	8.3	7.3	0.2	3.1
28	0.1 E	0.1 E	NR			5.3	11	1.4	7.5	2.3	0	9.4
29	0.1 E	0.1 E	NR			5.4	3.6	2.6	3.5	1.0	0.1	7.6
30	0.1 E	0.1 E	NR			7.4	4.8	0.1	5.9	1.9	2.3	5.8
31	0.1 E		NR			6.3		0		2.6	1.3	
Mean	1.3	0.5					7.3	2.5	4.2	6.2	6.2	6.4
Ac-Ft.	81	27					436	152	249	380	383	380

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 123

DAILY MEAN DISCHARGE
HELM RANCH DRAIN NEAR FIREBAUGH

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	0.3	0.4									
2	2.8	1.6	0.4									
3	0.6	1.5	0.4									
4	0.3	0.3	0.4									
5	0.3	0.2	0.4									
6	0.3	0.2	0.4									
7	0.3	0.1	0.4									
8	0.3	0.2	0.4									
9	0.3	0.2	0.4									
10	0.3	0.1	0.4									
11	0.3	0.2	0.4									
12	0.8	2.0	0.4									
13	0.3	1.9	0.2									
14	0.2	0.4	0.4									
15	0.8	0.3	0.4									
16	0.3	0.3	0.3									
17	0.2	0.3	0.3									
18	0.4	0.3	0.2									
19	0.3	1.2	0.2									
20	0.4	4.0	0.2									
21	0.6	3.5	0.2									
22	0.5	2.1										
23	0.4	1.7										
24	0.3	1.6										
25	0.3	1.5										
26	0.4	1.5										
27	0.5	1.6										
28	0.5	1.6										
29	0.3	1.0										
30	0.3	0.5										
31	0.3											
Mean	0.5	1.1										
Ac-Ft	31	64										

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 124

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER NEAR DOS PALOS

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	21	0	0	0	0	8	0	5	2
2			0	21	0	0	6	0	12	7	4	8
3			0	21	0	7	8	0	12	12	0	12
4			0	22	0	12	12	0	12	12	0	5
5			0	22	0	12	12	0	9	4	0	8
6			0	17	0	12	10	0	8	3	0	12
7			0	15	0	12	0	0	12	6	0	12
8			0	13	0	12	0	0	12	0	0	12
9			0	75	2	12	2	0	12	0	8	7
10			0	138	7	12	0	0	6	0	12	8
11			0	132	7	7	4	0	0	7	4	4
12			0	125	7	0	8	0	0	12	0	8
13	N	N	0	100	8	0	0	0	0	6	0	8
14	O	O	0	78	8	0	0	0	9	5	0	0
15			0	49	8	8	8	0	12	4	8	0
16	F	F	0	22	7	9	12	0	12	0	12	0
17	L	L	0	6	7	0	4	1 E	12	0	4	0
18	O	O	0	4	8	0	0	2 E	12	7	0	0
19	W	W	0	0	4	8	0	3 E	12	10	0	7
20			0	0	0	4	0	5 E	9	0	0	4
21			0	0	0	0	0	6 E	12	5	0	0
22			0	0	0	0	9	8 E	12	4	5	3
23			10	0	0	0	12	9 E	0	0	0	3
24			18	0	0	0	4	11 E	8	0	8	0
25			18	0	0	0	0	12 E	12	0	4	0
26			19	0	0	0	0	10 E	12	5	0	5
27			19	22	0	0	10 E	9 E	12	8	0	4
28			19	207	0	0	20 E	7 E	12	0	5	0
29			20	200	0	0	15 E	6 E	7	0	8	0
30			20	37		0	7 E	4 E	0	0	32 E	0
31			20	0		0		3 E		0	37 E	
Mean	0	0	10.3	43	3	4	5	3	9	4	5	4
Ac-Ft	0	0	320	2670	145	252	323	190	532	232	309	262

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5235

TABLE 125

DAILY MEAN DISCHARGE
PANOCHE DRAIN NEAR DOS PALOS

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.8	5.0	1.3	5.1	5.5	10	6.7	11	16	9.5	15 E	18 E
2	2.8	3.0	1.3	3.9	3.7	7.6	7.4	11	19	11	14 E	19
3	3.4	2.0	1.2	4.3	2.8	8.6	6.7	11	23	11	13 E	13
4	3.4	2.0	1.1	3.3	2.4	14	7.1	9.9	22	14	12 E	13
5	3.3	2.0	1.0	1.6	4.9	14	6.9	12	22	14	16 E	16
6	3.2	1.9	1.0	1.5	6.3	14	7.8	11	15	12	13 E	17
7	3.6	1.9	1.2	1.5	4.4	14	6.5	11	12	9.6	13 E	16
8	3.8	1.9	1.2	1.6	3.9	16	7.0	10	11	10	14 E	15
9	3.8	2.1	1.0	2.2	3.9	11	7.0	10	11	8.4	18 E	12
10	5.6	1.9	1.0	2.2	5.0	6.2	11	8.3	14	9.5	13 E	13
11	6.1	1.8	0.8	1.6	4.5	7.2	11	9.6	11	9.5	16 E	11
12	3.6	1.8	0.9	1.2	4.8	7.2	9.4	16	8.8	12	16 E	7.9
13	4.1	2.0	1.0	1.2	3.6	10	8.6	14	13	14 E	15 E	7.3
14	3.4	1.8	0.9	2.3	4.7	8.1	11	14	14	14 E	17 E	8.9
15	2.8	1.7	1.0	1.6	4.7	9.6	11	12	13	14 E	15 E	8.9
16	3.6	1.6	1.4	1.3	3.5	11	10	11	16	14 E	12 E	7.4
17	4.5	1.5	2.4	1.3	6.3	9.4	11	12	11	14 E	11 E	9.2
18	2.4	1.5	4.5	1.3	9.0	9.7	10	13	12	14 E	14 E	11
19	2.6	1.4	4.2	1.5	9.6	11	10	15	13	14 E	16	9.5
20	2.4	1.4	6.1	1.6	8.2	11	10	16	13	19 E	16	9.2
21	2.5	1.5	7.1	1.8	11	15	12	15	15	17	16	9.4
22	2.7	1.8	9.6	1.8	10	13	13	14	14	17	16	11
23	4.4	1.5	6.9	1.8	4.9	20	16	11	13	17	19	9.4
24	3.4	1.6	4.9	2.1	5.4	21	14	11	14	17	18	6.2
25	3.1	1.4	5.5	2.7	8.7	13	13	12	11	14	21	4.6
26	3.0	1.2	8.2	2.4	12	10	15	13	12	13	19 E	4.3
27	3.0	1.1	7.7	1.8	6.9	9.9	28	12	13	19	17 E	3.1
28	3.1	1.1	11	2.0	5.7	8.3	20	14	14	17 E	18 E	3.1
29	4.2	1.2	11	3.0	8.3	9.4	14	16	12	14 E	18 E	4.0
30	3.8	1.3	4.1	3.0		8.5	11	17	9.5	13 E	18 E	3.4
31	4.0		5.8	3.5		8.2		18		15 E	19 E	
Mean	3.6	1.8	3.8	2.2	6.0	11.2	11.1	12.6	13.9	13.6	15.7	10.0
Ac.-Ft.	217	107	231	135	346	686	659	775	828	834	968	597

E — Estimated NR — No Record

Total Discharge in Acre-Feet 6383

TABLE 126

DAILY MEAN DISCHARGE
BIG CREEK DIVERSION NEAR FISH CAMP

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	1.7	1.5	4.0 E	7.2 E	6.8	25	25	21	5.8	0.5	1.2
2	2.6	1.5	1.5	3.9 E	11	5.5	26	25	19	5.8	0.5	1.1
3	2.6	1.7	1.5	3.8 E	8.4 E	6.1	26	25	19	5.5	0.5	1.2
4	2.6	1.7	0.7 E	3.7 E	6.5	5.8	26	24	17	5.2	0.5	1.2
5	2.4	1.5	0.5 E	3.6 E	8.4	5.8	26	25	16	5.2	0.5	1.1
6	2.4	1.5	0.2 E	3.5 E	8.8	5.8	26	25	15	4.6	0.5	1.0
7	2.4	1.5	0 E	3.5 E	8.4	5.8	26	25	13	4.6	0.6	1.0
8	2.4	1.5	0.5 E	3.4 E	11	6.1	26	26	13	4.6	0.5	1.0
9	2.2	1.5	0.3 E	3.3 E	8.4	5.8	26	25	12	4.3	0.5	1.0
10	2.2	1.5	0.3 E	3.2 E	12 E	5.8	26	26	11	4.3	0.5	1.4
11	2.2	1.5	0.1 E	3.1 E	12 E	5.5	25	26	11	4.0	0.5	1.4
12	2.2	1.5	0.2 E	3.0 E	12 E	5.5	24	26	11	3.8	1.0	1.2
13	2.2	1.5	0.3 E	3.0 E	12 E	5.8	24	26	10	3.8	1.5	1.1
14	2.2	1.5	0.1 E	2.9 E	6.5	5.5	24	25	9.2	3.5	1.5	1.0
15	2.0	1.5	1.2 E	2.8 E	7.6	5.5	24	11	9.2	2.3	1.4	1.0
16	2.0	1.7	1.4	2.7 E	6.7	5.5	24	14	8.8	0.8	1.5	1.0
17	2.0	1.5	1.4	2.6 E	5.0	5.5	24	33	8.4	0.7	1.4	1.0
18	1.9	1.5	1.4	2.6 E	6.5	5.5	24	32	8.0	0.7	1.4	1.0
19	1.9	1.5	1.2	2.5 E	7.0	5.5	24	31	7.6	0.7	1.4	1.0
20	1.9	1.5	1.4	2.4 E	4.9	5.5	24	32	7.6	0.7	1.2	1.1
21	1.9	1.5	1.4	2.3 E	5.8	4.9	25	31	7.6	0.6	1.1	1.1
22	1.9	1.5	1.4	8.0 E	5.7	16	25	30	7.2	0.6	1.2	1.1
23	1.9	1.5	1.4	6.0 E	6.1	26	24	27	6.5	0.6	1.4	1.1
24	1.9	1.5	5.2 E	6.0 E	5.0	26	23	25	6.5	0.6	1.4	1.1
25	1.9	1.5	4.6	10 E	6.5	27	23	24	6.5	0.5	1.4	1.0
26	1.7	1.4	2.2	10 E	6.8	27	23	24	6.1	0.5	1.2	1.0
27	1.7	1.5	2.8	7.0 E	6.8	30	23	25	6.1	0.5	1.4	1.0
28	1.7	1.5	2.6	5.0 E	6.8	29	23	25	6.1	0.5	1.2	1.0
29	1.7	1.5	2.4	4.5 E	6.8	27	23	24	6.1	0.5	1.2	1.1
30	1.5	1.4	4.1 E	4.3 E		26	24	23	5.8	0.5	1.2	1.1
31	1.5		4.0 E	4.3 E		26		23		0.5	1.1	
Mean	2.1	1.5	1.6	4.2	7.8	12.2	24.5	25.4	10.4	2.5	1.0	1.1
Ac-Ft.	128	90	95	260	449	753	1460	1563	617	152	63	65

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5695

TABLE 127

DAILY MEAN DISCHARGE
MIAMI CREEK NEAR OAKHURST

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				1.5E	31	5.5	11	15	3.1	1.3	0.2	0
2				1.5E	22	5.1	9.5	14	2.8	1.3	0.1	0
3				1.5E	9.0	4.8	8.5	12	2.7	1.3	0.9	0
4				1.5E	7.1	5.0	7.5	12	2.6	1.3	0.2	0
5				1.5E	6.7	5.0	7.1	11	2.5	1.2	0.1	0
6				1.5E	7.1	5.5	6.5	10	2.5	1.0	0	0.2
7				1.5E	6.7	6.5	5.9	9.8	2.5	1.5	0.4	0.2
8				1.5E	75	10	5.5	9.5	2.5	0.7	0.4	0.2
9				1.5E	39	7.8	5.5	8.7	2.5	1.3	0.2	0.9
10				2.0E	16	6.9	5.3	7.3	2.3	0.7	0.1	0.6
11				1.8E	11	6.5	5.1	6.5	1.9	0.4	0	0.5
12				1.8E	9.0	6.5	5.3	5.9	0.9	1.1	0.5	0.2
13				1.8E	8.5	15	5.0	5.9	0.9	1.1	0.2	0.2
14				1.8E	7.8	9.2	4.8	5.5	1.1	0.3	0.1	0.1
15			1.4E	1.8E	7.1	7.8	4.6	5.1	1.3	0.4	0	0.1E
16			1.4	1.8E	7.1	7.1	4.5	4.8	1.4	1.2	0	0.2E
17			1.4	1.8E	6.9	7.1	4.3	4.8	1.6	1.3	0.6	0.2
18			1.3	1.8E	6.9	6.9	4.0	4.5	1.6	0.3	0.3	0.2
19			1.3	1.8	6.3	7.1	4.0	4.5	1.6	0.2	0.1	0.2
20			1.4	1.8	5.9	6.9	3.9	4.3	1.8	0.3	0	0.2
21			1.4	1.8	5.9	6.7	3.6	4.2	1.8	1.1	0	0.2
22			1.4	2.6	5.9	6.5	3.6	4.0	1.7	0.4	0.2	0.2
23			1.4	2.5	5.7	6.3	4.8	4.0	1.6	0.1	0.7	0.2
24			2.4	2.5	5.1	6.3	5.2	4.0	1.5	0.5	0.2	0.2
25			4.9	12	5.0	6.3	5.1	4.0	1.5	1.1	0.1	0.2
26			2.4	11	5.0	6.1	6.8	3.9	1.4	1.1	0	0.2
27			2.1	6.5	5.0	19	22	3.7	1.5	0.2	0.8	0.2
28			1.9	5.0	5.0	30	15	3.6	1.5	0.1	1.3	0.2
29			1.8	4.1	5.3	16	13	3.3	1.4	0.1	0.6	0.2
30			1.5	4.2		14	13	3.3	1.4	0.4	0.2	0.2
31			1.4	4.0		13		3.1		0.8	0.1	
Mean				[illegible]	11.9	8.9	7.0	6.5	1.[illegible]	0.[illegible]	0.3	0.[illegible]
Ac.-Ft				1[illegible]0	6[illegible]	544	417	402	110	48	17	12

E – Estimated NR – No Record

Total Discharge in Acre-Feet

TABLE 128

DAILY MEAN DISCHARGE
EAST FORK CHOWCHILLA RIVER NEAR AHWAHNEE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	1.2	2.1	2.8	81	16	34	32	5.8	0.4		
2	0.7	1.4	2.1	2.8	94	14	29	29	4.7	0.4		
3	0.7	1.4	2.1	2.8	23	13	24	25	4.3	0.3		
4	0.7	1.5	1.9	2.8	17	12	21	30	3.7	0.3		
5	0.7	1.5	1.9	2.8	14	12	19	25	3.4	0.2		
6	0.7	1.9	1.7	2.8	15	12	17	20	3.1	0.2		
7	0.7	1.9	1.9	3.1	12	12	15	19	3.1	0.1		
8	0.8	1.9	1.9	3.4	146	17	15	18	3.1	0.1		
9	0.8	1.9	1.9	3.4	228	13	14	17	3.1	0.1		
10	0.9	1.9	1.9	7.7	207	12	14	15	2.8	0		
11	0.9	1.9	1.9	11	88	11	13	14	2.6	0		
12	0.9	1.9	1.9	12	56	11	13	13	2.1	0	N	N
13	0.8	1.9	1.9	7.7	42	69	12	12	1.9	0	O	O
14	0.8	1.9	1.9	6.3	34	28	11	12	1.6	0		
15	0.7	1.9	1.9	7.2	28	20	9.8	11	1.4	0		
16	0.7	1.9	2.1	6.7	25	18	10	10	1.2	0	F	F
17	0.7	2.3	2.1	5.5	24	18	9.3	10	1.2	0	L	L
18	0.7	2.1	2.3	5.1	25	16	8.7	10	1.2	0	O	O
19	1.1	2.1	2.3	4.3	25	15	8.2	9.8	1.1	0	W	W
20	0.9	2.3	2.3	4.3	21	14	7.7	9.3	0.9	0		
21	0.9	2.3	2.1	4.3	20	12	6.3	8.7	0.9	0		
22	0.9	2.3	2.1	5.1	19	12	6.3	8.7	0.8	0		
23	0.9	2.3	2.1	5.9	18	12	8.2	8.7	0.7	0		
24	0.9	2.3	2.8	5.9	16	11	18	8.7	0.7	0		
25	0.9	2.1	5.9	24	14	10	14	8.2	0.6	0		
26	0.9	2.1	5.5	22	14	9.8	13	8.2	0.6	0		
27	0.9	2.1	3.7	13	14	38	137	7.7	0.6	0		
28	1.1	2.1	3.4	9.3	13	181	97	6.7	0.6	0		
29	1.2	2.1	2.8	7.2	14	58	50	6.3	0.5	0		
30	1.2	2.1	2.8	6.3		44	36	5.9	0.5	0		
31	1.2		2.8	5.9		52		5.5		0		
Mean	0.9	2.0	2.5	6.9	46.4	25.6	23.0	13.7	2.0	0.1	0	0
Ac-Ft	53	116	151	423	2672	1573	1370	842	120	4	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 7324

TABLE 129

DAILY MEAN DISCHARGE
MIDDLE FORK CHOWCHILLA RIVER NEAR NIPINNAWASEE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0.1	0.2	28	3.5	8.8	5.2	0.3			
2		0	0.1	0.2	31	2.9	7.1	4.3	0.2			
3		0	0.1	0.2	7.1	2.6	6.2	3.7	0.1			
4		0	0.1	0.2	4.3	2.5	5.2	4.5	0.1			
5		0	0.1	0.2	3.7	2.5	4.7	3.9	0.1			
6		0	0.1	0.2	3.7	2.3	4.3	3.1	0.1			
7		0	0.1	0.2	3.1	2.3	3.9	2.8	0.1			
8		0	0.1	0.2	70	2.8	3.7	2.6	0.1			
9		0	0.1	0.2	111	2.3	3.3	2.3	0.1			
10		0	0.1	1.4	92	2.1	3.1	2.1	0.1			
11		0	0.1	2.1	30	1.8	3.1	1.9	0			
12	N	0	0.1	2.3	18	2.2	3.1	1.5	0	N	N	N
13	O	0	0.1	1.1	13	34	2.9	1.5	0	O	O	O
14		0	0.1	0.8	9.9	9.5	2.8	1.5	0			
15		0	0.1	1.0	8.1	6.2	2.6	1.4	0			
16	F	0	0.2	0.8	6.8	5.2	2.6	1.4	0	F	F	F
17	L	0	0.2	0.6	6.0	4.3	2.5	1.3	0	L	L	L
18	O	0	0.2	0.4	5.7	3.5	2.2	1.2	0	O	O	O
19	W	0	0.1	0.4	5.7	3.1	2.1	1.1	0	W	W	W
20		0.1	0.2	0.3	4.5	2.8	1.9	1.1	0			
21		0.1	0.2	0.3	4.1	2.6	1.7	1.0	0			
22		0.1	0.2	0.3	3.9	2.3	1.4	1.1	0			
23		0.1	0.2	0.3	3.7	2.2	2.1	1.0	0			
24		0.1	0.3	0.4	3.3	2.1	3.9	1.0	0			
25		0.1	0.9	4.1	3.1	1.9	3.1	0.9	0			
26		0.1	0.5	3.5	3.1	1.8	2.2	0.9	0			
27		0.1	0.4	1.9	2.9	6.4	37	0.8	0			
28		0.1	0.3	1.1	2.8	116	29	0.6	0			
29		0.1	0.2	0.9	3.1	16	9.9	0.5	0			
30		0.1	0.2	0.7		11	6.5	0.4	0			
31			0.2	0.7		13		0.3				
Mean	0	0.0	0.2	0.9	17.0	8.8	5.8	1.8	0.0	0	0	0
Ac-Ft	0	2	12	54	975	543	343	113	3	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 2045

TABLE 130

DAILY MEAN DISCHARGE
WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0.2	0.7	99	5.9	15	7.8	0.8			
2		0	0.3	0.7	65	4.6	12	6.6	0.6			
3		0	0.3	0.7	13	4.3	10	6.1	0.6			
4		0.1	0.3	0.8	7.0	4.1	8.3	8.0	0.5			
5		0.1	0.3	0.8	5.7	4.1	7.3	6.4	0.4			
6		0.1	0.3	0.9	5.1	4.1	6.1	5.5	0.4			
7		0.1	0.3	1.0	3.8	4.3	5.3	5.1	0.4			
8		0.1	0.3	1.1	95	4.9	4.9	4.8	0.4			
9		0	0.4	1.2	233	4.1	4.6	4.4	0.3			
10		0.1	0.4	4.1	148	3.8	4.3	4.3	0.3			
11		0	0.3	5 5	50	3.6	4.1	4.1	0.3			
12	N	0	0.4	5.5	27	5.2	3.8	3.8	0.2	N	N	N
13	O	0	0.4	2.6	19	54	3.3	3.6	0.2	O	O	O
14		0	0.4	2.1	15	14	3.1	3.3	0.1			
15		0	0.4	2.6	12	9.4	2.8	3.2	0.1			
16	F	0	0.4	2.0	9.9	7.8	2.7	3.1	0.1	F	F	F
17	L	0	0.4	1.4	8.3	6.6	2.6	2.9	0.1	L	L	L
18	O	0.1	0.4	1.1	8.5	5.9	2.5	2.7	0.1	O	O	O
19	W	0.1	0.4	1.0	9.1	5.3	2.1	2.5	0	W	W	W
20		0.1	0.4	0.8	6.6	4.8	2.0	2.2	0			
21		0.1	0.4	0.8	6.1	4.4	1.8	2.1	0			
22		0.1	0.4	0.9	5.7	4.3	1.8	2.1	0			
23		0.1	0.4	0.9	5.5	4.1	2.2	2.2	0			
24		0.1	0.7	1.1	5.1	3.9	4.8	2.1	0			
25		0.1	1.4	10	4.9	3.6	3.3	2.0	0			
26		0.2	1.0	11	4.9	3.5	3.4	1.8	0			
27		0.2	0.6	3.6	4.6	23	57	1.7	0			
28		0.2	0.6	2.1	4.4	162	46	1.5	0			
29		0.2	0.6	1.7	5.5	33	17	1.3	0			
30		0.2	0.6	1.5		24	11	1.1	0			
31			0.7	1.3		26		1.0				
Mean	0	0.1	0.5	2.3	30.6	14.6	8.5	3.5	0.2	0	0	0
Ac-Ft.	0	5	29	142	1759	898	506	217	12	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 3568

TABLE 131

DAILY MEAN DISCHARGE
STRIPED ROCK CREEK NEAR RAYMOND

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.1	0.1	44	1.5	4.0	1.2				
2	0.1	0.1	0.1	0.1	16	1.2	3.4	1.0				
3	0.1	0.1	0.1	0.1	4.3	1.2	3.1	0.8				
4	0.1	0.1	0.1	0.1	2.8	1.2	2.6	1.0				
5	0.1	0.1	0.1	0.1	2.6	1.2	2.3	0.8				
6	0.1	0.1	0.1	0.1	2.8	1.2	1.9	0.6				
7	0.1	0.1	0.1	0.2	2.1	1.2	1.7	0.6				
8	0.1	0.1	0.1	0.2	58	1.2	1.5	0.5				
9	0.1	0.1	0.1	0.2	89	0.8	1.5	0.4				
10	0.1	0.1	0.1	0.7	105	0.8	1.4	0.3				
11	0.1	0.1	0.1	0.7	16	0.7	1.4	0.2				
12	0.1	0.1	0.1	0.6	10	0.8	1.4	0.2				
13	0.1	0.1	0.1	0.2	7.8	1.9	1.1	0.2	N	N	N	N
14	0.1	0.1	0.1	0.5	5.9	1.0	1.0	0.1	O	O	O	O
15	0.1	0.1	0.1	0.7	5.4	0.6	0.8	0.1				
16	0.1	0.1	0.1	0.3	4.7	0.6	0.8	0.1	F	F	F	F
17	0.1	0.2	0.1	0.2	4.3	0.6	0.7	0.1	L	L	L	L
18	0.1	0.1	0.1	0.2	4.3	0.4	0.6	0.1	O	O	O	O
19	0.1	0.1	0.1	0.2	4.0	0.4	0.6	0.1	W	W	W	W
20	0.1	0.1	0.1	0.1	2.8	0.4	0.5	0				
21	0.1	0.1	0.1	0.1	2.8	0.2	0.4	0				
22	0.1	0.1	0.1	0.2	2.6	0.2	0.4	0.1				
23	0.1	0.1	0.1	0.2	2.3	0.2	0.6	0.1				
24	0.1	0.1	0.2	0.2	2.1	0.2	1.9	0.1				
25	0.1	0.1	0.2	1.2	2.1	0.2	0.7	0.1				
26	0.1	0.1	0.1	0.6	2.1	0.4	1.0	0				
27	0.1	0.1	0.1	0.3	1.7	4.1	9.6	0				
28	0.1	0.1	0.1	0.2	1.5	34	6.8	0				
29	0.1	0.1	0.1	0.2	1.7	6.3	2.3	0				
30	0.1	0.1	0.1	0.2		5.0	1.7	0				
31	0.1		0.1	0.2		4.0		0				
Mean	0.1	0.1	0.1	0.3	14.2	2.4	1.9	0.3	0	0	0	0
Ac-Ft	6	6	7	18	815	148	114	17	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 1131

TABLE 132

DAILY MEAN DISCHARGE
MARIPOSA CREEK NEAR CATHAY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.3	0.9	1.5	188	7.3	25	9.2	0.3			
2	0.1	0.4	0.9	1.4	139	6.6	21	7.1	0.3			
3	0.1	0.4	0.9	1.5	29	5.9	17	5.9	0.2			
4	0.1	0.3	0.9	1.4	15	5.7	15	5.7	0.1			
5	0.1	0.3	0.9	1.4	12	5.7	13	5.7	0.1			
6	0.1	0.3	0.9	1.4	13	5.9	11	4.6	0.1			
7	0.1	0.3	0.9	1.5	9.8	5.9	9.8	3.9	0.1			
8	0.1	0.3	0.9	1.6	165	7.3	8.7	3.6	0.1			
9	0.1	0.4	1.0	1.8	592	6.6	7.8	3.2	0			
10	0.1	0.4	1.0	8.0	481	5.9	7.1	2.9	0			
11	0.2	0.4	1.0	7.6	121	5.7	6.6	2.5	0			
12	0.2	0.4	1.3	17	54	6.1	6.1	2.2	0	N.	N	N
13	0.2	0.4	1.3	7.6	36	49	5.7	2.0	0	0	0	0
14	0.2	0.4	1.2	5.5	26	23	5.0	1.9	0			
15	0.2	0.4	1.3	8.4	20	15	4.6	1.8	0			
16	0.2	0.4	1.4	6.3	17	11	4.3	1.7	0	F	F	F
17	0.2	0.4	1.2	4.4	14	9.8	4.1	1.6	0	L	L	L
18	0.2	0.5	1.2	3.4	13	8.4	3.7	1.5	0	O	O	O
19	0.2	0.6	1.3	2.8	16	7.6	3.4	1.5	0	W	W	W
20	0.2	0.6	1.3	2.5	11	7.1	3.1	1.3	0			
21	0.2	0.6	1.3	2.2	10	6.3	2.8	1.2	0			
22	0.2	0.7	1.2	2.2	9.5	6.1	2.5	1.2	0			
23	0.2	0.8	1.2	2.0	8.4	5.9	3.1	1.2	0			
24	0.1	0.9	1.9	2.5	7.8	5.7	6.8	1.2	0			
25	0.2	0.9	3.7	50	7.3	5.5	5.0	1.2	0			
26	0.3	0.9	2.8	55	7.1	5.2	4.4	1.1	0			
27	0.3	0.9	1.9	14	6.6	22	52	0.9	0			
28	0.3	0.9	1.7	7.6	6.3	162	82	0.9	0			
29	0.3	0.9	1.6	5.0	7.1	45	26	0.7	0			
30	0.2	0.9	1.5	4.1		30	15	0.5	0			
31	0.2		1.6	3.6		39		0.4				
Mean	0.2	0.5	1.4	7.6	70.4	17.4	12.7	2.6	0.0	0	0	0
Ac-Ft	11	32	84	467	4050	1068	757	159	3	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 6631

TABLE 133

DAILY MEAN DISCHARGE
MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	9	9	26	15	0.4			
2				0	198	9	20	12	0.3			
3				0	93	9	17	10	0.1			
4				0	28	9	14	9	0			
5				0	19	8	12	8	0			
6				0	17	8	11	7	0			
7				0	16	8	10	6	0			
8				0	15	9	10	5	0			
9				0	249	9	9	5	0			
10				0	493	9	8	4	0			
11				0	419	9	7	3	0			
12	N	N	N	0	180	8	7	3	0	N	N	N
13	0	0	0	0	54	8	6	3	0	0	0	0
14				0	30	20	6	2	0			
15				0	23	18	5	2	0			
16	F	F	F	0	19	13	5	2	0	F	F	F
17	L	L	L	0	17	11	4	2	0	L	L	L
18	O	O	O	0	15	10	4	2	0	O	O	O
19	W	W	W	0	15	10	4	1	0	W	W	W
20				0	15	9	3	1	0			
21				0	13	8	3	1	0			
22				0	12	8	3	1	0			
23				2	11	8	3	1	0			
24				7	11	7	3	1	0			
25				10	10	7	3	0.9	0			
26				35	10	6	7	0.8	0			
27				32	10	9	9	0.7	0			
28				17	9	105	50	0.7	0			
29				12	9	90	43	0.6	0			
30				10		32	21	0.6	0			
31				9		30		0.5	0			
Mean	0	0	0	4	70	17	11	3.6	0.02	0	0	0
Ac-Ft	0	0	0	266	4005	1018	661	220	2	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 6172

TABLE 134

DAILY MEAN DISCHARGE
OWENS CREEK BELOW OWENS RESERVOIR

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0	0.5	0.5	3	1.7	3	0.7				
2		0	0.5	0.5	9	1.7	2	0.5				
3		0	0.5	0.5	4	1.6	1.7	0.5				
4		0	0.5	0.8	2	1.5	1.6	0.5				
5		0	0.5	0.8	2	1.5	1.2	0.5				
6		0	0.5	0.8	3	1.5	1.2	0.5				
7		0	0.5	0.8	2	1.6	1.1	0.5				
8		0	0.5	0.8	8	1.8	0.9	0.5				
9		0	0.5	1.0	25	1.7	0.9	0.5				
10		0	0.5	1.5	74	1.5	0.8	0.5				
11		0	0.5	1.1	28	1.5	0.8	0.5				
12	N	0	0.5	1.2	7	1.5	0.7	0.5	N	N	N	N
13	O	0	0.5	1.0	5	1.7	0.6	0.5	O	O	O	O
14		0	0.5	1.3	4	1.7	0.6	0.5				
15		0	0.5	1.5	4	1.5	0.5	0.5				
16	F	0	0.5	1.3	3	1.3	0.5	0	F	F	F	F
17	L	0	0.5	1.2	3	1.2	0.5	0	L	L	L	L
18	O	0	0.5	1.2	3	1.1	0.4	0	O	O	O	O
19	W	0	0.5	1.1	4	1.0	0.4	0	W	W	W	W
20		0	0.5	1.1	3	1.0	0.4	0				
21		0	0.5	1.4	3	0.9	0.3	0				
22		0	0.5	1.5	2	0.8	0.3	0				
23		0	0.5	1.4	2	0.8	0.3	0				
24		0	0.5	1.5	2	1.0	0.3	0				
25		0	0.5	2	2	1.1	0.3	0				
26		0	0.5	3	1.9	1.0	0.5	0				
27		0	0.5	3	1.9	6	0.8	0				
28		0	0.5	2	1.8	16	4	0				
29		0	0.5	2	1.8	4	3	0				
30		0.5	0.5	1.5		3	1.3	0				
31			0.5	1.5		3		0				
Mean	0	0.01	0.5	1.4	7.4	2.2	1.0	0.2	0	0	0	0
Ac-Ft.	0	1.0	30.4	80.9	425	133	61	15	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 746

TABLE 135

DAILY MEAN DISCHARGE
BURNS CREEK AT HORNITOS

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	16	1.0	3.3	1.3				
2				0	29	0.9	2.9	1.1				
3				0	4.9	0.8	2.7	0.9				
4				0	3.3	0.7	2.3	0.8				
5				0	3.3	0.7	2.1	0.6				
6				0	3.6	0.7	2.0	0.6				
7				0	2.9	0.7	1.8	0.6				
8				0	58	0.7	1.7	0.4				
9				0	189	0.6	1.7	0.4				
10				0.2	275	0.5	1.5	0.3				
11				0.1	22	0.6	1.5	0.2				
12	N	N	N	0.1	10	0.6	1.4	0.2	N	N	N	N
13	O	O	O	0	6.5	0.8	1.3	0.2	O	O	O	O
14				0.1	5.2	0.7	1.0	0.1				
15				0.2	3.8	0.7	1.0	0.1				
16	F	F	F	0.1	3.6	0.7	1.0	0.1	F	F	F	F
17	L	L	L	0.1	3.1	0.7	1.0	0.1	L	L	L	L
18	O	O	O	0.1	6.8	0.7	1.0	0.1	O	O	O	O
19	W	W	W	0.1 E	6.2	0.7	0.9	0.1	W	W	W	W
20				0.1 E	2.9	0.8	0.9	0.1				
21				0.1 E	2.5	0.9	0.8	0.1				
22				0.1 E	2.3	0.8	0.8	0				
23				0.1 E	2.0	0.9	0.9	0				
24				0.1 E	1.7	1.0	1.0	0				
25				17 E	1.7	1.1	0.9	0				
26				8.4	1.4	1.3	1.2	0				
27				1.7	1.3	21	6.3	0				
28				1.0	1.1	24	6.8	0				
29				0.8	1.1	4.9	2.7	0				
30				0.7		4.6	1.8	0				
31				0.6		4.9		0				
Mean	0	0	0	1.0	23.1	2.6	1.9	0.3	0	0	0	0
Ac-Ft	0	0	0	63	1329	158	111	17	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 1678

TABLE 136

DAILY MEAN DISCHARGE
BURNS CREEK BELOW BURNS RESERVOIR

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	27	3	7	5				
2				0	18	3	6	3.5				
3				0	2	2	5	2.5				
4				0	1	2	4	2.0				
5				0	16	2	3.5	1.5				
6				0	8	2	3.5	1.5				
7				0	3	2	2.5	1.0				
8				0	23	2	2.5	1.0				
9				0	162	2	2	0.7				
10				0	599	2	2	0.2				
11				0	99	1	1.5	0				
12	N	N	N	0	35	2	1.5	0	N	N	N	N
13	O	O	O	0	19	2	1	0	O	O	O	O
14				0	14	2	1	0				
15				0	8	1	1	0				
16	F	F	F	0	6	1	0.5	0	F	F	F	F
17	L	L	L	0	5	1	0.5	0	L	L	L	L
18	O	O	O	0	14	1	0	0	O	O	O	O
19	W	W	W	0	45	1	0	0	W	W	W	W
20				0	12	1	0	0				
21				0	6	1	0	0				
22				0	5	1	0	0				
23				0	4	1	0	0				
24				0	4	1	0	0				
25				7.4	4	1	0	0				
26				6.5	3	1	0	0				
27				1.3	3	48	1	0				
28				0.4	3	83	6	0				
29				0.1	3	17	7	0				
30				0		8	6	0				
31				0		8		0				
Mean	0	0	0	0.5	40	6.6	2.2	0.6	0	0	0	0
Ac-Ft	0	0	0	31	2283	407	129	37	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 2887

TABLE 137

DAILY MEAN DISCHARGE
BEAR CREEK NEAR CATHAY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	131	2.5	16	5.2				
2				0	135	2.3	12	4.1				
3				0	22	2.1	8.7	3.3				
4				0	12	2.1	7.1	2.6				
5				0	10	2.1	5.7	2.3				
6				0	11	2.1	4.7	1.9				
7				0	8.3	1.9	4.1	1.6				
8				0	201	2.1	3.3	1.2				
9				0	558	1.9	2.8	1.2				
10				0	422	1.8	2.6	1.0				
11				0	81	1.7	2.2	0.8				
12	N	N	N	2.0	31	1.9	2.1	0.7	N	N	N	N
13	O	O	O	2.2	18	22	2.1	0.7	O	O	O	O
14				2.6	12	9.4	1.9	0.6				
15				5.5	9.0	6.2	1.9	0.6				
16	F	F	F	4.7	7.4	5.0	1.7	0.5	F	F	F	F
17	L	L	L	3.3	6.2	4.1	1.6	0.4	L	L	L	L
18	O	O	O	2.8	6.2	3.3	1.7	0.4	O	O	O	O
19	W	W	W	2.2	8.0	3.0	1.6	0.4	W	W	W	W
20				1.9	6.2	2.6	1.6	0.3				
21				1.8	5.2	2.2	1.5	0.3				
22				1.8	4.5	1.9	1.5	0.2				
23				1.9	4.1	1.9	1.8	0.2				
24				2.1	3.7	2.1	2.8	0.2				
25				45	3.3	2.3	2.8	0.1				
26				64	3.1	2.5	2.6	0				
27				15	3.0	64	33	0				
28				7.7	2.8	203	41	0				
29				5.5	2.6	36	12	0				
30				4.3		29	7.4	0				
31				3.7		31		0				
Mean	0	0	0	5.8	59.6	14.7	6.4	1.0	0	0	0	0
Ac-Ft.	0	0	0	357	3427	904	380	61	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 5129

TABLE 138

DAILY MEAN DISCHARGE
BEAR CREEK BELOW BEAR RESERVOIR

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.4	0.7	4	11	6	31	10				
2	0	0.4	0.7	4	240	6	22	7				
3	0	0.4	0.7	4	55	6	18	6				
4	0	0.4	0.8	4	27	6	11	5				
5	0	0.4	0.9	4	20	5	8	5				
6	0	0.4	1	4	18	5	7	4				
7	0	0.4	1	4	17	5	5	4				
8	0	0.4	1	4	51	5	5	3				
9	0	0.4	1	5	524	5	4	2				
10	0	0.4	1	6	767	5	4	2				
11	0	0.4	1	6	242	5	4	1				
12	0	0.4	2	9	65	5	3	1	N	N	N	N
13	0	0.3	2	9	37	6	3	1	O	O	O	O
14	0	0.3	2	9	27	22	3	0.9				
15	0.1	0.3	2	9	21	15	3	0.9				
16	0.1	0.3	2	10	17	12	3	0.8	F	F	F	F
17	0.1	0.3	2	10	15	10	3	0.7	L	L	L	L
18	0.2	0.2	2	11	14	9	3	0.7	O	O	O	O
19	0.2	0.2	2	10	19	8	3	0.6	W	W	W	W
20	0.2	0.2	3	9	16	7	3	0.5				
21	0.2	0.2	3	8	13	6	3	0.4				
22	0.2	0.2	3	7	12	6	3	0.3				
23	0.2	0.3	3	7	10	5	3	0.3				
24	0.2	0.3	3	8	9	5	3	0.2				
25	0.2	0.3	4	9	8	5	3	0.1				
26	0.3	0.3	3	100	8	5	3	0.1				
27	0.3	0.3	3	41	7	14	6	0				
28	0.3	0.4	4	21	7	286	56	0				
29	0.3	0.4	4	16	7	73	28	0				
30	0.3	0.4	4	12		36	15	0				
31	0.3		4	10		43		0				
Mean	0.1	0.3	2.2	12	79	21	9	1.9	0	0	0	0
Ac-Ft.	7.3	19.8	132.5	742	4530	1263	534	114	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 7343

TABLE 139

DAILY MEAN DISCHARGE
NEWMAN WASTEWAY NEAR NEWMAN

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.3	2.6	2.6	1.7	2.9	1.9	5.0	24	26	10	29	6.1
2	5.3	2.6	13	1.9	3.1	1.9	4.7	6.5	9.4	8.9	12	6.8
3	6.5	2.6	4.7	1.4	2.9	2.1	4.7	5.7	8.1	8.1	8.5	8.9
4	6.8	2.6	2.6	1.9	2.9	1.9	6.1	5.3	9.9	7.7	7.7	7.2
5	6.8	2.6	2.1	1.9	3.1	1.9	6.8	5.7	11	6.8	11	7.2
6	5.7	2.3	1.9	1.9	3.1	1.9	6.5	13	12	6.8	11	7.7
7	5.3	2.6	1.9	1.9	2.9	2.1	5.7	31	10	9.4	59	7.7
8	5.3	2.6	23	1.7	3.1	1.7	6.1	8.1	9.9	11	103	8.9
9	4.7	2.6	23	2.1	2.6	1.9	5.7	5.7	12	13	42	9.4
10	48	3.1	5.0	2.3	2.9	1.9	6.5	12	11	9.4	11	8.9
11	28	3.1	2.9	2.3	4.6	1.9	8.9	19	8.5	9.4	12	6.1
12	6.5	2.9	2.6	2.1	56	1.9	8.1	7.7	7.7	9.9	14	5.0
13	4.3	3.1	1.7	2.1	76	1.3	8.9	7.2	7.7	12	13	5.0
14	3.7	2.9	2.6	2.3	20	1.4	7.2	8.9	6.8	9.9	12	5.7
15	3.7	2.9	2.3	1.9	2.9	2.1	6.1	8.9	5.7	9.4	12	9.9
16	3.7	2.9	2.1	2.1	2.3	3.1	5.3	10	5.7	9.9	21	7.2
17	3.4	3.1	2.1	2.3	2.6	4.0	5.0	16	6.1	8.1	22	5.3
18	3.1	3.1	2.1	2.1	2.6	3.4	4.3	83	5.0	6.1	12	6.5
19	3.1	2.9	2.1	2.1	2.3	3.4	4.3	40	4.3	6.8	9.9	7.7
20	3.4	2.9	1.9	2.1	2.3	4.0	5.0	12	4.7	12	8.1	6.8
21	3.4	2.6	1.9	2.6	2.1	5.3	6.5	7.7	4.7	9.9	6.8	8.5
22	3.1	3.7	1.9	2.9	1.9	6.1	6.1	6.8	4.3	13	6.8	11
23	3.4	3.1	2.1	2.6	1.9	25	7.2	6.8	5.7	13	8.1	33
24	3.4	[illegible]	2.3	2.9	2.1	13	7.7	6.1	6.1	10	13	6.8
25	3.4	3.1	2.1	3.1	1.9	5.0	9.4	39	6.8	9.9	13	4.7
26	3.4	3.4	1.9	2.9	1.9	4.3	13	39	10	14	11	3.7
27	3.4	3.1	1.9	22	1.9	4.3	12	8.5	11	15	10	4.7
28	2.9	2.9	1.7	6.8	1.9	4.3	10	9.9	9.4	11	12	3.7
29	2.6	2.3	1.7	3.1	1.9	4.3	6.1	9.4	8.5	68	8.5	3.1
30	2.6	2.6	1.4	2.3		3.4	21	6.8	9.4	12	8.1	3.7
31	2.9		2.1	2.3		3.4		17		51	7.2	
Mean	6.[illegible]	[illegible]	4.0	3.0	7.5	4.0	7.3	15.7	8.6	13.3	17.2	7.6
Ac.-Ft.	[illegible]	171	14	18[illegible]	434	24[illegible]	436	96[illegible]	511	816	10[illegible]1	450

E — Estimated NR — No Record Total Discharge in Acre Feet 5909

TABLE 140

DAILY MEAN DISCHARGE
NORTH FORK MERCED RIVER NEAR COULTERVILLE

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	1.7	1.5	0.5	73	4.2	11	10	1.4	0.2	0.3	0.3
2	0.4	1.7	1.3	0.5	47	3.5	8.5	8.5	1.2	0.2	0.2	0.3
3	0.3	1.7	1.3	0.5	13	3.5	6.8	6.3	1.1	0.2	0.3	0.3
4	0.3	1.7	1.3	0.4	8.5	3.2	5.9	6.3	1.1	0.2	0.3	0.4
5	0.2	1.3	1.3	0.4	7.4	3.2	4.6	5.0	1.1	0.2	0.3	0.4
6	0.2	1.3	1.3	0.4	6.8	3.2	4.2	4.2	1.1	0.2	0.3	0.4
7	0.2	1.0	1.3	0.4	6.3	4.2	3.9	3.5	1.1	0.2	0.3	0.4
8	0.2	1.0	1.5	0.4	337	5.4	3.2	3.5	1.1	0.2	0.3	0.4
9	0.2	0.9	1.3	0.4	259	3.9	2.9	2.9	0.8	0.3	0.2	0.4
10	0.2	0.9	1.7	7.0	108	3.5	2.7	2.4	0.7	0.3	0.1	0.5
11	0.3	0.9	1.5	6.0	53	3.5	2.4	2.7	0.6	0.3	0.1	0.4
12	0.4	1.0	1.5	5.0	34	4.6	2.4	2.7	0.5	0.2	0.1	0.4
13	0.4	1.0	1.7	2.6	29	11	2.2	2.7	0.5	0.3	0.2	0.4
14	0.4	0.9	1.7	2.0	23	7.9	1.7	2.7	0.4	0.3	0.2	0.3
15	0.4	0.9	1.5	2.3	19	6.3	1.6	2.4	0.4	0.2	0.2	0.4
16	0.4	0.9	1.5	1.7	15	5.9	1.4	2.4	0.4	0.2	0.3	0.4
17	0.5	0.9	1.5	1.3	13	5.0	1.2	2.4	0.4	0.3	0.3	0.4
18	0.5	0.9	1.3	1.0	13	4.6	1.1	2.4	0.4	0.3	0.3	0.4
19	0.5	0.9	1.0	1.0	11	4.2	1.1	2.4	0.3	0.3	0.3	0.4
20	0.7	0.7	1.0	0.9	8.5	3.5	0.8	2.4	0.3	0.3	0.3	0.4
21	1.0	0.7	0.9	1.0	7.9	3.2	0.8	2.7	0.3	0.3	0.3	0.4
22	1.0	0.7	0.9	1.7	6.8	2.9	0.7	2.7	0.3	0.3	0.3	0.4
23	1.0	0.7	0.9	1.5	6.3	2.9	0.9	2.7	0.2	0.3	0.3	0.4
24	0.9	1.3	2.0	2.0	5.4	2.9	2.0	2.9	0.2	0.3	0.3	0.3
25	0.9	1.7	4.5	9.2	5.4	2.7	1.4	2.4	0.2	0.3	0.3	0.3
26	0.9	1.5	2.0	17	4.6	2.7	1.9	2.4	0.2	0.3	0.3	0.3
27	0.9	1.5	1.3	6.3	4.6	28	72	2.2	0.2	0.3	0.3	0.2
28	0.9	1.5	1.0	4.2	4.2	70	45	2.2	0.2	0.3	0.3	0.1
29	1.0	1.5	1.0	2.7	4.2	29	21	2.0	0.2	0.3	0.3	0.1
30	1.0	1.5	0.9	2.4		20	14	1.6	0.2	0.4	0.3	0.1
31	1.5		0.9	2.2		16		1.4		0.4	0.3	
Mean	0.6	1.2	1.4	2.7	39.1	8.9	7.6	3.3	0.6	0.3	0.3	0.3
Ac.-Ft.	36	69	88	168	2249	545	455	204	34	17	16	20

E – Estimated NR – No Record

Total Discharge in Acre-Feet 3901

TABLE 141

DAILY MEAN DISCHARGE
MAXWELL CREEK AT COULTERVILLE

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.1	0.1	0.4	44	1.0	5.8	5.2	0.2			
2	0.2	0.1	0.1	0.4	19	0.9	4.4	4.4	0.2			
3	0.2	0.1	0.1	0.4	4.6	0.9	3.6	3.9	0.2			
4	0.2	0.1	0.1	0.4	3.2	0.9	3.2	4.1	0.1			
5	0.2	0.1	0.1	0.4	3.0	1.0	2.8	3.4	0.2			
6	0.2	0.1	0.2	0.4	3.0	0.9	2.4	2.8	0.1			
7	0.2	0.1	0.2	0.4	2.6	1.3	2.2	2.6	0.1			
8	0.2	0.1	0.2	0.4	248	1.9	1.9	2.4	0.1			
9	0.1	0.1	0.2	0.5	342	1.5	1.6	2.1	0.1			
10	0.2	0.1	0.2	3.9	144	1.3	1.6	1.6	0.1			
11	0.1	0.1	0.2	3.6	40	1.4	1.6	1.4	0.1			
12	0.1	0.1	0.2	4.1	16	1.4	1.5	1.3	0.1	N	N	N
13	0.2	0.1	0.2	2.1	11	2.8	1.4	1.1	0.1	O	O	O
14	0.2	0.1	0.2	1.9	7.1	2.2	1.5	1.1	0			
15	0.1	0.1	0.2	2.8	5.2	2.1	1.4	1.0	0			
16	0.1	0.1	0.2	2.1	4.1	1.9	1.4	1.0	0	F	F	F
17	0.1	0.1	0.2	1.5	3.6	1.6	1.4	0.9	0	L	L	L
18	0.1	0.1	0.2	1.1	3.6	1.5	1.4	0.8	0	O	O	O
19	0.2	0.1	0.2	1.0	3.9	1.5	1.3	0.7	0	W	W	W
20	0.2	0.1	0.3	1.0	3.0	1.4	1.4	0.5	0			
21	0.1	0.1	0.3	1.0	2.6	1.4	1.3	0.5	0			
22	0.1	0.1	0.3	1.1	2.2	1.3	1.4	0.6	0			
23	0.1	0.1	0.3 E	1.1	1.8	1.3	1.8	0.6	0			
24	0.1	0.1	0.5 E	1.5	1.6	1.3	2.4	0.5	0			
25	0.1	0.1	0.9 E	27	1.4	1.1	1.9	0.5	0			
26	0.1	0.1	0.4 E	17	1.1	1.0	2.8	0.4	0			
27	0.1	0.1	0.4 E	4.9	1.0	45	47	0.4	0			
28	0.1	0.1	0.4 E	3.0	1.1	78	28	0.3	0			
29	0.1	0.1	0.4	2.2	1.1	14	11	0.3	0			
30	0.1	0.1	0.4	1.8		11	6.7	0.2	0			
31	0.1		0.4	1.5		8.9		0.2				
Mean	0.1	0.1	0.3	2.9	31.9	6.2	4.9	1.5	0.1	0	0	0
Ac.-Ft.	9	6	16	180	1834	384	294	93	3	0	0	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 2819

TABLE 142

DAILY MEAN DISCHARGE
MERCED RIVER BELOW SNELLING

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	11	12	14	24	33	22	34	75	77	76	18
2	2.2	12	12	14	42	32	22	34	56	75	70	35
3	2.6	12	13	13	20	36	22	31	70	75	75	38
4	2.6	13	13	14	15	38	36	28	67	76	84	32
5	2.6	13	13	9.2	20	40	38	25	71	81	84	33
6	2.6	15	13	12	26	34	34	27	74	76	[illegible]	34
7	2.4	17	14	11	21	29	31	31	75	75	76	35
8	2.2	17	14	9.2	33	27	30	26	77	76	73	32
9	2.2	17	14	9.9	89	25	30	18	77	79	80	29
10	2.1	17	15	19	195	22	18	22	67	74	84	31
11	2.4	16	15	14	48	22	11	23	63	68	85	13
12	3.1	14	15	15	25	23	11	30	51	63	85	4.3
13	13	15	15	13	27	23	11	30	56	66	82	2.9
14	15	15	16	14	38	22	14	22	63	69	88	2.4
15	17	15	14	16	38	20	51	15	56	71	92	1.9
16	15	16	13	16	34	21	61	18	53	73	95	1.7
17	9.9	16	13	16	35	22	57	21	58	75	92	1.9
18	6.0	16	13	16	31	34	55	46	66	79	88	2.2
19	3.7	16	13	17	46	57	50	49	68	76	64	1.9
20	2.6	17	13	29	36	44	47	50	70	67	34	1.9
21	2.1	17	13	19	34	36	46	55	75	59	24	1.6
22	1.8	16	14	16	34	37	38	56	81	63	21	1.6
23	1.8	16	14	15	45	38	45	64	105	77	28	1.7
24	2.6	17	17	17	51	38	38	66	102	80	29	1.7
25	3.7	17	21	22	31	35	37	63	105	69	24	2.9
26	3.5	16	17	21	12	36	52	67	109	61	22	3.1
27	5.2	14	17	17	29	38	85	70	102	63	21	2.4
28	7.2	13	17	15	33	35	52	76	102	64	22	1.9
29	4.3	13	16	15	33	20	50	75	108	77	22	2.2
30	6.3	13	14	14		18	39	75	95	79	23	2.1
31	7.2		14	15		20		73		77	23	
Mean	5.1	15.1	14.4	15.4	39.5	30.8	37.8	42.6	76.6	72.3	59.6	1[illegible].4
Ac.-Ft.	311	897	887	947	2271	1894	2247	2618	4556	4443	3666	738

E – Estimated NR – No Record Total Discharge in Acre-Feet 25480

TABLE 143

DAILY MEAN DISCHARGE
MERCED RIVER AT CRESSEY

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	60	50	68	81	90	99	87	136	87	72	100	49
2	59	51	65	79	102	97	84	119	83	74	106	47
3	57	51	64	79	118	94	86	110	68	70	93	47
4	53	50	63	80	116	91	86	106	60	64	77	47
5	57	50	64	79	111	91	80	97	58	69	74	43
6	65	53	69	77	111	93	91	93	63	72	87	40
7	60	53	68	74	113	96	91	88	74	76	83	40
8	58	55	67	74	116	93	88	86	77	77	94	40
9	59	55	67	77	281	88	88	81	68	70	91	38
10	58	57	69	88	869	84	93	76	62	83	90	46
11	58	58	70	96	629	87	93	76	68	88	96	51
12	58	62	68	100	262	87	81	76	62	77	99	49
13	54	59	68	93	179	84	74	70	62	58	102	42
14	54	60	69	90	149	81	69	70	58	60	106	36
15	53	60	72	[illegible]	141	81	67	74	60	69	102	38
16	57	60	74	91	136	81	68	70	73	74	103	40
17	59	60	77	88	131	81	91	63	65	69	108	39
18	59	62	79	87	124	79	93	65 E	62	67	102	40
19	57	63	76	87	121	76	91	65 E	54	64	99	35
20	5[illegible]	6[illegible]	77	88	139	93	84	65 E	60	65	81	30
21	54	6[illegible]	76	98	136	103	79	68	[illegible]	69	62	34
22	54	59	76	96	123	93	81	74	[illegible]	72	53	34
23	5[illegible]	6[illegible]	74	94	113	79	74	74	65	65	47	35
24	54	62	77	91	113	79	69	84	70	72	40	34
25	53	[illegible]	81	96	114	80	67	90	84	79	39	32
26	53	60	94	99	116	83	79	93	88	64	42	30
27	52	60	83	100	99	83	106	94	88	64	44	30
28	52	59	81	96	88	96	249	86	[illegible]	83	49	28
29	51	69	80	90	94	110	205	94	79	74	50	26
30	50	72	80	97		102	147	99	67	74	51	29
31	49		80	86		91		[illegible]		77	50	
Mean	[illegible]	[illegible]	[illegible]	7[illegible]	174	[illegible]	94.6	[illegible]	69.1	71.6	7[illegible].1	[illegible]
Ac.-Ft	[illegible]	[illegible]	[illegible]	[illegible]	9[illegible]	[illegible]	[illegible]	5123	411[illegible]	4405	4[illegible]00	[illegible]74

E – Estimated NR – No Record Total Discharge in Acre Feet 5[illegible]670

TABLE 144

DAILY MEAN DISCHARGE
ORESTIMBA CREEK NEAR CROWS LANDING

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0		0		0	137	3.9	42	9.6	9.0	17	7.4
2	0.3		0		0	104	4.1	16	8.0	7.4	11	7.4
3	0.2		0		0	21	2.1	4.6	11	7.4	9.3	5.3
4	0.1		0		0	0.2	3.1	7.7	11	7.1	8.3	4.3
5	1.2		0		0	0	3.5	3.9	6.6	6.8	9.3	3.1
6	1.2		0		0	1.0	1.7	3.3	4.1	7.3	9.9	3.9
7	1.4		0		0	1.7	3.3	1.4	4.4	8.0	7.7	4.1
8	0.7		0		0	1.5	4.1	1.7	8.9	6.8	5.0	3.7
9	0.4		0		31	1.5	5.0	7.8	5.8	5.5	3.5	1.8
10	7.8		0		152	0.4	5.3	1.3	8.9	7.4	4.1	2.4
11	10		0		94	35	4.1	2.3	4.3	8.3	8.0	3.1
12	2.1		0		16	2.1	3.9	2.9	2.7	5.5	11	4.1
13	0.8	N	0	N	0.9	0.1	4.1	3.1	8.1	5.0	5.8	5.0
14	0.7	O	0	O	0	0	5.5	2.2	5.0	5.8	4.8	4.8
15	0.9		0		0	0	10	0.9	5.0	4.3	3.5	5.8
16	0.3	F	0.2	F	0	1.0	11	1.2	6.3	4.6	3.9	4.8
17	0.8	L	0.3	L	0	3.1	7.4	3.5	6.0	3.9	5.3	3.9
18	0.9	O	0.8	O	0	1.5	4.1	6.2	5.5	5.5	6.8	3.1
19	0.8	W	1.1	W	0	0.3	5.0	8.2	4.3	6.6	6.0	3.5
20	0.8		0.1		0	2.4	2.1	14	7.9	11	7.1	3.7
21	8.7		0		0	1.7	2.2	8.3	7.7	8.6	5.8	3.8
22	2.4		0		0	1.2	2.9	4.8	7.4	10	3.7	1.8
23	0.2		0		0	1.8	2.1	5.5	6.0	8.3	4.3	2.4
24	0		0		0	3.9	4.2	11	6.8	8.3	2.7	2.7
25	0		0		0	4.3	25	34	12	8.2	2.7	2.7
26	0		0		0	5.8	BW	4.7	7.1	5.5	4.8	5.8
27	0		0		0	4.6	36 E	6.6	6.3	4.8	14	4.5
28	0		0		0	6.5	BW	5.8	6.8	5.8	28	1.1
29	0		0		73	5.3	BW	4.8	6.8	4.6	14	0.7
30	0		0			3.1	BW	3.9	18	14	6.8	0.2
31	0		0			3.1		6.4		9.3	6.0	
Mean	1.4	0	0.1	0	12.7	11.5		7.4	7.3	7.1	7.8	3.7
Ac-Ft.	85	0	5	0	72	704		454	433	436	477	[illegible]

E – Estimated NR – No Record

Total Discharge in Acre-Feet

BW Data insufficient to compute flow during periods of backwater.

TABLE 145

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER AT GRAYSON

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	370	275	295	325	520	635	455	600	390	210	210	180
2	350	282	295	325	555	635	385	575	360	210	225	180
3	365	280	290	330	590	585	360	500	315	195	200	190
4	385	280	295	335	600	530	375	405	290	205	160	210
5	380	285	310	335	655	485	345	365	275	200	140	225
6	390	310	310	335	725	470	315	340	270	195	165	215
7	390	300	310	350	725	465	315	325	250	175	200	215
8	395	290	315	360	720	455	325	330	235	145	205	210
9	380	285	335	380	760	425	310	360	225	130	230	190
10	345	300	350	455	875	380	315	340	230	145	250	185
11	365	300	340	520	1120	365	350	260	225	190	240	195
12	350	310	330	560	1450	345	355	315	195	200	225	230
13	300	310	310	570	1680	320	325	310	190	160	195	235
14	310	315	310	570	1660	285	280	310	180	145	175	210
15	310	315	315	580	1420	240	275	335	205	120	175	200
16	295	325	335	590	1175	200	290	355	205	140	145	190
17	300	325	335	600	1020	240	325	385	185	190	140	195
18	290	335	350	580	925	240	320	345	190	205	130	220
19	295	345	350	570	855	230	275	390	205	175	160	240
20	295	345	355	565	800	235	250	375	215	145	180	195
21	285	340	340	555	760	210	235	345	245	145	205	210
22	295	320	330	555	730	215	225	375	205	125	235	210
23	315	315	325	550	680	200	225	405	230	110	220	230
24	310	320	345	550	655	170	265	370	235	140	205	220
25	290	325	345	555	625	155	280	385	200	160	200	195
26	280	315	335	545	605	190	315	385	235	185	200	210
27	295	315	390	540	600	240	450	360	230	160	185	250
28	280	305	325	540	590	310	320	320	220	140	190	225
29	270	300	340	520	580	350	295	330	220	170	220	220
30	270	295	335	505		400	300	385	210	195	190	220
31	265		340	505		485		385		175	180	
Mean	323	309	329	490	850	345	315	375	235	165	195	210
Ac-Ft	19864	18371	[illegible]	[illegible]060	48904	[illegible]1201	18754	22939	1401[illegible]	1[illegible]4	11661	12492

E – Estimated NR – No Record

Total Discharge in Acre-Feet [illegible]041

TABLE 146

DAILY MEAN DISCHARGE
DEL PUERTO CREEK NEAR GRAYSON

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.8	0	0.8			NR	13	4.0	NR	18	24	14
2	2.5	1.2	0.4			NR	12	2.8	NR	20	18	14
3	1.4	1.7	1.3			0.9	12	5.9	NR	21	20	15
4	1.0	1.6	1.4			1.0	9.2	6.6	NR	18	26	12
5	0.1	1.3	0			0.2	10	4.7	NR	16	23	11
6	0	0.2	0.6			0.7	9.2	5.0	NR	16	21	16
7	0	0.6	0.9			0	12	5.2	NR	18	18	16
8	0.8	0.8	0.9			0	14	5.0	NR	20	24	14
9	1.2	1.1	1.7			0.9	16	8.7	NR	19	20	15
10	1.3	0.2	0.7			3.8	19	7.7	NR	25	17	14
11	1.3	0	0 E			2.8	19	5.5	17	24	15	NR
12	0.3	0	NR	N	N	2.7	17	6.5	14	16	19	NR
13	0.4	0.3	NR	O	O	5.1	15	10	14	19	19	NR
14	0.1	1.3	NR			5.5	14	11	13	19	14	NR
15	0.6	1.3	NR			6.5	15	9.0	12	20	17	NR
16	0.8	0.2	NR	R	R	6.7	17	7.9	12	20	22	5.7 E
17	0.7	0.3	NR	E	E	5.9	18	NR	14	17	18	7.9
18	1.5	0.3	NR	C	C	8.2	14	NR	14	17	16	14
19	1.8	0.4	NR	O	O	7.4	7.4	NR	18	16	13	5.3
20	2.1	0.4	NR	R	R	12	10	NR	11	19	11	10
				D	D							
21	0.8	0.2	NR			14	8.7	NR	13	20	11	10
22	0.2	0	NR			14	12	NR	17	20	18	12
23	0	0.4	NR			11	11	NR	20	20	17	5.6
24	0	1.5	NR			10	8.4	NR	19	21	15	3.8
25	0	1.8	NR			13	11	NR	19	18	20	7.4
26	0	1.2	NR			12	16	NR	20	17	15	8.2
27	0	0	NR			13	14	10 E	20	25	17	11
28	0	0	NR			7.7	3.6	NR	19	25	13	7.2
29	0	0	NR			9.5	4.7	NR	17	25	15	9.3
30	0	0	NR			9.5	6.7	NR	13	17	16	4.3
31	0		NR			10		NR		23	15	
Mean	0.8	0.6					12.3			19.6	17.6	
Ac-Ft.	47	36					732			1208	1085	

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 147

DAILY MEAN DISCHARGE
WESTLEY WASTEWAY NEAR GRAYSON

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.3	0.7	0			NR	7.4	4.8	5.6	14	20 E	10
2	2.3	0.2	0.3			NR	7.9	4.4	7.9	17	20 E	11
3	2.3	1.1	0.6			3.7	8.3E	6.9	11	18	20 E	9.3
4	1.7	0.6	0.6			4.8	8.3E	6.5	11	20	20 E	9.3
5	0.6	0.1	0.9			4.4	8.3E	4.8	11	18	20 E	9.3
6	0.9	0	0.9			2.3	8.3E	2.9	13	19	21	11
7	2.3	0	0.9			3.3	8.3E	2.9	14	20	20	8.8
8	0.6	0	0.6E			4.8	8.3E	2.0	14	22	19 E	7.9
9	0.9	0	0.6E			4.4	8.3E	1.7	13 E	20	19 E	11
10	0.9	0	0.6E			4.0	8.3E	2.6	16	21	18	10
11	0.9	0	0.5E			6.5	8.3E	6.1	20	17	15	8.8
12	0.9	0	NR	N	N	7.4	8.3E	6.5	21	17	14	8.8
13	0.6	0	NR	O	O	6.1	8.3E	8.8	22	14	16	9.8
14	0.1	0	NR			6.1	7.9E	8.8	23	12	15	12
15	0	0	NR			6.5	9.3	12	22	17	15	12
				R	R							
16	0.1	0	NR	E	E	7.9	8.8	11	19	18	16	11
17	0.9	0	NR	C	C	8.3	9.3	11	17	17	16	12
18	0.6	0	NR	O	O	5.2	7.9	9.8	19	20	14	10
19	0	0	NR	R	R	4.0	8.3	8.8	16	23	11	6.5
20	0.3	0	NR	D	D	4.0	6.5	7.4	14	24	16	7.4
21	1.1	0	NR			3.7	6.5	5.6	16	23	15	6.5
22	0.2	0	NR			6.1	9.8	9.8	16 E	20	12	6.9
23	0	0	NR			6.9	10	8.3	16 E	22	14	6.5
24	0	0	NR			7.9	11	8.8	16 E	19	16	4.8
25	0.1	0	NR			8.3	11	9.3	16	16	16	4.4
26	0.4	0	NR			5.2	8.8	8.3	15	19	11	4.8
27	0.6	0	NR			5.6	8.3	6.1	16	20	7.9	4.4
28	1.1	0	NR			5.6	4.8	6.1	16	21 E	10	5.2
29	0.6	0	NR			7.4	4.8	6.9	14	21 E	11	5.2
30	0.1	0.1	NR			8.8	2.9	6.1	16	20 E	10	4.4
31	0.3		NR			7.4		6.1		20 E	10	
Mean	0.8	0.1					8.1	6.8	15.6	19.0	15.4	8.3
Ac.-Ft.	47	6					481	419	925	1168	948	494

E - Estimated NR - No Record

Total Discharge in Acre-Feet

TABLE 148

DAILY MEAN DISCHARGE
TUOLUMNE RIVER AT LA GRANGE BRIDGE

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	257	446	346	663	345	15	6.1	13	4.5	1.0	4.1
2	9.1	403	519	407	413	365	14	5.5	18	5.1	47	3.2
3	15	480	488	423	440	378	14	4.5	5.5	3.6	53	2.5
4	9.1	467	482	841	490	309	24	6.1	4.5	3.2	41	2.5
5	7.8	450	450	994	470	264	14	6.1	4.1	3.2	25	2.5
6	58	449	384	1040	334	148	13	6.6	3.6	3.6	9.8	2.8
7	26	444	444	913	268	281	12	7.8	4.1	4.1	3.6	13
8	33	271	495	949	383	283	13	7.8	4.1	4.1	3.2	13
9	33	400	489	710	467	268	13	7.2	3.6	4.1	14	7.8
10	43	473	464	446	484	24	13	10	4.5	3.6	6.1	5.5
11	33	449	484	923	441	17	13	11	6.1	3.2	3.6	5.0
12	298	470	756	687	307	16	13	5.5	6.6	3.6	2.5	28
13	329	477	421	716	259	16	13	4.5	4.1	3.6	1.8	16
14	333	457	901	998	201	16	12	5.5	4.5	4.1	9.8	5.5
15	335	338	757	865	326	15	11	5.0	4.5	4.1	2.1	4.5
16	325	483	692	554	291	14	11	1.8	4.5	4.1	2.8	3.6
17	332	428	840	322	339	14	11	2.1	4.5	3.6	50	3.6
18	127	456	701	705	376	14	11	2.5	4.5	3.6	22	2.8
19	327	463	535	524	410	14	6.1	3.2	4.1	15	38	2.5
20	341	423	402	489	190	14	4.5	3.6	3.6	5.5	12	2.5
21	366	467	678	792	179	13	9.8	3.6	4.5	4.1	6.6	2.5
22	454	347	693	430	207	13	13	3.2	4.5	4.1	3.6	2.8
23	446	399	782	311	211	14	14	3.6	4.5	4.5	2.1	2.5
24	424	457	459	249	346	14	7.8	4.1	4.5	4.1	0.8	3.7
25	265	448	194	371	370	14	8.5	3.6	4.1	3.6	4.7	9.1
26	391	293	291	346	413	14	5.0	4.1	3.6	4.1	9.1	3.6
27	443	376	279	362	289	15	9.8	4.1	3.6	2.8	4.1	6.6
28	438	447	498	339	211	15	8.5	4.1	4.1	1.5	3.6	2.8
29	459	320	537	349	337	14	6.6	3.6	4.1	2.1	3.6	2.1
30	447	406	651	266		14	6.6	3.6	4.5	1.5	9.3	34
31	444		533	232		15		4.1		0.6	9.1	
Mean	245	417	540	577	349	95.8	11.3	5.0	5.1	3.9	13.1	6.7
Ac-Ft.	15080	24790	33210	35500	20080	5891	675	306	305	241	803	398

E — Estimated NR — No Record

Total Discharge in Acre-Feet 137300

TABLE 149

DAILY MEAN DISCHARGE
TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37	322	465	489	481	393	56	51	30	28	28	26
2	37	337	518	379	580	393	56	49	30	30	29	25
3	37	458	503	455	433	445	58	47	32	32	32	26
4	39	485	496	623	526	370	56	47	32	30	60	30
5	39	467	480	911	515	323	66	42	30	29	56	30
6	36	453	449	1000	423	246	60	37	30	29	49	30
7	49	440	458	898	302	259	58	41	29	28	39	28
8	51	339	523	954	379	346	58	42	30	26	33	28
9	47	340	539	815	541	307	56	44	30	26	28	29
10	49	451	511	625	570	219	52	41	33	25	28	34
11	58	466	520	689	500	78	54	36	32	26	28	34
12	128	444	564	851	394	66	54	37	33	30	32	30
13	327	479	645	709	326	64	52	42	29	26	32	28
14	346	452	615	882	281	60	52	41	29	24	29	33
15	346	373	874	914	322	60	52	37	28	24	28	32
16	344	427	800	772	328	58	47	37	29	25	26	30
17	331	472	736	380	375	56	47	37	29	24	26	32
18	288	455	827	522	378	56	49	37	29	25	32	33
19	174	451	642	727	483	54	49	33	29	25	41	30
20	314	467	508	506	300	52	51	32	28	25	36	32
21	351	471	491	659	231	52	47	32	29	25	34	29
22	450	386	727	654	221	51	47	32	32	25	30	30
23	445	393	756	354	253	52	51	32	30	28	28	29
24	406	466	720	317	359	52	54	34	28	30	26	29
25	313	466	428	364	392	51	51	37	28	29	26	32
26	351	401	284	398	475	49	45	37	30	28	28	32
27	445	303	355	463	345	52	64	37	29	25	28	33
28	449	454	399	384	278	62	66	37	29	26	29	30
29	451	378	602	407	336	58	60	37	29	25	29	32
30	449	399	621	318		56	52	37	28	25	29	30
31	443		639	284		58		33		25	28	
Mean	246	423	571	603	391	145	54.0	38.5	29.8	26.7	32.5	30.2
Ac-Ft	15130	25180	35100	37100	22470	8922	3213	2370	1771	1642	1997	1797

E — Estimated NR — No Record

Total Discharge in Acre-Feet 156700

TABLE 151
DAILY MEAN DISCHARGE
DRY CREEK NEAR MODESTO

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	20	20	14	33	18	36	22	49	36	44	34
2	21	21	19	14	69	18	36	18	44	40	42	34
3	25	21	19	16	67	17	28	16	41	39	38	31
4	30	25	19	17	73	17	23	13	41	48	38	29
5	29	25	17	19	84	17	21	14	51	37	43	37
6	30	24	19	25	85	17	21	29	54	35	36	28
7	27	23	20	26	61	16	26	28	46	41	31	32
8	25	23	20	28	68	15	31	38	53	36	39	27
9	40	21	19	30	499	15	31	53	56	30	35	30
10	51	20	19	30	1040	15	41	46	54	34	28	37
11	49	21	19	29	833	14	48	39	57	43	21	37
12	51	23	19	39	220	12	62	42	50	43	40	45
13	62	23	22	32	124	13	63	45	56	32	36	40
14	58	27	18	29	90	14	56	65	50	25	31	33
15	60	29	17	42	71	15	70	81	42	26	22	26
16	69	28	18	50	56	16	56	78	42	30	29	34
17	69	23	17	33	42	15	56	69	37	30	29	31
18	67	22	17	24	34	15	55	76	44	31	26	28
19	65	22	17	19	28	17	47	71	44	41	37	35
20	69	21	17	14	26	23	49	67	42	38	40	33
21	66	20	15	12	25	22	43	63	45	34	34	29
22	45	19	16	13	25	29	38	69	38	31	31	23
23	39	20	19	14	26	33	40	73	37	33	23	26
24	38	19	18	18	24	42	72	72	32	29	21	42
25	33	22	17	20	22	42	91	73	36	31	28	53
26	29	21	17	34	21	48	60	66	36	29	28	56
27	26	19	15	38	20	48	102	62	40	25	25	39
28	23	19	17	42	19	91	135	56	37	34	25	42
29	25	20	15	47	19	65	77	52	37	41	25	59
30	25	20	14	37		39	34	49	38	36	36	66
31	22		14	32		38		49		37	41	
Mean	41.6	22.0	17.7	27.0	131	26.3	51.6	51.4	44.3	34.7	32.3	36.5
Acr-Ft.	2559	1311	1089	1660	7545	1619	3070	3162	2636	2132	1987	2174

E — Estimated NR — No Record

Total Discharge in Acre-Feet 30940

TABLE 150
DAILY MEAN DISCHARGE
TUOLUMNE RIVER AT HICKMAN BRIDGE

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	113	449	503	570	400	441	119	107	89	84	84	84
2	119	355	575	371	764	448	119	107	85	84	85	82
3	117	530	555	507	444	490	117	107	85	84	84	79
4	119	558	543	565	579	427	113	105	87	85	94	80
5	121	540	527	913	566	426	117	101	87	85	103	84
6	121	527	7	1010	525	325	119	96	89	84	101	85
7	119	517	453	984	377	272	115	98	87	84	94	82
8	135	469	552	939	391	380	115	98	84	82	89	82
9	129	357	573	919	590	352	113	99	82	80	84	80
10	142	528	546	672	654	329	111	99	82	79	85	85
11	151	548	550	570	579	160	111	96	84	80	85	85
12	137	524	568	1000	490	144	109	92	85	84	87	84
13	351	560	754	724	400	135	109	96	85	84	89	84
14	402	531	554	792	360	133	107	99	82	82	89	82
15	410	495	932	1020	349	133	107	99	80	80	87	82
16	408	462	827	866	429	129	103	99	80	84	85	82
17	372	547	744	450	407	127	101	96	80	84	84	82
18	402	525	881	456	443	127	101	96	82	84	84	82
19	232	522	677	841	542	127	101	96	82	84	92	82
20	401	530	569	498	419	123	103	94	82	82	87	85
21	416	528	465	619	299	123	99	92	84	80	89	84
22	515	496	775	806	293	123	99	90	82	80	84	85
23	515	407	741	393	312	121	103	90	84	82	82	84
24	498	494	822	375	357	1[illegible]	105	92	84	84	82	85
25	429	532	452	369	443	121	105	94	82	85	82	87
26	361	517	317	445	517	117	101	94	84	85	84	92
27	505	323	381	440	443	119	117	90	85	84	85	90
28	515	509	382	432	353	127	119	94	84	84	87	94
29	519	486	629	439	333	123	115	92	84	84	87	96
30	522	404	639	408		121	111	94	82	84	87	125
31	517		685	34[illegible]		119		92		85	87	
Mean	317	492	603	637	450	212	109	96.6	83.8	83.1	87.4	85.8
Acr-Ft	19460	29300	37090	39140	25900	13020	6514	5939	4987	5109	5371	5107

E — Estimated NR — No Record

Total Discharge in Acre-Feet 19[illegible]00

TABLE 152

DAILY MEAN DISCHARGE
TUOLUMNE RIVER AT TUOLUMNE CITY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	265	590	525	770	480	485	270	275	230	235	225	235
2	265	480	600	655	595	545	270	260	220	230	225	235
3	265	480	655	550	755	555	270	255	225	235	230	230
4	265	590	640	595	610	585	265	250	230	235	215	230
5	260	630	625	735	730	535	250	245	235	230	235	225
6	260	625	610	1060	735	510	245	250	245	220	230	220
7	270	620	590	1205	665	450	250	245	235	225	240	220
8	260	610	570	1125	560	415	225	240	240	225	225	230
9	275	345	635	1155	665	485	235	245	235	215	215	230
10	290	480	655	1045	1560	470	250	250	230	215	200	240
11	295	590	635	790	2040	435	265	240	225	215	190	245
12	300	610	635	885	1180	335	265	245	235	235	190	240
13	285	610	730	1015	790	300	305	240	235	225	205	240
14	425	635	740	910	645	285	275	240	225	215	220	230
15	500	620	765	1095	550	275	270	260	225	210	205	235
16	535	570	965	1150	540	270	275	265	215	200	205	235
17	530	570	905	910	550	260	265	270	215	205	205	235
18	515	630	925	630	560	260	265	260	195	205	215	240
19	505	625	940	690	580	250	270	255	220	205	215	235
20	420	620	790	840	645	265	265	250	220	215	210	245
21	510	620	660	690	520	265	270	245	215	210	230	230
22	530	620	660	830	445	260	270	255	215	205	215	235
23	595	570	605	810	420	255	270	255	210	215	200	235
24	610	530	908	560	440	255	265	255	215	220	205	245
25	600	600	825	515	495	265	305	270	215	215	210	260
26	515	615	565	520	550	270	295	255	235	215	225	255
27	470	575	465	555	620	275	315	240	235	205	215	250
28	570	475	485	555	545	280	345	240	225	210	225	245
29	595	570	535	545	480	305	340	245	225	220	215	245
30	610	550	685	550		280	335	245	225	215	205	255
31	605		745	510		275		235		225	220	
Mean	426	575	686	789	688	353	275	249	225	218	215	238
Ac-Ft	26172	34225	42194	48496	39570	21729	16383	15431	13388	13388	13220	14142

E — Estimated NR — No Record Total Discharge in Acre-Feet 298339

TABLE 153

DAILY MEAN DISCHARGE
BURKHARDT DRAIN NEAR GRAYSON

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	4.9	2.2			5.3 E	14	17	19	29	34	22 E
2	11	5.8	2.4			5.1	18	16	20	33	34	20 E
3	10	6.1	2.9			6.0	23	21	19	32	29	18 E
4	8.9	8.2	4.4			8.4	17	16	24	34	36	16 E
5	8.9	8.9	4.9			10	15	19	29	33	42	15 E
6	9.4	8.9	4.8			15	20	21	33	34	42	13 E
7	8.2	11	4.3			15	23	20	35	43	46	12
8	11	10	4.4			14	28	28	33	39	46	14
9	12	6.1	4.9			18	28	30	37	36	41	16
10	9.4	6.3	6.4			18	33	35	37	30	42	17
11	8.9	6.3	6.4 E			17	34	29	36	36	45	14
12	9.7	5.4	NR	N	N	14	32	28	35	32	44	12
13	9.9	5.2	NR	O	O	12	32	29	33	38	39	12
14	6.3	5.1	NR			15	33	30	33	39	32	13
15	8.5	5.3 E	NR	R	R	19	35	25	33	40	32	17
				E	E							
16	8.9	5.1 E	NR	C	C	19	38	20	30	37	32	16
17	9.9	4.9 E	NR	O	O	19	37	18	30	36	29	10
18	9.2	6.0 E	NR	R	R	19	37	19	33	35	32	12
19	10 E	7.0 E	NR	D	D	20	37	22	32	31	26	12
20	10 E	8.0 E	NR			20	38	15	30	30	30	13
21	10 E	8.0 E	NR			19	40	12	32	39	30	14
22	10 E	7.6 E	NR			18	46	17	33	43	32	15
23	10 E	7.0 E	NR			14	46	22	34	45	30	21
24	10 E	6.0 E	NR			13	42	22	38	43	36	21
25	10 E	6.2 E	NR			12	37	19	34	39	36	20
26	10 E	5.6 E	NR			16	32	18	35	35	35	19
27	10 E	5.1	NR			17	29	20	30	40	32 E	16
28	10 E	4.0	NR			16	18	20	24	41	30 E	12
29	10 E	0.3	NR			1[illegible]	17	24	20	41	28 E	12
30	10 E	1.9	NR			10	18	24	27	36	26 E	12
31	7.2		NR			11		22		35	24 E	
Mean	9.8	6.2				14.3	29.9	21.9	30.6	36.6	34.6	15.2
Ac-Ft	606	369				882	1779	1345	1821	2249	2126	904

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

TABLE 154

DAILY MEAN DISCHARGE
SAN JOAQUIN RIVER AT HETCH HETCHY AQUEDUCT CROSSING

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	665	845	810	1150	1070	1100	570	830	415	290	300	300
2	615	830	880	1090	1140	1170	490	825	400	285	330	300
3	605	725	925	970	1410	1130	465	720	350	285	305	300
4	635	805	940	1010	1280	1070	470	600	340	335	315	325
5	620	865	940	1050	1410	1005	430	530	325	330	285	355
6	615	890	935	1305	1500	970	410	495	330	280	315	345
7	635	890	880	1455	1495	915	400	460	305	260	325	320
8	645	880	875	1480	1370	830	405	440	290	235	325	340
9	655	860	955	1485	1380	845	390	460	290	215	325	330
10	660	775	1000	1525	2055	770	415	455	305	210	310	335
11	660	850	980	1440	2735	710	445	380	315	265	305	360
12	680	910	975	1420	2610	610 E	480	400	290	275	275	355
13	610	910	990	1645	2460	545 E	490	410	300	250	240	340
14	660	930	1075	1540	2355	480 E	430	415	300	220	260	310
15	790	935	975	1605	2105	450 E	375	460	275	210	280	300
16	845	925	1205	1740	1820	390 E	400	505	260	225	225	315
17	845	870	1190	1645	1670	430	445	540	255	260	225	330
18	835	945	1150	1355	1555	365	470	530	235	290	200	345
19	835	955	1240	1275	1510	340	415	535	250	260	205	380
20	640	960	1145	1480	1510	335	370	550	290	220	240	345
21	780	960	1050	1320	1410	345	350	525	305	230	280	340
22	830	945	945	1360	1260	300	355	530	305	225	310	340
23	865	920	1110	1480	1210	320	370	585	280	215	305	370
24	900	835	1155	1235	1160	300	460	580	335	240	280	395
25	900	890	1180	1165	1150	305	535	555	250	275	265	385
26	845	920	980	1110	1205	315	570	550	265	295	305	395
27	640	920	815	1165	1250	360	675	535	300	275	300	415
28	815	810	830	1160	1225	415	910	460	285	250	305	405
29	855	850	830	1150	1140	485	935	440	285	270	330	405
30	880	875	980	1115		505	860	475	295	305	260	415
31	860		1015	1110		560		455		295	255	
Mean	739	880	999	1324	1567	602	493	524	301	260	283	350
Ac-Ft	45461	52522	61396	81392	90149	37031	[illegible]	32192	17901	16017	17425	20817

E — Estimated NR — No Record

Total Discharge in Acre-Feet 501631

TABLE 155

DAILY MEAN DISCHARGE
STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	33	42	34	18	22	22	34	28	26	24	22
2	18	34	41	34	79	22	20	24	28	25	24	21
3	17	33	42	34	34	21	20	20	27	26	24	20
4	17	36	42	33	24	21	20	19	29	26	23	20
5	17	36	42	33	24	22	20	19	29	29	21	22
6	23	35	43	33	43	22	22	27	27	28	20	23
7	34	34	45	33	33	23	25	30	32	28	19	23
8	36	33	45 E	32	246	22	32	31	32	30	19	23
9	35	33	43 E	33	260	22	33	33	38	29	20	20
10	35	33	45 E	38	325	22	33	32	41	27	22	20
11	36	33	43 E	37	77	21	36	33	42	25	24	21
12	36	33	43 E	61	38	22	37	33	39	26	24	23
13	33	33	42 E	43	31	25	36	33	39	24	24	22
14	32	33	42 E	38	26	23	37	260	42	25	25	21
15	29	34	42	42	23	22	34	113	45	26	22	21
16	26	34	42	48	21	21	33	110	42	24	24	20
17	26	34	41	43	19	21	33	58	37	26	24	20
18	29	34	41	41	19	21	33	37	33	26	24	19
19	30	34	38	41	18	19	34	37	31	29	24	21
20	29	35	39	39	17	19	33	34	31	29	21	23
21	34	35	39	36	18	21	34	33	33	28	19	25
22	39	36	39	30	17	23	35	33	32	26	19	25
23	37	36	41	24	16	27	34	35	30	26	20	25
24	36	37	42	25	16	28	60	38	30	26	21	21
25	34	37	41	25	17	29	34	37	28	26	23	23
26	33	38	38	37	19	27	32	33	29	27	23	24
27	32	38	37	31	22	27	34	32	31	24	19	25
28	33	39	37	24	23	29	32	32	32	21	20	29
29	33	48	37	20	22	24	29	33	30	24	22	32
30	31	43	36	17		22	31	30	28	24	22	33
31	32		35	16		23		29		25	22	
Mean	30.0	35.5	40.8	34.0	53.3	23.0	31.6	44.6	33.2	26.2	22.0	22.9
Ac-Ft	1845	2110	2509	2093	3065	1414	1880	2741	1974	1609	1353	1363

E — Estimated NR — No Record

Total Discharge in Acre-Feet 23960

TABLE 156

DAILY MEAN DISCHARGE
STANISLAUS RIVER AT RIVERBANK

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	80	84	97	75	58	62	69	60	60	62	79	63
2	83	86	91	73	69	61	64	64	64	63	74	65
3	84	88	91	73	106	60	65	52	60	62	75	68
4	83	85	91	72	81	59	62	49	58	62	72	60
5	80	88	94	70	88	59	61	51	60	64	66	55
6	83	90	95	69	88	60	66	48	61	68	73	63
7	93	86	95	68	91	59	70	53	60	66	71	65
8	103	85	94	70	94	58	65	55	74	70	69	64
9	115	85	98	72	474	58	73	60	85	69	68	71
10	113	84	101	78	473	58	73	63	94	65	72	69
11	108	85	91	85	323	58	74	58	91	65	73	70
12	113	86	91	88	138	60	79	59	94	61	66	71
13	113	85	94	101	93	61	75	56	88	66	69	78
14	103	85	94	89	80	61	75	98	85	65	64	78
15	95	85	93	85	74	59	81	331	85	59	61	74
16	86	86	91	84	70	59	73	184	90	54	59	72
17	84	86	90	86	65	59	77	153	88	55	61	71
18	84	86	86	84	65	59	75	86	86	59	61	63
19	88	85	84	83	64	58	73	71	84	60	59	62
20	93	84	83	83	62	63	72	70	70	65	59	63
21	89	86	81	84	61	66	65	72	77	71	55	63
22	88	86	81	80	62	63	74	73	77	66	53	57
23	95	88	83	73	62	65	75	74	78	66	54	62
24	91	88	86	64	61	70	86	77	69	64	55	68
25	88	89	88	61	60	75	111	84	74	60	59	58
26	86	89	83	57	60	83	73	65	74	55	65	55
27	84	90	79	70	61	85	91	61	72	59	68	62
28	84	90	78	70	61	84	112	61	65	62	60	66
29	85	93	78	61	62	80	74	61	71	60	60	78
30	84	99	78	58		74	61	70	65	69	62	85
31	84		77	55		71		68		80	63	
Mean	91.7	87.1	88.3	74.9	111	64.7	74.8	80.2	75.3	63.6	64.7	66.6
Ac-Ft.	5637	5181	5427	4604	6359	3981	4451	4933	4481	3911	3977	3965

E — Estimated NR — No Record

Total Discharge in Acre-Feet 56910

TABLE 157

DAILY MEAN DISCHARGE
STANISLAUS RIVER NEAR MOUTH

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	107	155	139	149	139	119	53	159	31	40	NR	NR
2	120	134	150	147	141	126	39	119	17	21 E	14	10
3	114	103	157	147	147	98	60	150	14	44	NR	25
4	107	109	159	147	157	77	42	130	20	42	NR	52
5	119	110	159	145	167	81	27	68	30	39	NR	51
6	120	117	157	144	164	69	12	74	22	21	NR	46
7	114	139	164	147	184	75	9.0	52	22	18 E	NR	42
8	149	161	154	145	171	58	23	60	20	17 E	NR	37
9	167	162	162	147	169	51	37	44	24	15 E	NR	26
10	167	157	162	147	308	55	63	30	38	37	NR	19
11	159	141	166	150	442	35	99	21	37	NR	NR	32
12	129	122	164	157	398	27	98	20	50	NR	NR	31
13	77	139	161	159	287	39	87	28	32	NR	NR	27
14	82	159	159	164	228	49	45	37	21	NR	NR	24
15	116	159	161	164	197	39	47	58	NR	NR	NR	33
16	123	159	162	159	175	51	53	175	NR	NR	NR	45
17	169	161	152	155	166	41	74	119	NR	NR	NR	38
18	167	162	142	154	157	23	40	77	31	NR	NR	55
19	162	157	149	155	150	11 E	21 E	76	18	NR	NR	53
20	164	157	150	155	145	14	10 E	65	18	0 E	NR	37
21	173	152	154	155	142	15	12 E	53	NR	NR	NR	39
22	187	147	154	157	136	7.4E	13	65	NR	NR	0.6E	47
23	152	157	152	154	134	17 E	34	74	NR	NR	NR	46
24	178	142	154	152	133	7.8E	100	104	NR	NR	NR	31
25	162	142	157	150	131	6.8	128	117	NR	NR	NR	30
26	164	154	154	144	129	15 E	114	67	19	NR	NR	39
27	131	145	154	141	128	52	152	54	84	NR	NR	41
28	128	144	152	142	126	50	222	37	43	NR	NR	22
29	120	150	142	145	126	53	176	37	30	NR	22	22
30	123	137	147	139		44	145	53	32	NR	15	30
31	144		149	126		56		39		NR	NR	
Mean	139	144	155	150	182	47.2	67.8	73.0				
Ac-Ft.	8517	8594	9517	9207	10470	2900	4036	4487				

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 158

DAILY MEAN DISCHARGE
DUCK CREEK DIVERSION NEAR FARMINGTON

In second feet

Date	1959			1960								
	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					60							
9					59							
10					54							
11					0							
12	N	N	N	N	0	N	N	N	N	N	N	N
13	0	0	0	0	0	0	0	0	0	0	0	0
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	0	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					0							
30					0							
31					0							
Mean	0	0	0	0	6	0	0	0	0	0	0	0
Ac-Ft	0	0	0	0	343	0	0	0	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 343

TABLE 159

DAILY MEAN DISCHARGE
LITTLEJOHN CREEK AT FARMINGTON

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0				0	5	0	4	0		0	2
2	0				0	3	0	2	0		0	2
3	0				0	3	0	2	0		0	4
4	0				0	3	0	1	0		0	6
5	0				0	2	0	1	0		0	4
6	0				0	3	0	1	0		0	4
7	0				5	4	0	0.5	0		0	2
8	0				119	3	0	0.5	0		0	4
9	0				358	2	0	0.5	0		0	2
10	1.0				436	2	0	0	0		0	1
11	0				523	1	0	0	0		0	0.6
12	0	N	N	N	492	1	0	0	0	N		0.6
13	0	0	0	0	297	1	0	0	0	0	0	1.0
14	0				120	1	0	0	0		0	0.6
15	0				75	0	0	0	0		0	0.4
16	0	F	F	F	56	0	0	0	0	F	0	1.0
17	0	L	L	L	44	0	0	0	0	L	0	1.5
18	0	O	O	O	35	0	0	0	0	O	0.6	2.0
19	0	W	W	W	28	1	0	0	0.2	W	1.0	2.0
20	0				23	1	0	0	0.4		1.0	1.0
21	0				21	1	0	0	0.4		0.6	0.6
22	0				20	0	0	0	0.4		0.6	0.6
23	0				19	0	0	0	0.4		0.6	1.5
24	0				17	0	3	0	0.3		1.0	1.0
25	0				15	0	4	0	0.2		2.0	0.4
26	0				13	1	2	0	0		2.0	0.4
27	0				10	1	2	0	0		1.5	0.6
28	0				8	1	5	0	0		1.0	0.4
29	0				6	1	7	0	0		1.5	0.6
30	0					0	7	0	0		1.5	0.6
31						0					3.0	
Mean	0.03	0	0	0	94	1.3	1	0.4	0.06	0	0.6	1.6
Ac-Ft	1.98	0	0	0	5435	81	60	25	5	0	36	94

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5738

TABLE 160

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

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9.1	8.3	5.4	4.0	3.9	3.9	5.3E	12	24	16	19	32
2	12	8.2	5.2	4.0	3.9	3.2	BW	11	28	15	24	28
3	21	7.6	5.1	4.0	3.9	3.6	BW	13	15	20	25	25
4	27	7.3	4.9	NR	3.9	3.9	BW	8.2	15	26	22	22
5	18	7.0	5.4	NR	4.5	4.7	12 E	18	12	27	20	19
6	20	6.7	4.9	3.8E	4.4	4.7	BW	19	15	28	19	22
7	24	6.3	4.8	3.9	4.5	4.7	17 E	12	19	26	18	22
8	23	6.1	4.7	4.7	4.6	4.8	11	14	17	16	19	17
9	17	6.3	4.7	4.0	4.7	4.9	3.6	19	19	14	16	15
10	13	5.8	4.8	4.6	4.8	5.1	12	17	21	21	20	15
11	13	5.6	4.7	4.0	4.9	4.2	9.9	16	21	18	21	13
12	11	5.3	4.6	3.8	4.9	5.2	8.2	19	25	23	18	17
13	13	5.7	4.5	3.8	4.8	6.1	11	28	15	22	16	20
14	16	5.6	5.4	3.8E	4.8	4.0	15	34	11	16	14	18
15	16	5.2	4.6	3.8E	4.9	4.0	16	25	15	19	18	18
16	24	5.1	4.4	3.8E	5.3	6.2	19	22	17	19	15	20
17	25	5.2	4.2	3.8E	5.7	6.1	20	20	20	25	19	19
18	34	5.3	4.4	3.8E	4.9	5.7	15	16	19	22	13	20
19	28	5.3	4.5	3.8E	4.9	6.1	18	20	15	24	17	21
20	20	5.2	4.2	3.6E	4.9	6.6	14	22	16	17	34	18
21	16	5.1	4.0	3.6	5.7	6.7	16	20	19	21	47	20
22	13	5.3	4.0	4.2	4.6	7.7	19	33	21	18	48	24
23	12	5.2	4.1E	3.6	4.5	7.5	16	54	20	18	43	23
24	11	5.2	4.1E	3.7	4.4	8.2	20	44	17	16	30	28
25	10	5.3	4.1E	3.7	4.9	6.9	21	21	21	20	23	20
26	9.6	6.1	5.3	3.6	4.4	6.2	20	18	20	20	28	19
27	9.6	5.7	4.1	3.6	4.2	BW	17	19	25	22	26	19
28	9.6	5.4	4.0	3.6	4.2	BW	17	20	25	15	24	20
29	9.4	5.3	4.0	3.6	4.1	BW	13	23	22	18	29	26
30	8.8	5.3	4.5	3.6		6.9	13	27	17	18	29	32
31	8.3		4.7	3.7		6.6		26		19	27	
Mean	16.2	5.9	4.6		4.6			21.6	18.9	20.0	23.9	21.1
Ac-Ft	995	351	282		266			1329	1123	1228	1470	1254

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

BW Data insufficient to compute flow during periods of backwater.

TABLE 161

DAILY MEAN DISCHARGE
FRENCH CAMP SLOUGH NEAR FRENCH CAMP

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.0	NR	2.5	0.4	1.9	2.6	9.2	21	37	30	8.7	4.6 E
2	4.3	NR	1.8	0.3	53	2.2	4.2	13	29	21	1.9	8.8 E
3	5.3	NR	2.0	0.3	43	1.9	4.2 E	10	24	18 E	12	7.6
4	11	4.2 E	5.5	0.4	15	2.0	5.0 E	20	19	14 E	12	7.6
5	14	2.6	5.5	0.9	21	1.5	10	24	18	8.8 E	8.8	8.4
6	9.3	1.9	7.3	0.7	126	1.0	1.8	20	21	9.7	10	9.7
7	14	1.0	6.7	0.6	60	0.8	0.1	17	18	9.3	8.0	8.4
8	17	0.8	7.7	1.2	25	0.6	0	17	14	8.8	19	13
9	12	1.5	7.7	1.8	316	0.4	0	15	16	12	8.8	14
10	14	3.0	7.0	1.1	469	0.2	0	8.8	11	5.0	7.2	16
11	18	3.2	5.2	1.1	501	0.3	8.1	4.6	8.8	2.7	13	21
12	29	3.4	5.2	3.9	543	0.9	21	3.7	17	10	9.7	25
13	10	3.2	7.0	18	512	1.2	39	5.0	24	5.7	4.6 E	10
14	23	3.2	7.7	6.1	152	0.5	39	4.6	18	4.6	4.6 E	18
15	28	4.0	8.0	4.2	53	0.6	46	14	8.4	9.2	4.6 E	15
16	NR	4.0	6.1	3.8	30	0.6	50	37	6.0	4.6	4.6 E	16
17	NR	3.4	5.8	3.0	21	1.7	48	34	5.0	5.7	4.6 E	14
18	NR	3.8	4.7	2.8	15	0.7	42	23	6.4	2.7	4.6 E	29
19	NR	5.2	3.2	2.2	12	0.8	11	30	12	6.5	4.6 E	28
20	NR	5.0	3.4	1.9	10	1.5	21	26	16	13	4.6 E	11
21	NR	4.5	2.5	1.4	8.4	2.8	16	38	16	14	4.6 E	9.7
22	NR	3.4	1.4	1.1	7.7	2.3	28	47	13	12	4.6 E	13
23	NR	3.2	1.1	1.0	7.0	2.3	32	39	18	8.4	4.6 E	18
24	NR	2.6	1.4	1.3	6.7	3.4	61	51	19	8.8	4.6 E	27
25	NR	1.9	2.5	2.0	6.1	2.3	74	55	8.4	5.0	4.6 E	19
26	NR	1.4	2.5	2.2	5.2	2.6	59	56	9.7	4.6	4.6 E	32
27	NR	1.2	1.4	4.2	4.7	4.5	69	41	14	5.3	4.6 E	24
28	NR	1.3	1.8	3.0	4.0	19	112	45	10	6.8	4.6 E	27
29	NR	1.7	1.1	2.0	3.8	33	91	42	14	4.6	4.6 E	23
30	NR	2.8	0.6	1.5		21	44	56	20	3.4	4.6 E	24
31	NR		0.6	1.1		23		48		3.4	4.6 E	
Mean			4.1	2.4	10.5	4.5	31.5	27.9	15.7	9.0	6.7	16.7
Ac-Ft			252	150	6015	274	1876	1717	934	551	410	995

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

TABLE 162

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

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	30	16	10	9.6	33	9.5	25	19	NR	57	33	32
2	25	16	10	9.5	17	8.8	27	18	NR	39	44	34
3	40	16	10	9.3	7.9	7.8	22	17	NR	41	41	42
4	41	16	9.7	9.5	7.5	8.6	22	27	NR	41	38	43
5	40	15	9.5	9.8	18	9.7	27	28	NR	42	42	35
6	33	15	9.2	9.2	13	8.6	25	20	NR	39	33	36
7	38	15	9.2	9.5	8.9	8.4	26	26	NR	45	33	35
8	44	14	9.0	9.9	18	8.2	27	30	NR	46	38	32
9	47	14	9.0	11	17	7.8	26	34	NR	47	42	30
10	35	14	8.8	9.9	18	7.4	21	33	NR	53	41	37
11	43	14	10	15	15	7.2	26	33	NR	55	33	32
12	44	13	9.5	14	24	7.8	37	35	NR	49	43	39
13	48	13	8.2	10	24	8.2	36	31	NR	52	47	41
14	44	13	8.2	10	15	7.4	31	38	NR	52	42	43
15	44	13	8.5	10	12	8.2	41	31	NR	50	50	46
16	49	13	9.2	9.7	12	7.8	40	36	NR	42	55	40
17	55	13	12	9.2	11	7.6	43	49	NR	49	41	37
18	38	13	12	9.0	11	7.6	35	36	NR	51	33	45
19	37	13	10	8.4	11	7.8	48	38	NR	38	38	40
20	39	13	9.5	6.6	11	7.8	37	44	NR	44	40	40
21	26	12	9.5	6.5	10	7.8	33	45	NR	39	38	41
22	22	12	9.6	7.6	10	9.9	34	36	NR	42	42	45
23	21	12	12	6.8	10	11	35	35	NR	42	50	49
24	20	12	12	7.6	10	15	35	47	NR	35	42	55
25	19	12	9.9	7.2	10	14	36	39	NR	42	30	60
26	18	11	9.6	5.7	11	17	44	39	NR	38	44	47
27	17	11	9.8	5.2	9.7	15	68	39 E	NR	32	37	41
28	16	10	9.9	5.5	9.7	21	143	39 E	NR	32	35	45
29	15	11	9.9	5.2	9.7	22	44	39 E	NR	30	36	50
30	15	11	9.9	4.8		20	22	39 E	53 E	31	35	43
31	16		9.9	5.2		28		39 E		34	32	
Mean	32.9	13.2	9.8	8.6	13.6	11.1	37.2	34.2		42.9	39.6	41.2
Ac-Ft	2021	785	602	528	782	680	2214	2100		2636	2436	2450

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 163

DAILY MEAN DISCHARGE
DUCK CREEK NEAR STOCKTON

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2			0.3	0	2.3	0	4.0	0.8	0.3	2.7
2	0.1	0.1			2.8	0	1.8	0.1	3.5	1.0	1.1	2.8
3	0.2	0			1.0	0	1.3	1.7 E	1.8	0.2	2.3	1.1
4	0.5	0			5.4	0	1.7	1.3 E	0.7	1.0	3.3	0
5	0.8	0			6.9	0	3.2	0.4 E	1.6	1.0	5.0	0
6	0.6	0			3.6	0	1.9	1.1	1.2	2.1	3.0	0.8
7	0.1	0			5.4	0	2.4	2.3	3.8	3.3	1.4	0.8
8	0.1	0			7.2	0	1.8	2.8	1.9	1.7	1.2	1.3
9	0	0			8.1	0	1.3	1.0	0.4	0.4	4.4	2.7
10	0	0			41	0	3.3	1.6	1.6	1.1	3.3	3.3
11	0.1	0			52	0	1.3	1.1	2.7	1.7	2.5	4.2
12	0.2	0	N	N	26	0	1.9	0.8	1.6	1.4	2.7	6.0
13	0.3	0.3	O	O	12	0	1.9	4.7	1.2	1.6	3.3	3.6
14	0.4	0.5			3.9	0	3.1	9.1	1.1	1.0	2.5	1.6
15	0.3	0.3			0.7	0	1.9	4.2	1.9	0.8	2.0	1.3
16	0.1	0.2	F	F	0	0	1.6	0.6	1.7	1.1	4.2	1.0
17	0.1	0.1	L	L	0	0.2	1.9	0.2	2.0	1.4	3.6	1.1
18	0.2	0.1	O	O	0	0.6	0.8	0.4	2.0	0.6	3.6	1.2
19	0.1	0.6	W	W	0	0.5	1.0	0.2	1.0	1.1	5.4	2.7
20	0.2	1.0			0	0.9	0.3	1.9	1.0	2.0	3.6	2.9
21	0.2	0.4			0	1.4	0.3	5.8	2.1	1.7	3.2	2.3
22	0.1	0.1			0	0.9	0.9	3.7	1.6	1.0	1.1	1.4
23	0	0			0	1.6	1.4	2.4	1.4	0.4	3.3	0.7
24	0	0			0	2.2	1.1	1.3	0.9	1.1	3.1	1.0
25	0.1	0			0	2.9	0.3	0.7	0.9	1.1	5.0	0.8
26	0	0			0	2.3	0.7	3.8	0.9	0.8	3.5	2.2
27	0	0			0	1.2	1.0	2.9	0.3	2.1	2.8	3.3
28	0	0			0	0.4	0.3	6.0	0.5	2.9	2.4	3.8
29	0.1	0			0	0.7	1.9	5.4	0.9	1.8	0.5	2.2
30	0.1	0				0.2	0.3	2.7	1.0	2.3	2.5	1.5
31	0.1					0.9		2.3		1.0	2.8	
Mean	0.2	0.1	0	0	6.1	0.5	1.5	2.3	1.6	1.3	2.9	2.0
Ac-Ft	11	8	0	0	350	34	89	144	94	82	176	120

E — Estimated NR — No Record

Total Discharge in Acre-Feet 1108

TABLE 164
DAILY MEAN DISCHARGE
CALAVERAS RIVER AT BELLOTA

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	41	1.2			0	123		
2				0	53	1.1			0	83		
3				0	67	1.0			0.6	49		
4				0	56	1.5			90	29		
5				0	76	0.7			147	62		
6				0	61	0.2			152	0		
7				0	57	0			149	0		
8				0	111	0			172	0		
9				0	291	0			158	0		
10				0	278	0			153	0		
11				0	230	0			153	0		
12	N	N	N	1.1	131	9.4	N	N	148	0	N	N
13	O	O	O	4.5	89	100	O	O	146	0	O	O
14				4.2	76	35			137	0		
15				4.1	67	14			114	0		
16	F	F	F	3.9	62	4.2	F	F	126	0	F	F
17	L	L	L	3.8	21	2.3	L	L	120	0	L	L
18	O	O	O	3.6	1.5	2.3	O	O	117	0	O	O
19	W	W	W	3.6	1.1	2.3	W	W	117	0	W	W
20				3.3	1.6	2.3			117	0		
21				8.7	3.0	2.3			115	0		
22				13	1.9	2.1			116	0		
23				14	1.2	1.9			111	0		
24				15	1.1	1.6			129	0		
25				18	1.2	0.9			139	0		
26				30	1.2	0.3			140	0		
27				52	1.2	0			139	0		
28				51	1.2	0			144	0		
29				47	1.2	0			146	0		
30				43		0			149	0		
31				34		0				0		
Mean	0	0	0	11.5	61.5	6.0	0	0	121	9.4	0	0
Ac-Ft	0	0	0	710	3539	370	0	0	7229	576	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 12420

TABLE 165
DAILY MEAN DISCHARGE
CALAVERAS RIVER NEAR STOCKTON

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0			0	23	0	0		0	16	0	0
2	0			0	33	0	0		0	5.0	0	0
3	0			0	52	0	0		0	0.1	0	0
4	0			0	47	0	0		0	0	0	0
5	0			0	53	0	0		0	0	0	0
6	0			0	57	0	0		0	0	0	0
7	0			0	46	0	0		0.7	0	0	0
8	0			0	56	0	0		22	0	0	0
9	0			0	227	0	0		33	0	0	0
10	0			0	240	0	0		23	0	0	0
11	0			0	215	0	0		30	0	0	0
12	0	N	N	0	149	0	0.1	N	36	0	0	0.1
13	0	O	O	0	97	59	0	O	30	0	0	0
14	0			0	79	55	0		19	0	0	0
15	0			0	70	22	0		12	0	0	0
16	0	F	F	0	63	6.4	0	F	8.6	0	0	0
17	0	L	L	0	48	0.5	0	L	16	0	0	0
18	0	O	O	0	4.4	0	0	O	18	0	0	0
19	0	W	W	0	0.2	0	0	W	18	0	0	0.1
20	0			0	0	0	0		23	0	0	0.1
21	0			0	0	0	0		15	0	0	0
22	0			0	0	0	0		13	0	0	0
23	0			0	0	0	0		10	0	0	0
24	0			0	0	0	0		7.6	0	0	0
25	0			0	0	0	0		7.6	0	0	0
26	0			0	0	0	0		5.8	0	0	0
27	0.1			0.8	0	0	0		4.8	0	0	0
28	0.1			27	0	0	0		0.2	0	0.3	0
29	0.1			33	0	0	0		0.3	0.1	0.1	0
30	0			32		0	0		14	0.1	0.1	0
31	0			27		0				0	0	
Mean	0.0	0	0	3.9	53.8	4.6	0.0	0	12.3	0.7	0.0	0.0
Ac-Ft	1	0	0	238	3093	283	0	0	729	42	1	1

E — Estimated NR — No Record

Total Discharge in Acre-Feet 4388

TABLE 166

DAILY MEAN DISCHARGE
MORMON SLOUGH AT BELLOTA

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	41	0			0	42		
2				0	96	0			0	12		
3				0	255	0			0	2.8		
4				0	103	0			43	0.5		
5				0	128	0			57	0.5		
6				0	73	0			46	2.4		
7				0	109	0			44	1.2		
8				0	508	0			66	0.2		
9				0	2360	0			51	0		
10				0	2330	0			49	0		
11				0	1740	0			58	0		
12				9.0	708	137			60	0		
13	N	N	N	38	304	311	N	N	62	0	N	N
14	O	O	O	40	175	6.7	O	O	59	0	O	O
15				24	118	0			43	0		
16	F	F	F	16	78	2.2	F	F	62	0	F	F
17	L	L	L	12	27	5.0	L	L	59	0	L	L
18	O	O	O	9.6	21	2.3	O	O	61	0	O	O
19	W	W	W	6.7	13	1.3	W	W	61	0	W	W
20				5.8	6.7	0.2			58	0		
21				2.4	0.5	0			55	0		
22				0	1.1	0			56	0		
23				0	2.9	0			49	0		
24				0	1.7	0			62	0		
25				0	1.3	0			58	0		
26				0.2	0.9	0			59	0		
27				26	0.3	0			52	0		
28				34	0	0			50	0		
29				13	0	0			51	0		
30				0		0			58	0		
31				0		0				0		
Mean	0	0	0	7.6	317	15.0	0	0	49.6	2.0	0	0
Ac.-Ft.	0	0	0	469	18250	924	0	0	2955	122	0	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 22720

TABLE 167

DAILY MEAN DISCHARGE
STOCKTON DIVERTING CANAL AT STOCKTON

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	0.9	0			0			
2				0	46	0			0			
3				0	303	0			0			
4				0	199	0			0			
5				0	181	0			0			
6				0	126	0			0			
7				0	152	0			0			
8				0	267	0			0			
9				0	2200	0			24			
10				0	2360	0			3.0			
11				0	1810	0			0.2			
12				0	792	0			0			
13	N	N	N	0	311	217	N	N	21	N	N	N
14	O	O	O	0	167	33	O	O	15	O	O	O
15				0.3	134	1.5			4.9			
16	F	F	F	34	103	0	F	F	0	F	F	F
17	L	L	L	26	66	0	L	L	0	L	L	L
18	O	O	O	21	23	0	O	O	0	O	O	O
19	W	W	W	16	18	0	W	W	0	W	W	W
20				12	9.6	0			0			
21				7.7	3.9	0			0			
22				3.7	0.4	0			0			
23				0.3	0	0			0			
24				0	0	0			0			
25				0	0	0			0.2			
26				0	0	0			6.3			
27				0	0	0			15			
28				0	0	0			0.1			
29				55	0	0			0			
30				30		0			0			
31				10		0						
Mean	0	0	0	7.0	320	8.1	0	0	3.0	0	0	0
Ac-Ft	0	0	0	428	18390	499	0	0	178	0	0	0

E – Estimated NR – No Record

Total Discharge in Acre-Feet 19500

TABLE 168

DAILY MEAN DISCHARGE
DELTA-MENDOTA CANAL NEAR TRACY

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1673	607	357	69	429	1497	1658	1721	3006	3902	3679	2416
2	1954	608	70	69	285	1359	1683	1715	3110	3906	3458	2203
3	1989	536	427	69	284	1322	1501	1659	3187	3910	3462	2201
4	1989	536	427	69	391	1673	1644	1727	3235	3924	3595	2056
5	1989	535	427	69	391	1723	1649	1901	3329	3873	3599	2051
6	1920	534	283	104	212	1720	1757	2113	3359	3778	3730	1769
7	1527	534	284	104	212	1724	2047	2510	3381	3738	3733	1666
8	1492	535	249	104	213	1788	2153	2582	3441	3678	3735	1696
9	1493	534	249	104	105	1909	2156	2867	3603	3816	3734	1723
10	1260	535	212	104	105	2121	2368	2763	3803	3808	3692	1718
11	1260	607	212	104	105	2264	2370	2522	3764	3794	3750	1662
12	1259	608	211	104	213	2306	2511	2645	3752	3787	3748	1663
13	1194	717	211	104	212	2410	2573	2622	3750	3875	3661	1663
14	1194	717	211	105	212	2403	2743	2832	3756	3843	3667	1665
15	1026	715	210	105	464	2402	2955	2830	3651	3906	3690	1667
16	1027	716	211	105	464	2404	2960	2830	3656	4001	3690	1666
17	1027	715	211	105	465	2574	2960	3041	3767	4001	3691	1665
18	1029	606	70	105	466	2606	2960	3038	3856	4081	3696	1671
19	865	536	69	105	466	2607	2935	2784	4009	4078	3633	1729
20	751	534	69	105	718	2608	3141	2786	3944	4147	3567	1727
21	817	535	69	105	718	2806	3144	2618	3844	4150	3560	1792
22	960	534	69	105	790	2869	3298	2514	3857	4151	3350	2166
23	993	605	69	103	928	2867	3322	2514	3797	4146	3145	2088
24	929	677	69	104	1092	2811	a 3352	2578	3808	4145	3149	1906
25	863	642	69	104	1093	2807	3349	2876	3809	4154	3040	b 1933
26	865	642	68	609	1262	2745	3317	3108	3805	4147	3041	1911
27	864	570	68	608	1362	2676	2881	3113	3928	3850	2971	1911
28	848	570	69	607	1497	2220	2328	2866	3917	3852	2971	1914
29	818	570	69	607	1536	1723	2151	2867	3809	3788	2408	2127
30	716	498	69	428		1725	2081	2867	3804	3780	2198	2159
31	715		69	428		1717		2866		3708	2198	
Mean	1203	594	175	185	576	2206	2532	2590	3658	3926	3395	1873
Ac-Ft	73995	35322	10764	11345	33104	135642	150362	159223	217660	241422	208742	111599

E — Estimated NR — No Record

Total Discharge in Acre-Feet 1389180

a 23 hour day.
b 25 hour day.

TABLE 169

DAILY MEAN DISCHARGE
SUTTER CREEK NEAR SUTTER CREEK

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							23	22	2.8			
2							20	19	1.7			
3							19	18	1.7			
4							20	18	1.1			
5							17	17	0.6			
6							17	16	2.2			
7							17	15	2.2			
8							24	13	2.2			
9							14	13	1.1			
10							13	11	0.6			
11							14	10	0			
12							13	10	0	N	N	N
13							13	10	0	O	O	O
14							13	10	0			
15						42	12	9.5	0			
16						34	11	9.5	0	F	F	F
17						29	10	8.8	0	L	L	L
18						25	9.5	8.2	0	O	O	O
19						23	9.5	7.5	0	W	W	W
20						21	9.5	7.5	0			
21						19	8.8	6.8	0			
22						18	10	6.8	0			
23						17	14	6.2	0			
24						15	23	10	0			
25						15	23	8.2	0			
26						14	18	7.5	0			
27						18	63	6.2	0			
28						44	58	5.5	0			
29						24	34	4.8	0			
30						24	27	4.1	0			
31						31		4.1				
Mean							19.2	10.4	0.5	0	0	0
Ac-Ft.							1145	641	32	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 170
DAILY MEAN DISCHARGE
DEER CREEK NEAR SLOUGHHOUSE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		NR		0	70	4.7	11	2.8	0.1			
2		NR		0	77	4.2	7.9	2.8	0			
3		NR		0	16	4.2	7.2	2.8	0			
4		NR		0	15	3.8	6.1	3.1	0			
5		NR		0	122	5.1	5.6	2.8	0			
6		NR		0	29	8.5	4.7	2.0	0			
7		NR		0	94	7.9	4.7	2.0	0			
8		NR		0	1160	9.2	4.7	2.0	0			
9		NR		0	218	7.9	3.8	1.8	0			
10		NR		0	268	5.6	3.5	1.8	0			
11		NR		0	89	5.1	3.8	1.8	0			
12	N	NR	N	0	45	6.6	5.1	1.6	0	N	N	N
13	O	NR	O	0	29	64	4.7	1.4	0	O	O	O
14		NR		0	23	24	2.0	1.4	0			
15		NR		0	15	14	3.1	1.4	0			
16	R	NR	F	0	14	12	2.8	1.1	0	F	F	F
17	E	NR	L	0	12	9.2	2.8	0.9	0	L	L	L
18	C	NR	O	0	11	8.5	2.5	0.8	0	O	O	O
19	O	NR	W	0	11	8.5	2.5	0.5	0	W	W	W
20	R	NR		0	8.5	7.2	2.5	0.3	0			
	O											
21		NR		0	7.2	6.1	2.0	0	0			
22		NR		0	7.2	5.1	1.8	0	0			
23		NR		0	6.6	5.1	2.0	0	0			
24		NR		0	5.6	4.7	2.5	0.3	0			
25		0 E		100 E	5.6	4.7	3.1	1.2	0			
26		0		60 E	5.6	4.7	2.3	0.9	0			
27		0		27 E	5.6	5.6	5.1	1.2	0			
28		0		10	5.1	26	12	1.4	0			
29		0		5.6	4.7	12	6.1	1.2	0			
30		0		3.8		9.2	3.8	0.8	0			
31				3.1		15		0.4				
Mean			0	6.8	82.1	10.3	4.4	1.4	0.0	0	0	0
Ac-Ft.			0	416	4720	632	261	84	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet

TABLE 171
DAILY MEAN DISCHARGE
CONTRA COSTA CANAL NEAR OAKLEY

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	91	76	87	76	60	94	53	81	114	161	170	148
2	66	78	87	76	59	103	55	83	127	156	171	149
3	71	80	88	74	61	145	54	80	150	148	173	147
4	81	81	89	72	60	157	59	83	155	145	167	146
5	98	85	90	78	56	158	62	82	152	169	172	134
6	100	88	90	79	51	139	62	82	149	163	170	142
7	91	85	89	79	51	84	72	82	146	167	167	122
8	79	85	85	78	54	76	68	82	148	170	163	129
9	84	88	87	78	52	75	64	80	199	170	164	131
10	89	87	87	69	51	71	65	89	149	169	165	135
11	88	89	93	74	51	66	65	91	146	169	162	133
12	84	93	87	71	50	66	65	91	141	165	164	141
13	92	92	85	70	51	62	61	102	145	166	161	147
14	97	88	82	70	52	59	65	102	150	165	161	146
15	94	87	84	72	49	58	64	102	165	165	165	151
16	94	83	84	65	53	56	65	101	174	169	162	152
17	89	87	84	66	53	56	67	103	173	164	162	150
18	90	88	84	64	56	56	79	107	174	167	162	140
19	91	86	86	67	52	56	82	108	166	178	160	143
20	85	87	84	64	53	57	79	116	172	180	164	147
21	85	87	85	64	53	57	87	119	168	177	161	142
22	83	91	79	69	55	59	91	119	173	181	160	141
23	85	81	82	70	55	55	95	116	173	180	156	141
24	85	85	76	68	55	55	a 95	107	174	178	153	134
25	86	96	76	69	57	55	90	109	169	175	152	b 151
26	84	86	73	63	57	55	93	109	168	175	152	143
27	82	87	68	70	61	56	93	108	173	175	150	147
28	70	79	76	66	59	54	83	100	170	173	147	146
29	72	80	75	65	57	55	80	99	169	179	150	146
30	67	89	78	65		59	80	100	169	171	151	146
31	69		77	65		54		108		171	145	
Mean	84.6	85.8	83.1	70.2	54.6	74.5	73.1	98.1	160	169	161	142
Ac-Ft	5200	5106	5112	4316	3141	4578	4342	6033	9523	10396	9881	8482

E — Estimated NR — No Record

a 23 hour day.
b 25 hour day.

Total Discharge in Acre-Feet 76110

TABLE 172

DAILY MEAN DISCHARGE
SOUTH FORK KINOS RIVER BELOW EMPIRE WEIR #2

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12	N	N	N	N	N	N	N	N	N	N	N	N
13	O	O	O	O	O	O	O	O	O	O	O	O
14												
15												
16	F	F	F	F	F	F	F	F	F	F	F	F
17	L	L	L	L	L	L	L	L	L	L	L	L
18	O	O	O	O	O	O	O	O	O	O	O	C
19	W	W	W	W	W	W	W	W	W	W	W	W
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 0

TABLE 173

DAILY MEAN DISCHARGE
CROSS CREEK BELOW LAKELAND CANAL NO. 2

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12	N	N	N	N	N	N	N	N	N	N	N	N
13	O	O	O	O	O	O	O	O	O	O	O	O
14												
15												
16	F	F	F	F	F	F	F	F	F	F	F	F
17	L	L	L	L	L	L	L	L	L	L	L	L
18	O	O	O	O	O	O	O	O	O	O	O	O
19	W	W	W	W	W	W	W	W	W	W	W	W
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 0

TABLE 174

DAILY MEAN DISCHARGE
NORTH FORK TULE RIVER AT SPRINGVILLE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	0.3	0.2	0.7	72	30	48	56	11	0.9	0.6	0.1
2	1.1	0.4	0.2	0.6	225	25	46	64	8.9	0.7	0.2	0.1
3	1.0	0.7	0.1	0.7	60	23	45	58	5.9	0.2	0.1	0.4
4	1.0	0.3	0.1	0.7	53	22	47	59	6.1	0.3	0.1	0.3
5	1.1	0.3	0.1	0.7	36	22	47	49	5.9	0.1	0	0.2
6	1.3	0.4	0.1	0.7	28	24	42	47	5.9	0.2	0	0.3
7	1.2	0.3	0.1	0.7	27	32	41	52	5.4	0.2	0.3	0.5
8	1.0	0.3	0.1	0.9	54	41	39	56	4.7	0.9	0.1	0.3
9	1.0	0.3	0.1	1.0	185	41	38	57	4.5	0.3	0	0.3
10	1.0	0.3	0.1	1.2	144	39	34	53	4.1	0.2	0	0.5
11	1.0	0.3	0.1	3.7	83	36	32	47	3.4	0.3	0	0.3
12	1.2	0.3	0.1	9.4	64	36	34	45	2.7	0.3	0.1	0.3
13	0.9	0.2	0.1	4.3	56	45	30	43	2.3	0.3	0.1	0.2
14	0.5	0.2	0.2	3.9	47	45	25	39	2.0	0.3	0	0.4
15	0.5	0.3	0.2	9.9	42	37	24	36	2.7	0.3	0	0.6
16	0.4	0.3	0.1	6.1	39	32	22	34	2.6	0.4	0.1	0.3
17	0.4	0.3	0.1	3.7	36	30	20	32	1.9	0.3	0.1	0.2
18	0.4	0.3	0.2	3.0	38	32	17	28	1.9	0.4	0	0.2
19	0.3	0.3	0.2	2.7	42	36	17	27	1.9	0.9	0.1	0.7
20	0.3	0.3	0.2	2.7	35	39	17	24	1.5	1.6	0	0.7
21	0.4	0.3	0.2	2.6	34	39	16	22	0.7	0.4	0	0.4
22	0.3	0.3	0.3	3.4	32	38	17	23	0.7	0.4	0	0.5
23	0.4	0.2	0.3	3.9	29	35	21	18	0.5	0.7	0	0.5
24	0.4	0.1	0.4	3.4	27	34	27	17	0.3	1.0	0	0.5
25	0.4	0.1	2.1	5.9	25	34	23	16	0.4	0.6	0.1	0.7
26	0.4	0.1	2.1	15	24	35	19	14	0.2	0.5	0.2	0.7
27	0.5	0.2	0.8	9.9	23	49	46	14	0.2	0.7	0.2	0.7
28	0.8	0.3	0.8	6.9	21	108	75	14	0.2	0.8	0.1	0.4
29	0.8	0.3	0.4	5.6	24	70	47	14	0.3	0.8	0.1	0.2
30	0.5	0.3	0.4	5.2		61	44	13	0.4	0.7	0	0.2
31	0.4		0.6	5.2		56		12		0.6	0	
Mean	0.7	0.3	0.4	4.0	55.3	39.5	33.3	34.9	3.0	0.5	0.1	0.4
Ac-Ft	44	17	22	246	3184	2432	1984	2148	177	32	5	23

E — Estimated NR — No Record

Total Discharge in Acre-Feet 10310

TABLE 175

DAILY MEAN DISCHARGE
TULE RIVER BELOW PORTERVILLE

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0				[illegible]	0	19[illegible]					
2	0				[illegible]	0	14[illegible]					
3	0				[illegible].6	0	131					
4	0				0	0	[illegible]					
5	0				0	0	0					
6	0				0	0	3[illegible]					
7	129				0	0	131					
8	296				0	0	142					
9	271				[illegible]	0	131					
10	247				1.5 E	0	10[illegible]					
11	250				[illegible]	0	[illegible]					
12	247				0	0	0.9					
13	227	N	N	N	0	0	0	N	N	N	N	N
14	218	0	0	0	0	0	0	0	0	0	0	0
15	221				0	0	0					
16	221	F	F	F	0	0	0	F	F	F	F	F
17	221	L	L	L	0	0	0	L	L	L	L	L
18	214	O	O	O	0	0	0	O	O	O	O	O
19	208	W	W	W	0	0	0	W	W	W	W	W
20	208				0	[illegible]	0					
21	208				0	1[illegible]	0					
22	73 E				0	64	0					
23	0				0	7[illegible]	0					
24	0				0	73	0					
25	0				0	71	0					
26	0				0	76	0					
27	0				0	86	0					
28	0				0	301	0					
29	0				0	[illegible]	0					
30	0					1[illegible]	0					
31	0					16[illegible]						
Mean	112	0	0	0	9.4	4[illegible].7	[illegible]	[illegible]	0	0	0	0
Ac-Ft	6861	0	0	0	541	2[illegible]11	1[illegible]4	[illegible]	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 12370

TABLE 176
DAILY MEAN DISCHARGE
PORTER SLOUGH AT PORTERVILLE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0		0	0				
2					38		0	5.5				
3					27		0	15				
4					32		0	15				
5					23		0	16				
6					2.3		0	8.7				
7					0.1		0	2.7				
8					5.0		0	6.4				
9					98		0	13				
10					77		0	17				
11					54		0	17				
12	N	N	N	N	15	N	0	17	N	N	N	N
13	O	O	O	O	1.6	O	0	19	O	O	O	O
14					0		0	23				
15					0		0	22				
16	F	F	F	F	0	F	0	11	F	F	F	F
17	L	L	L	L	0	L	0	0	L	L	L	L
18	O	O	O	O	0	O	0	0	O	O	O	O
19	W	W	W	W	0	W	0	0	W	W	W	W
20					0		0	0				
21					0		0	0				
22					0		0	0				
23					0		0	0				
24					0		0	0				
25					0		0	0				
26					0		0	0				
27					0		0	0				
28					0		12	0				
29					0		21	0				
30							0	0				
31								0				
Mean	0	0	0	0	12.9	0	1.1	6.7	0	0	0	0
Ac-Ft	0	0	0	0	740	0	65	413	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 1218

TABLE 177
DAILY MEAN DISCHARGE
PORTER SLOUGH NEAR PORTERVILLE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					0.8		0	3.6 E				
2					6.2		0	0				
3					1.9		0	0				
4					14		0	0				
5					11		0	0				
6					9.2		0	0				
7					8.0		0	0				
8					9.2		0	0				
9					51		0	0				
10					56		0	0				
11					36		0	0				
12	N	N	N	N	13	N	0	0	N	N	N	N
13	O	O	O	O	8.8	O	0	0	O	O	O	O
14					8.8		0	0				
15					9.6 E		0	0				
16	F	F	F	F	4.3	F	0	0	F	F	F	F
17	L	L	L	L	0	L	0	0	L	L	L	L
18	O	O	O	O	0	O	0	0	O	O	O	O
19	W	W	W	W	0	W	0	0	W	W	W	W
20					0		0	0				
21					0		0	0				
22					0		0	0				
23					0		0	0				
24					0		0	0				
25					0		0	0				
26					0		0	0				
27					0		3.7	0				
28					0		8.5 E	0				
29					0		0	0				
30							4.7	0				
31								0				
Mean	0	0	0	0	8.5	0	0.6	0.1	0	0	0	0
Ac-Ft	0	0	0	0	492	0	34	7	0	0	0	0

E — Estimated NR — No Record Total Discharge in Acre-Feet 533

TABLE 178

DAILY MEAN DISCHARGE
FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH

In second-feet

Date	1959			1960								
	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	N	N	N	N	N	N	N	N	N	N	N	N
14	O	O	O	O	O	O	O	O	O	O	O	O
15												
16	F	F	F	F	F	F	F	F	F	F	F	F
17	L	L	L	L	L	L	L	L	L	L	L	L
18	O	O	O	O	O	O	O	O	O	O	O	O
19	W	W	W	W	W	W	W	W	W	W	W	W
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 0

TABLE 179

DAILY MEAN DISCHARGE
FRIANT-KERN CANAL DELIVERY TO TULE RIVER

In second-feet

Date	1959			1960								
	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	194											
8	300											
9	267											
10	251											
11	249											
12	249											
13	235	N	N	N	N	N	N	N	N	N	N	N
14	225	O	O	O	O	O	O	O	O	O	O	O
15	225											
16	225	F	F	F	F	F	F	F	F	F	F	F
17	225	L	L	L	L	L	L	L	L	L	L	L
18	219	O	O	O	O	O	O	O	O	O	O	O
19	215	W	W	W	W	W	W	W	W	W	W	W
20	215											
21	215											
22	72											
23	0											
24	0											
25	0											
26	0											
27	0											
28	0											
29	0											
30	0											
31	0											
Mean	229	0	0	0	0	0	0	0	0	0	0	0
Ac-Ft	7103	0	0	0	0	0	0	0	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 7103

TABLE 180

DAILY MEAN DISCHARGE
ELK BAYOU NEAR TULARE

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12	N	N	N	N	N	N	N	N	N	N	N	N
13	O	O	O	O	O	O	O	O	O	O	O	O
14												
15												
16	F	F	F	F	F	F	F	F	F	F	F	F
17	L	L	L	L	L	L	L	L	L	L	L	L
18	O	O	O	O	O	O	O	O	O	O	O	O
19	W	W	W	W	W	W	W	W	W	W	W	W
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 0

TABLE 181

DAILY MEAN DISCHARGE
KERN RIVER NEAR BAKERSFIELD

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	172	155	174	175	264	294	443	281	1037	687	561	253
2	156	163	164	149	379	285	433	274	1066	659	554	260
3	165	156	164	143	334	292	435	276	1194	614	567	213
4	166	162	171	170	308	282	438	276	1312	608	550	215
5	159	168	157	169	290	287	437	276	1290	616	517	219
6	145	168	162	188	292	287	470	275	1346	613	506	262
7	142	171	168	191	292	289	515	276	1430	568	521	261
8	143	169	154	184	295	294	515	276	1444	587	554	248
9	148	162	160	185	378	288	513	297	1439	642	549	230
10	151	156	161	191	384	288	513	365	1441	636	560	197
11	151	162	166	218	323	285	510	523	1410	656	589	197
12	143	160	172	243	316	288	518	1424	1408	723	643	230
13	131	152	163	222	308	290	483	1440	1443	725	570	203
14	127	165	163	181	304	287	480	1252	1523	710	521	227
15	121	166	143	194	292	342	444	1198	1542	704	436	234
16	118	170	152	213	294	347	433	1222	1549	704	406	260
17	129	165	171	189	292	374	429	996	1573	707	402	218
18	130	163	167	186	298	388	415	1051	1584	728	382	216
19	127	167	169	204	301	422	421	1134	1580	719	360	216
20	125	169	174	201	290	438	414	1150	1590	664	330	227
21	128	159	175	216	293	446	385	1162	1604	652	305	217
22	128	165	195	217	292	469	364	1100	1660	623	296	219
23	128	161	201	221	273	516	378	998	1642	597	308	215
24	138	163	191	230	267	534	377	888	1596	569	326	220
25	139	163	201	251	281	596	356	762	1602	562	346	216
26	143	177	222	279	287	632	330	767	1611	557	286	200
27	143	183	182	233	277	622	310	797	967	563	269	192
28	139	171	185	223	280	598	298	823	769	564	278	201
29	147	163	180	221	291	471	291	841	753	557	287	194
30	145	160	178	215		443	277	859	675	565	264	172
31	159		181	208		448		934		579	260	
Mean	141	164	173	204	303	391	421	780	1369	634	429	221
Ac-Ft	8700	9786	10643	12516	17405	24044	25041	47966	81481	38991	28386	13154

E — Estimated NR — No Record Total Discharge in Acre-Feet 316133

TABLE 182

STREAM FLOW MEASUREMENTS AT MISCELLANEOUS SITES

Measurements of stream flow 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 (ft.)	Discharge (cfs)
Chowchilla River near Raymond (R)	San Joaquin River	SE¼, Sec. 1, T8S, R18E	1-15-60	568.86	21.6
			2- 5-60	569.25	36.6
			2-10-60	574.2	1394
			3-25-60	568.98	22.6
			4-27-60	570.65	186
			4-28-60	571.44	332
			5-25-60	568.54	11.1
Colusa Basin Drain near College City (R)	Sacramento River	NE¼, Sec. 4, T13N, R1W	10-23-59	25.94	589
			11-17-59	26.07	633
			12-22-59	24.98	287
			1- 7-60	24.42	138
			2-17-60	26.57	385
			3-18-60	25.43	184
			4-18-60	23.84	37.3
			5-16-60	28.78	1469
			7-11-60	27.03	874
			8-11-60	27.46	1031
Mill Creek near Mouth (R)	Sacramento River	NW¼, Sec. 9, T25N, R2W	1-25-60	5.56	276
			9-14-60	3.18	1.55
Reclamation District 833 near Gridley (R)	Feather River	NE¼, Sec. 2, T17N, R1E	10-30-59	14.12	48.4
			11-25-59	13.31	10.7
			12-21-59	13.08	6.36
			1-14-60	11.51	21.1
			3-25-60	13.83	16.2
			4-19-60	16.32	29.5
			5- 6-60	16.78	107
			6- 3-60	17.02	165
			6-23-60	16.94	141
			8-23-60	16.70	113
Sacramento River at Red Bluff (R)	Sacramento River	SW¼, Sec. 20, T27N, R3W	11- 5-59	3.70	4652
			2-11-60	8.96	19150
			3-16-60	4.98	8505
			4-20-60	5.26	7548
			5-26-60	5.61	8372
			9-13-60	4.83	6713
South Fork Pit River Diversion to West Valley Reservoir (S)	Pit River	NE¼, Sec. 9, T39N, R14E	2-10-60	2.34	26.7
			3-23-60	2.68	40.0
			4-27-60	1.92	12.8
Spring Creek near Keswick (S)	Sacramento River	E½, Sec. 18, T32N, R5W	2- 9-60	1.00	276
			3-28-60	0.31	26.4
			3-30-60	0.35	50.7
			9-15-60	0.24	2.43
Patterson Water District Drain near Patterson (S)	San Joaquin River	SE¼, Sec. 21, T5S, R8E	10-16-59	0.22	0.33
			10-30-59	0.20	0.09
			11-13-59	0.17	0.07
			11-27-59	0.18	0.02
			1- 6-60	0.16	0.07
			3-24-60	0.29	0.58
			3-31-60		1.01
			4-14-60	0.38	0.96
			4-29-60	0.32	0.83
			5-13-60	0.31	0.53
			5-27-60	0.30	0.87
			6-10-60	0.31	0.62
			6-27-60	0.49	0.80
			7- 8-60	0.29	0.75
			7-22-60	0.30	0.89
			8- 5-60	0.31	0.80
			8-19-60	0.32	0.72
			9- 2-60	0.30	0.70
			9-16-60	0.32	0.72
			9-29-60	0.30	0.64
Bear River near Colfax (R)	Feather River	NW¼, Sec. 27, T15N, R9E	10-19-59	4.73	5.90
			10-27-59	4.68	2.87
			11-13-59	5.12	25.8
			12-10-59	4.93	14.5
			1-13-60	4.36	0.48
			4-26-60	6.33	205
			5-12-60	6.26	201
			6-23-60	4.35	6.93
			7-21-60	5.23	60.9
			8-19-60	5.23	61.2
			9-26-60	5.02	38.6
Walthall Slough (A)	San Joaquin River	NW¼, Sec. 14, T2S, R6E	10-16-59	3.54	28.5
			10-30-59	2.77	13.1
			11-13-59	2.70	12.6
			11-27-59	2.63	5.09
			12-11-59	2.56	5.34
			12-23-59	2.54	5.81
			1- 6-60	2.50	4.37
			1-20-60	2.49	3.60
			2- 3-60	2.52	4.07
			2-19-60	2.54	5.41
			3- 4-60	2.41	3.59
			4- 1-60	2.94	21.5
			5-13-60	3.57	30.6
			6-10-60	3.37	29.0
			7- 8-60	3.27	28.9
			8- 5-60	3.40	25.1
			9- 2-60	3.67	36.8
			9-29-60	3.85	38.9

TABLE 182

STREAM FLOW MEASUREMENTS AT MISCELLANEOUS SITES (contd.)

Measurements of stream flow at points other than gaging stations or at points where flow has not been computed are listed in the following table.

Central Valley Area (contd.)

Stream	Tributary	Location	Measurements		
			Date	Gage Height (ft.)	Discharge (cfs)
Middle Creek near Upper Lake (R)	Clear Lake	NE¼, Sec. 1, T15N, R10W	1- 6-60	1.56	0.44
			2- 2-60	2.48	221
Scott Creek near Lakeport (R)	Clear Lake	SW¼, Sec. 14, T14N, R10W	1-25-60	2.96	157
			2- 2-60	3.42	265
			3-23-60	2.35	36.6
			4- 6-60	2.46	37.7
			4-26-60	1.94	16.8
			5- 9-60	1.82	10.6
			6- 2-60	1.65	7.16
			6-16-60	1.41	1.13
Dry Creek near Ione (R)	Cosumnes River	SW¼, Sec. 32, T7N, R10E	3- 7-60	3.66	16.1
			3-24-60	3.57	11.7
			4-20-60	3.41	5.68
			4-27-60	3.90	42.7
			5-13-60	3.37	3.64
			5-27-60	3.30	2.49

A - Referred to recorder installation "South San Joaquin Irrigation District No. 11 near Manteca".
R - Recorder installation.
S - Staff only.

TABLE 183

DIVERSIONS - SACRAMENTO RIVER
(Sacramento to Verona)
November 1959 through October 1960

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov-Oct Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
--TOWER BRIDGE - SACRAMENTO--	0.0														
--GAGING STATION - SACRAMENTO RIVER AT SACRAMENTO	0.6L														
City of Sacramento	0.8L	3-18" 2-20" 2-24"	2790	2450	2180	2110	2480	3080	3790	5300	5460	5320	4520	3550	43030
--AMERICAN RIVER--	1.1L														
--BACK BORROW PIT RECLAMATION DISTRICT 1000--	1.3L														
American Home Company	1.45R	1-8"						57	137	34	135	31			394
--RECLAMATION DISTRICT 1000 DRAIN (Second Bannon Slough)	2.1L														
Elmer F. Christophel	2.15L	1-8"						22	18	24	44	11	19		138
D. D. Parr	3.15L	1-6"									31				31
Rose Orchard, Incorporated	3.55R	1-16"						39	17	108	54	38	66		322
M. Owyang	4.0R	1-10"						146	64	81	244	125			660
--GAGING STATION - SACRAMENTO RIVER AT SACRAMENTO WEIR--	4.04														
--GAGING STATION - SACRAMENTO RIVER OPPOSITE SACRAMENTO WEIR--	4.2														
Reese and Oreer	4.65R	1-7"							2	56	37	2			97
George W. Reed	5.05R	1-12"						NO DIVERSION							
Mary S. Seydel Estate	5.25R	1-8"						85	7	102	78	90			362
A. R. Merkley	5.3R	1-6"						15	15	1	4	45			80
Carl and Ray Casselman (a)	5.5R	1-6"							7	38		25			70
Frank and Ruth Lang	5.55R	1-8"								11	13	10			34
Riverside Mutual Water Company	6.1L	2-18"						144	662	1390	1620	1160	616	137	5729
--RECLAMATION DISTRICT 1000 DRAIN #3--	6.85L														
Fred C. Jones	7.5L	1-8"							10	62	45	14			131
A. Marty and C. Inderkum	7.7R	1-8"						2	7	98	123	102	37	37	406
Candido Rosa	7.8L	1-10"							44	33	26	9	33		145
E. D. Willey	7.9L	1-10"							82	66	51	74			273
A. Marty and C. Inderkum	8.3R	2-8"							101	177	197	106			581
Fong Shee Farm	9.3L	1-10"							157	185	140	64	113	2	661
Henry Amen and E. C. Peabody	9.35R	1-14"						120	237	237	261	157	192		1204
Fred C. Jones	9.8L	1-8"								10	24	13			47
Carl Casselman	9.9R	1-12"								31	84	96	86		297
Lloyd M. Robbins	10.25L	1-14"							42	26	52	54	14		188
Thomas M. Erwin	10.65R	1-12"						65	90	75	122				352
Edward Russell	10.75L	1-12"							14	130	165	104			413
W. A. Ten Eyck	11.1R	1-12"							95	161	139	164	11		570
--ELKHORN FERRY--	11.9														
Woodland Farms, Incorporated	12.0R	4-36"	750	294				7990	12500	12500	15600	13000	1360	1210	65200
Thomas O'Connor Estate	12.5R	1-12"									94	73	27		194
William Plumb, Jr.	12.7R	1-6"								55	52				107
Lewis Thornton	12.95L	1-4"								4	5	4	3	1	17
S. C. Farms, Incorporated	13.1R	1-12"								57	136	43			236
S. C. Farms, Incorporated	13.25R	1-12"	13	6			21	101	180	83	151	154	54	21	784
Elkhorn Mutual Water Company	14.1L	1-24 1-30"						695	2230	2680	2820	2390	1200	386	12400
Joseph Veress	14.25R	1-14"						49	233	219	218	170	95		984
A. Bianchi	15.1L	1-4"									1	1			2
W. F. Becker	15.1R	1-16"						26	46	197	193	87			549
Natomas Central Mutual Water Company	16.0L	1-24" 2-32" 2-38"						3900	5890	6310	6720	6560	1720	101	31200
Hershey Estate	16.27R	1-20"						44	4	67	107	88			310
Sacramento River Ranch	16.62N	1-14"	21					43	4	295	43	297	11		714
Sacramento River Ranch	17.0R	1-14								203		3	77		283
Frank and Ruth Lang	17.4R	1-16"							17	210	65	184			476
Jose Alves and Sons	17.75R	1-16"								471	532	256			1259
Jose Alves and Sons	18.0R	1-20"						148	192	942	801	545	62		2690
H. C. Lauppe	18.2L	2-10"	2					64	302	326	317	157	50	1	1219
Burton H. Lauppe	18.45L	1-14"	1	1					57	150	64	110			383
Layton Knaggs	18.7R	1-24"						NO DIVERSION							
E. L. Kerns	18.7L	1-12"		52	16			101	212	197	208	215	40		1041

TABLE 183

DIVERSIONS - SACRAMENTO RIVER
(Sacramento to Verona) (contd.)
November 1959 through October 1960

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov -Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
SACRAMENTO TO VERONA															
Totals			3577	2803	2196	2110	2501	16940	27460	33400	37280	32150	10410	5446	176300
Average cubic feet per second			60	46	36	37	41	285	447	561	606	523	175	89	243
Monthly use in per cent of annual			2.0	1.6	1.3	1.2	1.4	9.6	15.6	18.9	21.2	18.2	5.9	3.1	

a Formerly listed as Lucy Casselman.

TABLE 184

DIVERSIONS - SACRAMENTO RIVER
(Verona to Knights Landing)
November 1959 through October 1960

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov -Oct Acre Feet
			Nov	Dec.	Jan.	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct.	
--GAGING STATION - SACRAMENTO RIVER AT VERONA--	19.6L														
--CROSS CANAL RECLAMATION DISTRICTS 1000 AND 1001--	19.6L														
Arthur Brown	*(0.05S)	1-10"	9	1				88	27	201	236	159	124	60	905
Natomas Central Mutual Water Company	*(1.0S)	1-24" 1-36"						1780	2990	2820	3320	2950	1030	200	15100
Natomas Central Mutual Water Company	*(2.0S)	1-20" 2-24"						2930	6170	5960	6730	6790	2820		31400
B. J. Ukropina	*(3.3N)	2-24"						873	1600	1250	1200	1220	82		6225
B J. Ukropina	*(3.35N)	1-16"						379	367	719	703	819	125		3112
Roy C. Osterli and Harlan Van Dyke	*(3.45N)	1-14" 1-36"						1650	2310	2220	2560	2550	505	159	11950
--FEATHER RIVER--	20.9L														
--SACRAMENTO SLOUGH--	21.2L														
Sacramento River Ranch	21.5R	1-16"						361	700	685	722	679	429		3576
Roy Michelotti	22.1R	1-10"								74	155	98	52		379
C. Fred Holmes	22.2L	1-14"								57	93				150
Sacramento River Ranch	22.5R	1-24"						NO DIVERSION							
--GAGING STATION - SACRAMENTO RIVER AT FREMONT WEIR, EAST END--	22.58R														
Anthony Furlan	26.8L	1-16"						NO DIVERSION							
A. F. Johnston	26.8L	1-16"								32	17	3			52
--GAGING STATION - SACRAMENTO RIVER AT FREMONT WEIR, WEST END--	27.9R														
Lowell Edson	28.1R(0.8)	1-5"							12	48	59				119
Hershey Estate	28.1R(1.3)	1-18"						119	114	367	316	264	70		1250
Gus Inglin	28.1R(2.4)	1-12"							16	25	20	15	22	3	101
Gus Inglin	28.2R	1-6"							1	5	16	7	1		30
Anthony Furlan	28.2L	1-12"								17	5				22
Ralph White	28.6L	1-8"							17	54	21	35	3		130
Hershey Estate	29.0R	1-12" 2-16"							156	593	541	491			1781
Russell Brothers	29.2R	1-12"								42	156	48	29		275
Sebastian Tturralde	29.9L	1-12"									97	43	27	1	168
Leo Giovanetti	30.2L	1-6"						16	13	16	22	13	9		89
Anthony Furlan	30.5L	1-14"								83		30			113
M R. Richardson	30.7R	1-10"							62	23	82	43			210
Albert Nusz	30.75R	1-6"							7	6	9	4	1		27
Alice E. West	30.9L	1-6"									47	30	9		86
A. O. Huston, Jr. and Mrs. E. Huston	31.5R	1-12"								27	53	74			154
M. R. Richardson	31.75R	2-14"						80	24	181	260	131	2		678
M. Alonso	31.8L	1-6"						NO DIVERSION							
Sutter Mutual Water Company (Portuguese Bend)	32.0L	1-20" 2-24"						2080	2820	2670	2720	2660	1270		14220
J. F. Waters and E. Furlan	32.5L	1-12"						18	3	50	24	38	16	2	151
Colliers Brothers	32.5R	1-10"								56	134	85	30		305
W. H. Zeigler and H Carlson	33.2L	2-10" 1-12"						46	501	506	389	436	197		2075
J. G. Knox	33.35L	1-10" 1-12"								38	74	39			151
Clarence Du Bois	33.5R	1-14"								31	93	89	35	3	251
P. K., G. J., and W. N. Leiser and L. J. Mansager	33.75L	1-14"						176	675	618	635	499			2603
Neil Wilson	33.85R	1-4" 1-6"	21	8				16	10	55	54	44	41	19	268
--SOUTHERN PACIFIC RAILROAD BRIDGE--	33.95														
VERONA TO KNIGHTS LANDING															
Total			30	9				10610	18600	19530	21560	20390	6929	453	98110
Average Cubic Feet per Second			1					178	303	328	351	332	116	7	135
Monthly use in percent of Annual								10.8	19.0	19.9	22.0	20.8	7.0	.5	

* Mile 19.6L Cross Canal. Distance from Sacramento River and bank are shown in parentheses.

TABLE 185

DIVERSIONS - SACRAMENTO RIVER
(Knights Landing to Wilkins Slough)
November 1959 through October 1960

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov	Dec.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
--GAGING STATION - SACRAMENTO RIVER AT KNIGHTS LANDING--	34.0L														
--KNIGHTS LANDING BRIDGE--	34.1														
--COLUSA BASIN DRAIN--	34.15R														
E. E. Nuttal	34.15R (0.2)	1-6"								12	6		1		19
River Farms Company	34.5R	1-16" 1-20" 1-24"						1190	842	1660	1210	1230			6132
Wallace Ernat and A. Johnson	34.85L	1-8"							33	28	64	34			159
Walter Raymond	35.2L	1-12"								100	40				140
Johnson and Anderson	35.8L	1-10						18		25	24	13		12	92
J. Goffitzer	35.85L	1-6"								7	31				38
Frank Rossi	36.2L	1-12" 1-14"						27		169	50	113			359
Earl H. Gray	36.45L	1-12"						NO DIVERSION							
A. Moroni	36.8L	1-6"						NO DIVERSION							
--RECLAMATION DISTRICT 787 DRAINAGE PLANT--	37.0R														
Albert Nuttall	37.2L	1-14"								16	32				48
Maybelle J. Bundock	37.75L	1-8"								27	24	30	4		85
Robert and Eugene Reel	38.4L	1-10"						NO DIVERSION							
C. L. Reel	38.8L	1-10"						NO DIVERSION							
C. L. Reel and Sons	39.4L	a 1-10"							48	54	79	30			211
C. L. Reel and Sons	39.8L	1-10"							58		39	14			111
William Duffy, Jr.	39.9L	1-8"								33	12	19			64
Sutter Mutual Water Company (State Ranch Bend)	40.6L	2-24 1-36"						3720	6130	6090	6240	5980	1220	69	29450
River Farms Company	41.0R	1-14" 1-16"						136	96	465	633	491	89		1910
Buell Ranch	41.0L	1-6"						NO DIVERSION							
Mrs. N. Lorenzetti (b)	42.2L	1-6"						NO DIVERSION							
Mrs. N. Lorenzetti	42.3L	1-8"							64		41				105
El Dorado Ranch	42.3R	1-14" 1-16"						257	779	456	822	415	36		2765
El Dorado Ranch	43.1R	1-12"						NO DIVERSION							
Reclamation District 2047	43.1R	3-50"						12000	11900	13400	13300	12400	1410		c 64410
Kramer Ranch	43.1L	1-12"								98	20				118
Bill Erdman	43.4R	1-10"							95	276	175	162			708
--RECLAMATION DISTRICT 108 DRAINAGE PLANT--	44.0R														
John Clauss	44.2L	1-18"						320	146	308	458	88	19		1339
John Clauss	45.6L	1-14"						NO DIVERSION							
--GAGING STATION - STATION RIVER ABOVE R. D. 108 DRAIN PLANT--	46.4														
John Clauss	46.45L	1-16"						359	26	397	511	234			1527
J. R. Menle	46.5L	1-14" 1-20"							201	65	305	94			665
Mary Miatt Properties, Incorporated	48.7L	2-22"						249	1170	849	1050	904	372		4594
G. J. Miatt	49.0L	1-14"						70		275	19	197			561
G. J. Miatt	49.7L	1-14"						70	370	356	358	392	112		1658
Reclamation District 108 (Tyndall Mound)	51.1R	2-24" 1-36"						3420	6310	5760	5820	5460	261		27030
William Crawford	51.2L	2-16"						939	1080	1000	1090	623	376		5108
Fritz Erdman	51.9R	1-12"							79	79	79				237
Thomas Nelson	52.0L	1-16"							8	98	175	126	34		441
George Van Ruiten	52.3L	1-10"								18	64	77	35		194
George Van Ruiten	52.9L	1-12"								2	168	103	29		302
Reclamation District 108 (Howell Point)	53.8H	1-14" 1-20" 1-36"	15				262	543	767	963	944	1230	329	673	5726
George Van Ruiten	53.9L	1-14"						NO DIVERSION							
Broomiceside Farms	55.1L	1-26"								14	278	103			395
Broomiceside Farms	56.3L	1-16"						NO DIVERSION							
Reclamation District 108 (Boyer Bend)	56.4R	1-12" 1-18" 2-22" 1-36"	170				571	1850	1890	3610	3390	2730	951	124	15290
Jacob Miller	56.65R	1-12"						NO DIVERSION							
Broomiceside Farms	56.9L	1-20"	111	91				284	1160	1160	1270	1210	356		5642
L. M. Miller	57.0R	1-10"						NO DIVERSION							
William Crawford	57.25L	1-24" 1-30"						1850	2340	1690	2280	1670	717		10556

TABLE 185

DIVERSIONS - SACRAMENTO RIVER
(Knights Landing to Wilkins Slough) (contd.)
November 1959 through October 1960

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov.	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
Clifton Lamb	57.5L	1-16"		578	231				395	416	424	426	154		[illegible]
Maud Hellson	58.3L	1-14"						22	32	214	69	152	27		516
Alex Grant	58.9L	1-16"						NO DIVERSION							
Reclamation District 108 (South Steiner Bend)	59.15R	1-10" 1-16"							99	547	409				1055
Lamb Brothers	59.8L	1-14"								236	142				378
W. A. Larner	60.4L	1-14" 1-16"						121	620	684	730	762	483	32	3438
L. A. Butler	60.5L	1-12"								284	197				481
Reclamation District 108 (North Steiner Bend)	61.3R	1-16"						NO DIVERSION							
Richard Moore	61.5R	1-12"					24	12							36
L. A. Butler	61.8L	1-12"								91	60	22			173
Wayne Hine	62.3R	1-10"						28		135	72	57	24		316
John Mack	62.3L	1-14"						120	644	568	588	567	150		2637
Jack Locvich Estate	62.6R	d 1-10"						4	37	56	23				120
KNIGHTS LANDING TO WILKINS SLOUGH Totals			296	669	231		857	27610	37420	42790	43820	38160	7188	910	200000
Average cubic feet per second			5	11	4		14	464	610	719	714	622	121	15	275
Monthly use in per cent of seasonal			0.1	0.3	0.1		0.4	13.8	18.7	21.4	21.9	19.1	3.6	0.5	

a A 10" unit replaces the 12" unit.

b Formerly listed as Buell Ranch.

c Includes 19599 acre feet of water delivered to River Farms Co. as follows: April 3764, May 3841, June 4300, July 3949, August 3601, and September 144.

d A 10" unit replaces the 6" unit.

TABLE 186

DIVERSIONS - SACRAMENTO RIVER
(Wilkins Slough to Colusa)
November 1959 through October 1960

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov	Dec	Jan.	Feb	Mar	Apr.	May	June	July	Aug	Sept	Oct.	
--GAGING STATION - SACRAMENTO RIVER BELOW WILKINS SLOUGH--	62.9R														
Reclamation District 108 (Wilkins Slough)	63.2R	5-42" 1-48"						16100	17300	20800	19300	17800	3840		95140
R. L. Young	63.3L	1-12"	285	109						30	99	65			588
Meister Ranch	63.65L	1-8"								20	104	11	50		185
Sutter Mutual Water Company	63.75L	6-42" 2-48"						27100	37800	44900	43800	45500	13300	698	213100
Robert E. Seamans	63.9L	2-14"						189	390	509	593	434	21		2136
--TISDALE WEIR RECORDER STATION--	64.2L														
Lloyd, Beverly and Fred Durst	64.3R	1-14						10	17	83	69	47	19	56	301
Frank Lamb	64.35L	1-14"							279	188	162	162	58		849
Tisdale Irrigation and Drainage Company	64.4L	1-8" 1-12"						342	811	831	823	760	46		3613
Van Horn Ranch	64.9R	1-14"							82	172	170	44			468
Juan Velasquez	a 65.1R	1-4"						PLANT REMOVED							
Fred Schohr	65.6R	1-16"						NO DIVERSION							
Walter Ettl	65.7L	1-8"								104	139	137	8		388
J. L. Browning	66.4R	1-18"						NO DIVERSION							
Tisdale Irrigation and Drainage Company	67.1L	1-16" 1-22"						771	1600	1670	1870	1990	336		8237
Newhall Land and Farming Company	67.5L	1-12" 1-24"						1390	1640	2860	3190	3180	390		12650
--RECLAMATION DISTRICT 70 DRAINAGE PLANT--	68.8L														
Meridian Farms Water Company #5	68.8L	1-24"						NO DIVERSION							
J. L. Browning	69.0R	1-14" 1-22"						NO DIVERSION							
C. Yerxa and A. Andreotti	69.2R	1-10" 2-16"	25	75	106			962	1160	1200	1280	828	287	107	60[illegible]
--EDDY'S FERRY SITE (GRIMES)--	69.45														
J. E. Hollenbeck	69.8R	1-4"						NO DIVERSION							
Tuvrle Kilgore	70.0R	1-12"						NO DIVERSION							
H. P. Daly	70.4L	1-10"								96	[illegible]4	54	24		[illegible]
Beckley, Ritchie, Poundstone and Andreotti	70.4R	1-16" 1-20"						NO DIVERSION							
Meridian Farms Water Company #4	71.1L	1-24"						922	1290	1210	1150	1200	782		6554
A. B. Armstrong	71.9R	1-14"	6	12					280	98	76	[illegible]	1[illegible]	56	585

TABLE 186

DIVERSIONS - SACRAMENTO RIVER
(Wilkins Slough to Colusa) (contd.)
November 1959 through October 1960

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept	Oct.	
H. and A. Andreotti	72.1L	2-14"						667	1260	1310	1450	1420	229		6336
C. T. Proh	73.6R	1-10"	49	8					62	75	97	116	125	50	582
Meridian Farms Water Company #3	74.8L	1-18"							41	859	856	848	447		3051
L. B. Westfall	75.3R	1-10"	53						241	31	124	62	26		537
J. H. Yates Estate	76.1L	1-10"							75	125	65	98			363
Robert Chesney	76.15L	1-10"						141	345	311	325	308			1430
M. S. Davis and C. K. Anderson	76.2L	1-8"								18	15	18			51
Steidlmayer Brothers	76.5R	1-16"								200	44	140	79		463
Olive Percy Davis, et al	77.8R	b 1-12"							164	455	294	39		2	954
R. X. Ranch Company	77.9L	1-16"							114	309	223			68	714
Olive Percy Davis, et al	78.15R	1-30"	15					1570	2040	2060	1900	2010	490	129	10210
Olive Percy Davis, et al	78.75R	2-12" 1-16"						471	232	423	344	118	98	23	1709
Olive Percy Davis, et al	78.8R	1-24"						1390	1920	2170	2210	1970	103		9763
Steidlmayer Brothers	78.9R	1-12"	216												216
C. E. Reische	79.0L	1-10						5	78	68	69	23			243
Gerrans Orchard	79.3R	1-10"						25	26	21	55		2	28	157
J. J. Hanklna	79.5L	1-8"						NO DIVERSION							
A. M. Wood	79.7L	1-10"								54	38	23	3		118
--GAGING STATION - SACRAMENTO RIVER AT MERIDIAN	79.85														
Meridian Farms Water Company #1 and #2	80.0L	1-10" 1-20" 1-24"						2410	3220	4760	4170	4620	1470	5	20650
Gerrans Orchard	80.3R	1-8"						26	25	24	44			9	128
Tomlinson Brothers and E. J. Burrows	81.5L	1-16"							399	623	658	642	320		2642
Tomlinson Brothers	81.8L	1-16"					3	15	281	187	253	237	22		998
F. T. Reische and L. P. Wood	82.5L	1-12"							3	5	31	30			69
Emerson Hixon	82.7L	c 1-16"								23	67	1	25		116
Steidlmayer Brothers	83.0R	1-20"	552	5					14	274	415	257	526		2043
J. E. Clark	83.3L	1-14"							1	32	39	80	6		158
J. E. Clark	83.5L	1-10"						NO DIVERSION							
--BUTTE SLOUGH OUTFALL GATES--	84.0L														
Steidlmayer Brothers	84.0R	1-8"									65				65
Reclamation District 1004	85.3L	1-8"								17	18	21	2		58
Steidlmayer Brothers	85.6R	1-12"							179	195	111	19			504
Clifford Reichel	85.8L	1-10"								37	40	7	13	1	98
Lydell Peck	86.1L	1-8"							8	62	35			43	148
W. H. Halsey	86.1R	1-12"	2						71	62	66	41	119	64	425
Howell Davis	86.2R	1-18"											186		186
Sciortino Brothers	86.8L	1-8"						21	14	22	48			20	125
Kathleen Wilbur	86.9R	1-10"						31	97	81	70	11	3	20	313
Kathleen Wilbur	87.4R	1-10"						34	19	25	36	15		33	162
W. H. Halsey	87.45L	1-6"							10	11	8				29
Mrs. D. Locvich	87.6L	1-8"							9	10					19
Swinford Tract Irrigation Company	87.7R	1-12"						31	49	46	95	7		22	250
Frank Azevedo	88.0R	1-6"						6		6	1	5			18
Amy K. Lange	88.2R	1-2"						NO DIVERSION							
Nagel and Locvich	88.2L	1-10"							35	10	56	2	26	3	132
Mayfair Farms Incorporated	88.7L	1-14"							82	337	181	3		65	668
Colusa Irrigation Company	89.2R	1-20"						87	176	267	285	122	18		955
Grace S. Arnold	89.24L	1-8"							72	79					151
Reclamation District 1004	89.25L	1-18"	645	615	221				621	708	801	798	560	670	5639
W. H. Halsey and M. Yerxa	89.26L	1-12"	257	178				12	232	137	256	234		194	1500
WILKINS SLOUGH TO COLUSA															
Totals			2105	1002	327		3	54730	74860	91300	88810	86600	24100	2366	426200
Average cubic feet per second			35	16	5		0	919	1220	1534	1448	1412	405	39	587
Monthly use in per cent of seasonal			.5	.2	.1		0	12.8	17.6	21.4	20.8	20.3	5.6	.6	

a Plant removed.
b A 12" unit replaces the 16" unit.
c A 16" unit replaces the 6" unit.

TABLE 187

DIVERSIONS - SACRAMENTO RIVER
(Colusa to Butte City)
November 1959 through October 1960

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov-Oct Acre-Feet
			Nov	Dec	Jan	Feb.	Mar	Apr	May	June	July	Aug.	Sept	Oct	
--COLUSA BRIDGE - GAGING STATION - SACRAMENTO RIVER AT COLUSA--	89.4R														
D. Boggs	89.7L	a 1-16"							138						138
Roberts Ditch Company	90.7R	1-18"						251	381	685	744	472	321	114	2968
I. G. Zumwalt Company	91.0R	1-6"						NO DIVERSION							
Paul R. Westfall	91.1L	1-3" 1-8"								19	18		5		42
I. G. Zumwalt Company	91.6R	1-12"						14	91	29	72			83	289
--COLUSA WEIR RECORDER STATION--	92.4L														
Andrew Martin	92.5L	1-8"								30	28	18			76
W. H. Halsey	92.6R	1-8"							20	19				11	50
Andrew Martin	92.7L	1-4"						PLANT REMOVED							
W. H. Halsey	93.0R	1-8"						16	12	3	29			10	70
Wilson Lovvorn (b)	93.15R	1-24"						272	991	1080	1100	1100	312		4856
Paul R. Westfall	93.2L	1-3"						7			8				15
Paul R. Westfall	93.6L	1-3" 1-10"								11		19	5		35
Tuttle Land Company	94.3R	1-20"						299	327	256	218	24		61	1185
Roger Wilbur	95.25L	1-12" 1-18"						599	1130	996	1070	668	81	221	4725
Azro H. Lewis Estate	95.6L	1-16" 1-20"	278	299	78				501	598	703	436	150	132	3175
J. G. Griffin	95.75L	1-15"						NO DIVERSION							
J. G. Griffin	95.8L	1-26"		8				7	111	296	171	20			586
Robert Hunter and A. L. Scott, Jr.	95.85L	1-18"						33	135	284	145	207			804
I. G. Zumwalt Company	96.8R	1-15"						30	230	34	272		42	141	749
H. Weitman	97.7R	1-14"	15						80	28	88	97	79	64	451
Rio Bonito Farms	97.75L	1-6"								118	67	52			237
Rio Bonito Farms	98.0L	1-10"								9	8	8			25
Roger Wilbur	98.3R	1-10"						6	19	99	89	6	54	39	312
Otterson and Boggs	98.6L	1-15"							402	475	550	293	85		1805
D. Boggs	98.8L	1-18"	13					231	103		121	18	37	6	529
Elizabeth Reimer	99.0R	1-14"							67	164	109	131	7		478
J. E. Boggs	99.1L	1-16"							76	18	131	7			232
Hollis Sartain	99.25L	2-16"	770	773	88			130	1070	842	1050	1110	266	256	6355
L. W. Seaver	99.3L	1-10" 1-12"	4					245	77	40	273	196	52		887
Helen Forry	99.8L	1-16"	1					60	3	61	156	116	8		405
Saint Patrick Home Ranch	101.1R	1-20"							84	463	520	151		15	1233
Jane Foster Carter	101.8L	1-14"						2	35	220	312	322	1		892
Guy M Morse	102.8R	2-12" 1-20"						289	571	557	573	427	84		2501
C. B. Carter	102.9L	1-16"				150			2	219	312	213	31		927
--GAGING STATION - SACRAMENTO RIVER OPPOSITE MOUNTON WEIR--	103.3														
--MOULTON WEIR RECORDER STATION--	103.6L														
Charles W. Welch	103.7R	1-16"										886	5		891
Charles W. Welch	103.8R	2-20" c 1-24"									251	3880	22	6	4159
C. W. Tuttle	103.9R	1-12" 1-18"	28	102	47			453	703	917	717	712	53	4	3736
I. G. Zumwalt Company	104.8L	1-12"							52	62	60		50		224
I. G. Zumwalt Company	105.3L	1-12"						NO DIVERSION							
Lawrence Boyd	105.5L	1-10"									6		6		12
Thousand Acre Ranch (H. W. Keller)	106.0R	1-14"						153	334	315	269	212	83	196	1562
Olive Percy Davis, et al	106.5R	2-16"						193	298	783	825	773	47		2919
Princeton Ranch Company	110.0R	1-12"							111	93	99			99	402
H. Womble	110.1L	2-16"							42	230	259	159			690
I. G. Zumwalt Company	110.7L	1-3" 1-12"							24	24	47	47			142
--PRINCETON FERRY--	112.0														
I. G. Zumwalt Company	112.05L	1-12"							21	5	24		24		74
Reclamation District 1004	112.1L	2-30" 1-50"						5370	9910	10500	12100	10500	2490	96	50970
Princeton-Codora-Glenn Irrigation District	112.4R	3-24"						3500	4350	4470	4060	4450			20830
I. G. Zumwalt Company	112.6L	1-10"							102	59	134			108	403
Emerson B. Estes	114.9R	1-5"						NO DIVERSION							

TABLE 187

DIVERSIONS - SACRAMENTO RIVER
(Colusa to Butte City)
November 1959 through October 1960

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
Mark Munson	115.3R	1-4"								31	16	21		40	108
Opal L. Cushman	115.5L	1-12"						20	15	18	26	18		14	111
COLUSA TO BUTTE CITY															
Total			1109	1182	213	150		12140	22620	25130	27830	27770	4400	1716	124300
Average cubic feet per second			19	19	3	3		204	369	422	454	453	74	28	171
Monthly use in percent of seasonal			.9	.9	.2	.1		9.8	18.2	20.2	22.4	22.3	3.5	1.4	

a A 16" unit replaces the 10" unit.
b New installation 1960.

c A 24" unit replaces the 14" unit.

TABLE 188

DIVERSIONS - SACRAMENTO RIVER
(Butte City to Red Bluff)
November 1959 through October 1960

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr.	May	June	July	Aug	Sept	Oct	
--BUTTE CITY BRIDGE--	115.8														
--GAGING STATION - SACRAMENTO RIVER AT BUTTE CITY	115.8L														
Mark Munson	115.8R	1-4"							1	5	3	2	4	2	17
F. A. Brown	115.85L	1-14"						46	29	41	105	68	43		332
Victor Trubowitch (a)	115.9R	1-6"						NO DIVERSION							
Manuel Torres	116.37L	1-12"						NO DIVERSION							
Cronin Estate	116.9L	1-16"						NO DIVERSION							
Victor Trubowitch (b)	117.1R	1-10"									44	42	44	9	139
W. F. Wright, Jr.	117.5R	1-6"	5						5	42	47	8	5	4	117
W. N. Stewart, Jr.	120.3R	1-10"								14					14
Robert T. Millar	122.3R	1-10"						NO DIVERSION							
Ben Giesbrecht	122.9R	1-10"								20	10	19	11	11	71
Clarence Reed	123.7R	1-6"						NO DIVERSION							
P. K. Priesen	123.8R	1-4"									1				1
Princeton-Codora-Glenn Irrigation District	123.9R	5-24"						7480	6970	8580	8920	7050	4340	2240	45580
Provident Irrigation District	124.2R	2-24" 1-36" 2-46"						5790	2770	8180	7380	6220	103		30440
J. Bertapelle	124.3R	1-12"	62	34				184	187	194	288	222	166	159	1496
Joe Thomas	125.5R	1-10"						No Diversion							
Duard P. Geis	128.3R	1-6"	54						48	42	48	55	5		252
P. S. Reager, Jr.	130.75R	1-8"	9					5	23	57	41	42	15		192
--GAGING STATION - SACRAMENTO RIVER AT ORD PERRY--	130.8R														
O. D. Simmons	131.0L	1-4"						PLANT REMOVED							
Harry E. Nichols, Jr.	133.45L	1-6"								74	108	69	5		256
Harry E. Nichols, Jr.	133.5L	1-5" 1-6"								15	12	20	8		55
--STONY CREEK--	138.0R														
--BIG CHICO CREEK--	141.5L														
M & T, Incorporation and Parrott Investment Company	141.5L	1-20" 4-24"	85			84	24	787	1330	2600	4330	4420	990	230	c 14870
Fred Wagner	141.5L	1-4"						NO DIVERSION							
--OLD CHICO LANDING RAILROAD BRIDGE SITE--	142.1														
Paul E. Arneberg	142.8R	1-14"						NO DIVERSION							
Leonard Morning	143.6R	1-10"							10	52	63	49	17		191
Levi Bentz	143.8L	1-6"						12		12	61	43	39		167
Glenn Beagle	146.3L	1 2-6"								3	28	3	4		38
Leonard Morning	146.8R	1-10"	29					42	31	24	24	46	48	12	256
Holly Sugar Corporation	148.9R	1-2" 1-10"						NO DIVERSION							
--GAGING STATION - SACRAMENTO RIVER AT HAMILTON CITY (GIANELLA BRIDGE)--	149.5L														
James Ralph III	149.5L	1-12'							79	131	88	137	90		525
J. A. and A. E. Lewis	149.7L	1-12'						NO DIVERSION							
James A. Lewis	150.0L	1-10"							96	68	68	88		14	334
V. G. Strain	150.8R	1-12' 1-16'						154	179	471	1120	803	277	286	3290
Joe E. Johnson	152.2R	1-6"							7	14	12	14	7	1	55
Robert Edwards	152.4R	1-6"						NO DIVERSION							
Nowers Ranch	15[illegible].4L	1-8'								17	21				38

TABLE 188

DIVERSIONS - SACRAMENTO RIVER
(Butte City to Red Bluff) (contd.)
November 1959 through October 1960

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov.	Dec	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
. Guy H. Boone (e)	154.5R	1-8"								17	6	26	26		75
sie and McClain	154.6R	1-5"							3	7	2				12
G. Spang	154.7R	1-4"								2	2	1			5
into Irrigation District	154.75R	1-36" 1-48"	10500	5840			187	10000	10100	9610	9850	9970	9480	10100	85640
nn-Colusa Irrigation istrict	154.8R	4-44" 1-54" 4-66" 3-72" 1-100"	31500	13700			2180	98900	124000	135000	139000	128000	55600	40200	f 768100
ian Otten	155.6R	1-4"	6					9	6	20	23	15	7	1	87
Phieffer	155.7R	1-2½"						NO DIVERSION							
Williams	156.0R	1-6"	1				1	3	10	19	13	12	8	1	68
H. Penner	156.1R	1-6"	15	4			17	21	24	41	50	36	27	19	254
L. Shearman	156.85R	1-3"						1	2	4	4	4	2	1	18
esh Ranch	158.8R	1-10"							62	172	83	99	91	28	535
athan Garst	161.0L	g 1-4"									13	7			20
athan Garst	161.45L	2-8" 1-14"								322	728	648	94		1792
athan Garst	161.7L	1-2						1							h 1
yd Hygelund	165.4L	1-14"									153	98	88		339
AGING STATION - SACRAMENTO IVER AT VINA BRIDGE--	166.5R														
L. Dietz	166.7R	1-3"						NO DIVERSION							
sell L. Deckman	166.8R	1-2"								2	2	3	3	2	12
eat Peterson	166.9R	1-6								7	11	5	2	2	28
J. McFadden	168.5L	1-8"							24	9	33	47			113
F. O'Connor	168.85R	1-10"	20	19		1		62	4	47	21	47	39	17	277
F. O'Connor	168.9R	1-6"	14	13				42	3	31	14	31	26	11	185
iano Bros.	169.8L	1-10"						20	43	90	55	99		8	315
itz Thomsen	173.05L	1-8"	6					12	53	84	88	56	12	23	334
O. T. Wood	173.7L	1-8"						8	15	17	19	11			70
ro Bros.	175.5R	1-4"					6	6	10	14	22	16	6	18	98
ro Bros.	176.6R	1-4"	4					5	4	10	8	12	7	8	58
n Taylor	188.5L	1-1½"						2	4		2	1	1		10
ville Johnson	188.51L	1-2½"						NO DIVERSION							
ry Kerber	188.8L	1-10"							237	197	178	213	51	126	1002
C. Osborn	189.1R	1-6"							7	4	8	10	8		37
mond National Corp.	191.5R	1-8"	164	170	170	158	169	164	170	164	170	170	164	170	2003
hur Stanley	196.5L	1-2½"						NO DIVERSION							
R. Harris	196.55L	1-1½"							1		2	2	1		6
and E. Erickson	196.6L	1-5"						8	14	19	23	5	8		77
mond National Corp.	197.0L	1-8"						34	72	113	139	122	108		588
l Fahle	197.1L	1-3"						1		1	1	1			4
Gilliland	197.5L	1-1¼"										1	1		2
Gaumer	198.0L	1-3"						4	8	21	13	17	13	8	84
Gaumer	198.3L	1-3"						1		21	14	18	11	8	73
TE CITY TO RED BLUFF															
als			42470	19780	170	243	2584	123800	146600	166700	173600	159200	72100	53720	961100
rage cubic feet per second			714	322	3	4	42	2081	2384	2802	2823	2589	1212	874	6978
thly use in per cent of seasonal			4.4	2.1	0	0	0.3	12.9	15.2	17.3	18.1	16.6	7.5	5.6	

Formerly listed as L. D. Ohlson.
Formerly listed as L. D. Ohlson.
An additional 25760 acre feet was received from Butte Creek as follows: November 2027, December 2259, January 704, April 3106, May 4352, June 3937, July 2598, August 2382, September 2003, and October 2392.
One 6" unit replaces a 4" unit.

e New installation 1960.
f Additional 18997 acre feet diverted by gravity from Stoney Creek as follows: March 6676, April 9510, May 2810, and June 1.
g Temporary installation for 1960.
h Non-agricultural use.

TABLE 189

DIVERSIONS - SACRAMENTO RIVER
(RED BLUFF TO REDDING)

November 1959 through October 1960

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug.	Sept	Oct	
--GAGING STATION - SACRAMENTO RIVER NEAR RED BLUFF--	198.6														
C. T. Loftus	205.1L	1-4"	8	2			3	14	16	31	34	25	28	10	171
D. Mills	207.3L	1-8"	6					45	46	75	137	111	83	64	567
D. Mills	207.5L	1-12"						72	86	245	275	259	217	132	1286
La Mirada Olive Company	209.0L	1-4"	8						4	45			25	27	109
J. F. Nunes	213.0R	1-7"						NO DIVERSION							
R. B. Richmond (a)	213.5L	1-3"						3	10	17	12	17	16	16	91
J. F. Nunes	216.0R	1-5"	2								8	5	15		30
W. A. Hunaeus	216.4L	1-3"	5							7	17	12	9	4	54
Haakonson Brothers	217.5L	1-5"	15					13	37	101	38	48	20	8	280
J. L. Haskins	217.9L	1-6"	9						5	128	155	94	22	55	468
Rio Alto Rancho	221.0R	1-12"						66	28	325	579	494	383	213	2088
C. D. Draucker	228.0R	1-16"							37	66	156	103	52	3	417
Floyd Leonard	233.5L	1-6"						10	4	43	42	30	19		148
U. S. Plywood Corporation	234.0R	1-8"	255	264	245	172	203	223	137	253	264	238	182	196	2632
William Menzel Company, Incorporated	240.2L	1-12"	16	4			2	76	259	299	220	270	220	174	1540
Lou Gerard	240.3L	1-2"					7	7	7	7	8	8	7	7	58
John Gladwell	240.4L	1-4"						NO DIVERSION							
Anderson-Cottonwood Irrigation District	240.5L	4-16"	45	866				2260	2260	3540	3700	3630	3110	2280	21690
Riverview Golf Course	240.8L	1-4"	2	2		1	2	10	24	34	34	39	24	12	184
J. H. Hein Company	241.9L	1-4" 1-6"						NONAGRICULTURAL USE							
Anderson-Cottonwood Irrigation District	246.0R	Gravity	14700	9390				19300	21900	22900	23700	22000	20900	19900	b 174700
City of Redding	246.25L	2-6"						NO DIVERSION							
Maybell Diestelhorst	246.3R	1-8"	14						15	55	74	70	33	16	277
City of Redding	246.7R	3-8"	246	205	186	186	219	247	281	582	718	620	490	294	4274
--GAGING STATION - SACRAMENTO RIVER AT KESWICK--	250.5														
RED BLUFF TO REDDING															
Totals			15330	10730	431	359	436	22350	25160	28750	30170	28070	25860	23410	211100
Average cubic feet per second			258	175	7	6	7	376	409	483	491	457	435	381	1533
Monthly use in per cent of seasonal			7.3	5.1	0.2	0.2	0.2	10.6	11.9	13.6	14.3	13.3	12.2	11.1	
SACRAMENTO RIVER - SACRAMENTO TO REDDING															
Totals			64920	36180	3568	2862	6381	268200	352700	407600	423100	392300	151000	88020	2197000
Average cubic feet per second			1091	590	58	50	104	4506	5749	6848	6897	6394	2537	1435	3026
Monthly use in per cent of seasonal			3.0	1.6	0.2	0.1	0.3	12.2	16.1	18.6	19.3	17.9	6.9	4.0	

a Formerly listed as F. L. Jelly.
b Includes 29,670 acre-feet of spill as follows: November 14700, December 9400, April 2560, May 2100, and October 910.

TABLE 190

DIVERSIONS - COLUSA BASIN DRAIN
November 1959 through October 1960

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov	Dec	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct	
--GAGING STATION - COLUSA BASIN DRAIN AT KNIGHTS LANDING (KNIGHTS LANDING OUTGALL GATES)--	.2[illegible]														
River Farms Company	.3L	1-10" 1-20"						NO DIVERSION							
--RIDGE CUT AT KNIGHTS LANDING--	0.4R														
John J. Anderson	1.45R	1-10" 1-20"	20	38			3	426			247				734
John C. Cooling	4.2R(0.1)	1-16"						262	24	185	276	153			90[illegible]
J. E. Taylor	4.2R(0.7)	1-12"						NO DIVERSION							
B. C. and T. D. Tolson	4.2R(0.8)	1-12"								51	100	19			170
Layton Knaggs (a)	4.65R(0.3)	b 2-24"							1640	138[illegible]	2010	2240	485		7755
Layton Knaggs	7.2R	c 3-16" 1-20"	93	58					931	17[illegible]	2050	2220	592	21[illegible]	7855
George E. Youngmark	8.8R	1-14" 1-16"						217	818	904	898	762	113		3712
Hershey Estate	11.15R	1-16" 1-18"						16	1280	1570	1560	144[illegible]	373		6239
Hershey Estate	13.75R	1-16"						NO DIVERSION							
C. M. Mumma	14.75R	1-16"						177	265	263	270	272	9		1256
--COUNTY LINE BRIDGE--	15.2[illegible]														
J. V. Doherty	15.5R	1-12"							235	204	234	180	25		878
M. T. Emmert	15.75R	1-12"		186											186
H. B. West, Jack Hughes and Dr. R. C. Aest	18.1R	1-15" 1-20"						NO DIVERSION							
James Iriart	18.5R(0.8)	d 1-15"						98	494	514	584	587	124		2403
--RECLAMATION DISTRICT 108 GRAVITY DRAIN--	19.9L														
Reclamation District 108	19.9L	1-16" 1-24" 1-30"						2060	3460	3480	3790	3160	238		161[illegible]
James Iriart	20.[illegible]R	e 1-14"	235	9			7	211	312	388	323	311	376	190	2362
B. W. Whitmire and D. S. Adams	21.35R	2-16"	97	28				361	288	273	224	188			1459
Albert Brandenburg	22.15R	1-14"						72	438	452	490	501	255		2208
--GAGING STATION - COLUSA BASIN DRAIN NEAR COLLEGE CITY--	22.5L														
Aileen Browning Armstrong	22.75R(0.1)	1-16"						NO DIVERSION							
--SOUTHERN PACIFIC RAILROAD BRIDGE--	23.6														
Balsdon Ranch	24.6R(0.3)	1-16"						NO DIVERSION							
Balsdon Ranch	24.6L(0.3)	b 1-14" 2-16"	1	31	[illegible]	6	10	392	1310	904	672	652	9	60	3952
Henry J. Olin	24.6L(0.31)	1-12"						15	88	164	146	126	72	21	632
Luta King	25.1R	1-6"						NO DIVERSION							
Gertrude M. Sherer	25.3L	1-16"								121	107	118	32	4	382
Gertrude M. Sherer	25.5R	1-10"						NO DIVERSION							
--GRIMES - COLLEGE CITY CAUSEWAY--	25.5														
Fred Schutz	25.9L	1-16" 1-20" 1-24"	133	123				330	1670	1400	907	716	492		5783
Roy E. Kitts	26.4R(0.1)	1-18"						75	277	226	204	145	8		936
C. W. and M. F. Struckmeyer	27.25L(0.3)	1-16"						32	188	313	560	376	67	6[illegible]	16[illegible]
William P. Wallace Ranch	28.[illegible]	1-12"						162	738	674	743	697	126		3140
--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"					5	170	640	511	483	647			2456
Fred Wilkins	29.8R(1.0)	1-14"						NO DIVERSION							
Glenn-Colusa Irrigation District	29.8R(1.4)	1-20" 2-38"					94	1170	199	1360	1020	655	47		4545
Olive Percy Davis, et al	32.1R	1-16"						NO DIVERSION							
Federal Fish and Wildlife Service	32.6R	1-16"	252	219	34						83	41	183	278	1140
J. G. Olvey	32.6L	1-14"	95	13				100	570	224	410	404	26		1842
Arata Brothers	32.9L	1-8"	41	14									1	8[illegible]	136
Richard Moore	33.[illegible]	1-12" 1-16"	15	16									5		36
Federal Fish and Wildlife Service	[illegible].65R	1-15" 1-20"	542	347	54			373	1290	886	1[illegible]90	121	927	882	76[illegible]1
--GAGING STATION - COLUSA BASIN DRAIN AT HIGHWAY 2[illegible]--	37.[illegible]														
Federal Fish and Wildlife Service	37.0L(0.1)	1-14"												9[illegible]	90
I. G. Zumwalt Company	39.2L	8-20"	.14				2	240[illegible]	278[illegible]	49[illegible]	44[illegible]0	416[illegible]	1[illegible]	1130	2150[illegible]

TABLE 190

DIVERSIONS - COLUSA BASIN DRAIN (Contd)
November 1959 through October 1960

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre-Feet
			Nov	Dec.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
East Williams Land Company	39.2R	1-16"	21								8		64	49	142
J. N. Cave	39.98R	1-10"						NO DIVERSION							
Leon Paulo and L. W. Seaver	40.0L	3-16"	44	34			19	413	1320	1020	1310	1420	333		5915
J. R. Cave	40.5R	1-14"						NO DIVERSION							
Lloyd W. Seaver and F. J. Byington	41.5L	f 4-16"					22	386	755	1120	1240	1130	101	12	4766
Coffman and Campbell	42.6L	1-16"						NO DIVERSION							
Louis G. Sutton	42.7R	1-16"						NO DIVERSION							
Watt Brothers	43.2L	g 1-12" 1-16"					14	246	552	355	569	421	102		2259
Watt Brothers	43.4R	1-12"						NO DIVERSION							
S. Ash	45.0L	2-16"		199				699	473	494	892	754	23		3534
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	46.75L	1-24"						NO DIVERSION							
Lloyd Kahn	47.5L	1-6"	25	3	10										38
Lloyd Kahn	47.5L(0.4)	2-16"					28	428	476	573	527	637			2669
Charles W. Welch	48.7L(0.2)	1-12"						NO DIVERSION							
Charles W. Welch	48.7L(0.3)	1-12"						NO DIVERSION							
Charles W. Welch	48.7R(0.8)	h 1-12" 1-14" 1-16" 2-20"	859	727	110			2480	3520	3050	3660	3940	1250	1300	20900
Del Valley Farms, Incorporated	49.1R	1-10"	67	32	5								11	172	287
Lynn and Bohne	49.58L(0.9)	1-10" 1-12"					9	264	310	186	335	300	26		1430
J. W. Guerin and W. J. Thompson	49.59R	1-12"	102	11									2	73	188
Nelphenstine Rice Lands	49.69L	i 1-18"	43	18	5			442	893	872	779	794	109	45	4000
E. Butler, E. Meyer and J. Jones	49.7L	d 1-16"	7	4	4			144	248	303	284	233	1	41	1269
Dan Fonseca (j)	50.2R	1-10"						5	30	37	57	27	17	57	230
Longwell Acres	50.5L(0.3)	1-10"	74	18			1	24		42	21	16	3	97	296
Manuel Barrett	Opp. 53.6R(1.3)	1-12"						62	210	297	273	97			939
Princeton-Codora-Glenn Irrigation District	54.2L	2-18"						1530	2170	2260	2270	2050			10310
John S Lopes	54.9R	1-12"						NO DIVERSION							
J. P. Cardoza	55.0R	1-4"	17	11			11	17	52	38	33	27	5	16	227
--LATERAL HIGHWAY - BUTTE CITY TO WEST SIDE--	57.5														
Provident Irrigation District (Willow Creek Plant)	Opp. 57.5R(2.4)	1-24" 1-36"		169				444	405	1197	313	513			3041
Jamieson Ranches, Incorporated (k)	58.4R	1-12" 1-16"	3	2				171	282	375	468	441	38		1780
Joe Navarro	59.0R	1-18"		20				273		476	739	254	52		1814
Provident Irrigation District (Drain #55)	Opp. 61.2R(1.5)	Gravity	2340	1180				3230	6150	4340	6270	5350	5040	2200	36100
Dorothy Foote	62.4L	1-16"						NO DIVERSION							
Provident Irrigation District	Opp. 62.8L(2.5)	2-16"		2				731	439	502	528	625	40	94	2961
Terrill Knight	63.2L	1-12"		5			8	238	329	365	460	358	12		1775
Demmer and Bohach	63.7L	1-12"	26	29											55
John M. Demmer and Mary R. Rohach	64.1L	1-12" 1-14"	76	27				170	351	288	347	330	64		1652
Provident Irrigation District (Colusa Drain)	64.2R(0.1)	1-20" 1-24"	234					2300	3330	2160	2310	2260	802	115	13510
Provident Irrigation District (Drain #13)	Opp. 64.2R(2.6)	1-16" 1-20" 1-24"	21					960	1480	1510	1510	1460	555	90	7581
Provident Irrigation District (Drain #13)	Opp. 64.2R(2.6)	Gravity	562	604				1060	1710	1070	1860	1570	742	760	9445
Ray Funke	64.21R(2.6)	1-1"							1						1
COLUSA BASIN DRAIN Total			[illegible]	4177	277	[illegible]	231	[illegible]	45420	45970	51030	46940	15[illegible]	814[illegible]	249700
Average cubic feet per second			1.3	[illegible]	4	[illegible]	4	434	740	772	832	765	2[illegible]0	133	344
Monthly use in per cent of seasonal			2.5	1.[illegible]	.1	[illegible]	.1	10.[illegible]	18.[illegible]	18.4	20.4	18.8	6.2	3.3	

* Carries return water from Colusa Basin along west border of 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 Plant moved from Mile 4.35R in 1960.
b Replaces a 20" unit.
c Two 16" units and one 20" unit were installed in 196[illegible].
d Replaces a 14" unit.
e Replaces a 1[illegible]" unit.
f One 16" unit installed 1960.
g One 12" unit was added in 1960.
h Temporary installation.
i Previously listed as 16".
j New installation in 19[illegible].
k Formerly listed as Jamieson Codora Ranch.
[illegible]ock water.

TABLE 191

DIVERSIONS - KNIGHTS LANDING RIDGE CUT

November 1959 through October 1960

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov	Dec	Jan	Feb.	Mar.	Apr	May	June	July	Aug	Sept	Oct	
--STATE HIGHWAY 24 BRIDGE--	0.3														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	0.7														
E. L. Wallace	0.8R	1-16" 1-20"						119	144	217	1040	532	143	16	2211
M. R. Richardson	0.82L	1-14"						98	387	373	368	408	26		1660
--RECLAMATION DISTRICT 730 DRAINAGE PLANT #2--	3.2R														
Ralph W. Pollock	3.5L	Gravity								121	184	28			333
W. K. Lowe	4.3R	1-16"						9	42	106	69	76	15		317
Ralph W. Pollock	4.55L	1-16"						NO DIVERSION							
Albert Bacchini	4.7R	1-6"							20	19	14	14	9		76
Hershey Estate	4.75L	1-24"						NO DIVERSION							
Hershey Estate	5.25R	1-16"						NO DIVERSION							
--WEST LEVEE YOLO BYPASS--	6.3														
Hershey Estate	6.3R	Gravity						NO DIVERSION							
Hershey Estate	6.3	Gravity						696	171	147	215	203	146		1578
Sacramento River Ranch	6.3L	Gravity						775	1440	1610	2040	1570	19		7454
KNIGHTS LANDING RIDGE CUT Totals			0	0	0	0	0	1697	2204	2593	3930	2831	358	16	13630
Average cubic feet per second			0	0	0	0	0	29	36	44	64	46	6	0	19
Monthly use in per cent of seasonal			0	0	0	0	0	12.5	16.2	19.0	28.8	20.8	2.6	0.1	

* 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.

TABLE 192

DIVERSIONS - YOLO BYPASS
(East Borrow Pit or Tule Canal)
November 1959 through October 1960

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov	Dec	Jan	Feb.	Mar	Apr.	May	June	July	Aug	Sept	Oct	
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	0.8S	1-14"						97				97			194
Swanston Land Company	0.5S	1-14"						228	542	491	514	488	24		2287
--GAGING STATION - YOLO BYPASS ABOVE SACRAMENTO BYPASS--	0.0														
Swanston Land Company	1.8N	1-16" 1-20"							523	770	581	940	252		3066
Ensher, Alexander and Barsoom	2.4N	1-20"							128	237	288	238	123	38	1052
--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) Totals								325	1193	1498	1383	1763	399	38	6599
Average cubic feet per second								5	19	25	22	29	7	1	9
Monthly use in per cent of seasonal								4.9	18.1	22.7	21.0	26.7	6.0	0.6	

* Mileage is given northerly or southerly from North Levee of Sacramento Bypass. Diversions from East Borrow Pit of Yolo Bypass are primarily from water diverted through Knights Landing Ridge Cut.

TABLE 19[illegible]

DIVERSIONS - LOWER BUTTE CREEK AND BUTTE SLOUGH
November 1959 through October 19[illegible]

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov	Dec.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
								LOWER BUTTE CREEK							
Reclamation District 1004	3.2R	1-14"						NO DIVERSION							
Reclamation District 833	3.3L	1-16"							38	351	44[illegible]	456	121		1411
Colusa Shooting Club	4.1L	1-16"	7[illegible]	5						87	17		247	465	897
West Butte Farms Company	4.25L	1-18"								407	295	4	5		711
Reclamation District 1004	4.3R	1-20" 1-24"	4[illegible]	303	[illegible]				975	898	97[illegible]	941	420	169	5216
El Anzar, Incorporated	5.7L	1-12"								143					143
Field and Tule	7.1L	1-16"						NO DIVERSION							
White Mallard Duck Club	11.8R	Gravity	789	[illegible]									1	197	1009
White Mallard Duck Club	11.8R(0.5)	a 1-12"	136	532	137			108	309	299	351	353	23		2248
Reclamation District 1004	11.8R(2.6)	Gravity	4900	4350	912			[illegible]34	1200	1590	2460	1070	18[illegible]0	484[illegible]	23760
Reclamation District 1004	Opp. 14.4R([illegible].2)	Gravity	634	926	213			38[illegible]	763				231	182[illegible]	4973
Compton Hills Ranch	Opp. 14.4R(0.4)	1-16"						NO DIVERSION							
--GRIDLEY ROAD BRIDGE--	15.4														
Butte Basin Gun Clubs	15.6L	Gravity	3000	3000											6[illegible]
J. Ken Sexton and Son	19.3R	1-16"	41					38	67	42	88	90	62	84	512
--BIGGS - AFTON ROAD BRIDGE--	19.4														
J. Ken Sexton and Son	Opp. 19.6R(0.8)	1-14"						NO DIVERSION							
Homar and Nomar A. Charles	Opp. 20.7R(0.8)	2-16"	86	56				637	495	683	1060	1210	134		4661
McGowan Brothers	Opp. 20.9R(0.5)	1-16"							259	291	354	328			123[illegible]
McGowan Brothers	21.0R	1-20"						NO DIVERSION							
E. McPherrin	21.1L	1-16" 1-20"					210	219	12[illegible]0	1420	1430	1420	154		6[illegible]53
Mary Lou Nulen	Opp. 21.4R(1.0)	1-16"						NO DIVERSION							
McGowan Brothers	Opp. 22.4R([illegible].7)	1-16"								107	84	185	52	61	48[illegible]
McGowan Brothers	Opp. 22.4R(1.1)	1-16"			11[illegible]			128	70	153	184	166	2		818
--RICHVALE - BUTTE CITY ROAD BRIDGE--	22.5														
McGowan Brothers	23.0R	1-16" 1-20"						NO DIVERSION							
Harris Lands	23.0L	1-16"	16	2				37	91	18[illegible]	144	161	97	66	820
McGowan Brothers	Opp. 23.[illegible]R(0.75)	b 2-16"						265	1020	905	913	712	59		3864
McGowan Brothers	Opp. 23.5R(1.2)	1-16"							43	54	41	25			163
McGowan Brothers	Opp. 24.0R([illegible].5)	1-14" 2-16" 1-20"						1710	490	831	708	585	39		4363
McGowan Brothers	24.5R(1.4)	1-16"						45	206	198	216	219	24		908
Ruth Baldwin and Charles K. Layton	Opp. 2[illegible].6L(0.6)	2-16"						NO DIVERSION							
Arrowhead Ranch	28.0R	d 1-16" 2-12"						77	84	98	86	90	65		500
Arrowhead Ranch	29.2L	1-12"					106						6	[illegible]7	16[illegible]
--WESTERN CANAL DAM--	30.3														
	**							BUTTE SLOUGH							
--SACRAMENTO RIVER JUNCTION--	0.[illegible]														
Butte Slough Irrigation Company	0.[illegible]	Gravity													e
M. Marty	0.3W	1-10"						[illegible]	[illegible]2	177	173	118	74	[illegible]	66[illegible]
--BUTTE CREEK--	[illegible].6E														
Mrs. Mamie M. Smith	[illegible].[illegible]E	1-7"						NO DIVERSION							
Joe Marty	1.[illegible]W	1-12"						[illegible]	[illegible]	21	1[illegible]	12	12		[illegible]8
Mrs. Mamie M. Smith	1.4E	1-8"								101	1[illegible]2	113	3		17[illegible]
Fred Barke	1.9W	1-14"								14[illegible]					142
--MAA[illegible] BRIDGE--	[illegible].1														
[illegible]. A. Lawley	[illegible].[illegible]W	1-14"								233	[illegible]				[illegible]
J. F. [illegible]ith	3.[illegible]W	1-10"							5			[illegible]			[illegible]
Pearl [illegible]arr[illegible]d Alli[illegible]e Brewer	[illegible].[illegible]W	1-10"						4	[illegible]	2	8	7	4[illegible]		[illegible]
F. A. [illegible]	[illegible].[illegible]W	1-10"							[illegible]	[illegible]	4	[illegible]			64
Gra[illegible] and Fieth	4.[illegible]W	1-[illegible]"								4	[illegible]	4			13
F. A. [illegible]	4.1W	1-1[illegible]"						2	1[illegible]	4	[illegible]	2[illegible]	1		118
W. [illegible]. Harke[illegible]	4.8W	-12"								[illegible]		41			213
[illegible]. H. Hen[illegible]en	[illegible].1W	-12"							[illegible]	[illegible]	4[illegible]	1[illegible]4	54	1[illegible]	3[illegible]8
Edward E. [illegible]	[illegible].[illegible]W	-1."							1	4					
[illegible] BUTTE SLOUGH															
Total			[illegible]	[illegible]	14[illegible]		31[illegible]	42[illegible]4	[illegible]	[illegible]	[illegible]	8482	[illegible]734	78[illegible]	[illegible]38
Average [illegible] feet per [illegible]			[illegible]	1	.4		[illegible]	[illegible]	[illegible]	[illegible]	1[illegible]	[illegible]8	[illegible]	128	[illegible]1
Monthly [illegible] per [illegible] of [illegible]			[illegible].8	[illegible]	2		.4	[illegible]	[illegible]	[illegible].[illegible]	14[illegible]	[illegible]	[illegible]	[illegible]	

[illegible] Mileage [illegible] Butte [illegible] with Butte Slough at Mile [illegible].

e Mileage [illegible] Butte [illegible] with Sacramento River at Mile 8[illegible].

a [illegible] the 1." and [illegible]" [illegible].

b [illegible] 16" [illegible] was a temporary installation during [illegible].

[illegible] 14" and [illegible]" [illegible] were temporary installations during [illegible].

[illegible] were [illegible] during [illegible].

e [illegible] in Butte Slough derived from Butte Creek, is controlled by outfall gates at junction with Sacramento River and thereby retained in Butte Slough [illegible] large inflows and West Borrow Pit of Butte Bypass near "[illegible] Bridge". The outfall gates are maintained by the Department of Water Resources and are operated cooperatively with the Butte Slough Irrigation Company. See Butte Bypass diversions.

TABLE 194

[illegible] - SUTTER BYPASS [illegible] AMENTS [illegible]
November 1[illegible] through October 19[illegible]

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
	*						West Borrow Pit of Sutter Bypass (a)								
--SOUTHERN PACIFIC RAILROAD BRIDGE--	2.[illegible]														
[illegible] Fred [illegible]olme	b-8.[illegible]R	1-18"						NO DIVERSION							
--STATE HIGHWAY 24 CAUSEWAY--	12.7														
Sutter Mutual Water Company	17.5R	1-18"							169	175	190	87	227	47	89[illegible]
--SOUTH LEVEE OF TISDALE BYPASS--	[illegible]8.[illegible]R														
--RECLAMATION DISTRICT 1[illegible] GRAVITY DRAIN--	19.3R														
G. Guisti and Sons	23.7R	1-1[illegible]" 1-24"						125	125	283	12[illegible]	138	[illegible]44		35[illegible]
Butte Slough Irrigation Company Limited	25.[illegible]R	Gravity						271	523	544	479	440			[illegible]
Butte Slough Irrigation Company Limited	28.[illegible]R	Gravity					14[illegible]	1180	1250	1920	2110	213[illegible]	113		9866
Fred Tarke	[illegible]8.6R	1-4" 1-12"							3	28	111	4[illegible]			18[illegible]
G. A. Frye	29.0R	1-7"							43	31	19				93
--STATE HIGHWAY [illegible] BRIDGE--	29.1														
Fred Tarke	29.[illegible]R	1-10"						20	10	1[illegible]	31	8			79
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	29.2S														
	**						Est Borrow Pit of Sutter Bypass (a)								
R. E. Hughes	b [illegible].45S	1-1[illegible]"							381	37[illegible]	373	432	179		172[illegible]
T. H. Richards	[illegible].5S	1-18"					12	138	372						522
--WILLOW SLOUGH--															
R. E. Hughes #7	b [illegible].5N	1-1[illegible]"							80[illegible]	106[illegible]	116[illegible]	1[illegible]90	154		4266
--RECLAMATION BOARD DRAINAGE PLANT #1--	1.4N														
Cliff P. Childers	* 1.4N([illegible].3)	1-16"						158	568	559	512	469	19		2285
Cliff P. Childers	1.4N(1.29)	1-16"						NO DIVERSION							
E. H. Christensen and Sons	1.4N(1.32)	c 1-14" 1-18"						383	845	724	861	867	113		3793
E. H. Christensen and Sons	1.4N(1.45)	1-14"						116	43	187		147			493
E. H. Christensen and Sons	1.4N(1.75)	1-16"						170	831	457	466	602	100		2626
E. H. Christensen	1.4N(2.8)	1-14"								166		136	58		360
E. H. Christensen	1.4N(3.3)	d						NO DIVERSION							
E. H. Christensen	1.4N(3.5)	1-18"						234		108	160	321			823
E. H. Christensen	1.4N(3.9)	1-12"						125	22	77	133	144			5[illegible]
E. H. Christensen	1.4N(4.[illegible])							NO DIVERSION							
E. H. Christensen	1.4N(4.1)	1-16"								54	12	67	52		185
E. H. Christensen	1.4N(4.29)	1-16"								387	276	485	16		e 1164
E. H. Christensen (f)	1.4N(4.3)	1-[illegible]"							3	49	22	21			95
Rai Brothers	1.4N(4.3)	1-12"						NO DIVERSION							
E. H. Christensen (f)	1.4N(4.33)	1-16"						83		296	281	298	177	41	1176
E. H. Christensen	1.4N(4.35)	1-14"						182	770	724	728	708	85		3197
R. E. Hughes #6	b 1.[illegible]N	1-1[illegible]"							33	131	129	27	149	511	980
R. E. Hughes #5	b 2.[illegible]N	1-14"							73	8	11[illegible]	88	150	52[illegible]	959
Neal Westrope	b 4.[illegible]N	1-14" 1-18"							141		292				433
--STATE HIGHWAY 24 CAUSEWAY--	[illegible].3N														
Neal Westrope	b 4.[illegible]N	[illegible]-4"						72	416	353	331	378	113		1663
Ira Mulligan	5.7N	[illegible]-1[illegible]"							59	308	184	2			553
R. J. Hughes #[illegible]	b 5.[illegible]N	1-14"							24	41	313	259			757
J. Etcheverry	[illegible].[illegible]N	1-14"								247	274	6[illegible]	13		7[illegible]
[illegible]. Orrick	b [illegible].[illegible]N	1-1[illegible]" 2-1[illegible]"	[illegible]	141	26				453	593	607	575	14[illegible]	1[illegible]	[illegible]
Ira Mulligan	[illegible].[illegible]N	[illegible]-[illegible]"								211	86				297
--GILSIZER SLOUGH--	8.[illegible]N														
D. [illegible]. Orrick	8.[illegible]N [illegible]	[illegible]-16"						NO DIVERSION							
Trepps and Middleton	b [illegible].[illegible]N	[illegible]-1[illegible]"						54	437	[illegible]	560	517	145		[illegible]
Trepps and Middleton	b [illegible].[illegible]N	1-1[illegible]"	[illegible]					12	6[illegible]	48	41	1[illegible]	265	34[illegible]	87[illegible]
--RECLAMATION BOARD DRAINAGE PLANT #2--	[illegible].[illegible]N														
Trepps and Middleton	X 1.[illegible]N [illegible]	1-12"						57	446	432	446	4[illegible]2	[illegible]		188[illegible]
Gerling Brothers	[illegible].N[illegible]	1-[illegible]"						12	18	[illegible]		2			154
Gerling Brothers (f)	1.[illegible]N[illegible]	[illegible]-[illegible]"						[illegible]	672	[illegible]	18	663		[illegible]	[illegible]
Sutter Extension Water District	1.[illegible]N[illegible].0	[illegible]-[illegible]" [illegible]-3"	[illegible]2	[illegible]	1[illegible]		64	936	[illegible]8	1[illegible]	23[illegible]	216	1[illegible]	244	13[illegible]
Ira Mulligan	[illegible].N[illegible].3	1-1[illegible]"						12	[illegible]	[illegible]	241	1[illegible]4			876

TABLE 194

DIVERSIONS - SUTTER BYPASS AND SACRAMENTO SLOUGH (contd.)
November 1959 through October 1960

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov	Dec.	Jan	Feb.	Mar	Apr	May	June	July	Aug.	Sept	Oct.	
Ira Mulligan	10.0N(2.5)	1-16"								173	114	156			443
Bridge Investment Company	10.0N(2.6)	1-16" 1-20"	151	6			21	380	938	1250	1080	1320	383	14	5543
Bridge Investment Company	10.0N(2.65)	1-14" 1-20"						98	842	1310	1110	1180	843	141	5524
Bridge Investment Company	10.0N(3.0)	2-12"							4	663	28	63	53		811
Percy Davis	10.0N(4.5)	1-12"	17					104	38	144	153	161	76	111	804
Sutter Extension Water District	10.0N(6.7)	1-20"						412	151	88	101	322			1074
Federal Fish and Wildlife Service	b 11.5N	1-12"	312	355	29						221	312	261	284	1774
Federal Fish and Wildlife Service	b 16.3N	1-24" Gravity	2280	1160	349				1100	1430	1620	1560	1340	1440	12280
R. A. Schnabel	b 16.4N	g 1-8"	1	19					25	44	18	19	21	15	162
--WADSWORTH CANAL--	16.5N														
R. A. Schnabel	ψ 16.5N(1.0)	1-16"						NO DIVERSION							
Fred S. Betty	16.5N(1.0)	1-10"	48					6	45	41	92	53	30	35	350
H. D. Brown	16.5N(1.35)	1-20"						273	28	147	123				571
A. H. Muns	16.5N(1.36)	1-16"						278	581	466	501	603	152		2581
Vesper Kellogg	16.5N(1.5)	1-14"		2						92	81	79	53	48	355
Albert Thomasen	16.5N(1.7)	1-16"						155	345	347	352	352	71		1622
--STATE HIGHWAY 20 BRIDGE--	16.5N(2.0)														
Epperson, Kennedy, and Joaquin	16.5N(2.5)	1-10"						91	234	217	261	217	78		1098
Clara Farrington	16.5N(2.51)	1-10"						NO DIVERSION							
Youill Joaquin	16.5N(3.0)	1-14"						140	271	297	418	374	31		1531
Gerald F. Raub	16.5N(3.6)	1-16"								26	41	23	18	35	143
--GAGING STATION - WADSWORTH CANAL AT BUTTE HOUSE ROAD--	16.5N(3.6)														
--RECLAMATION BOARD DRAINAGE PLANT #3--	16.7N														
Fred S. Betty	8 16.7N(0.9)	1-8"								72	61	76	57		266
Fred S. Betty	16.7N(1.0)	1-10"	8	15				20	14	24	47	21	26	17	192
Fred S. Betty	16.7N(1.3)	1-14"							350	307	425	437	201		1720
Fred S. Betty	16.7N(1.4)	1-16"						NO DIVERSION							
Mrs. H. C. and C. H. Epperson	16.7N(1.49)	1-10"								100	2				102
Mrs. H. C. and C. H. Epperson	16.7N(1.5)	1-20"						NO DIVERSION							
Mrs. H. C. and C. H. Epperson	16.7N(1.51)	1-16"						159	945	768	806	795	332		3805
T. Bihlman	16.7N(1.85)	1-14"							361	309	454	440	242		1806
Mrs. H. C. And C. H. Epperson	16.7N(2.65)	1-8"						NO DIVERSION							
Elden Tarke	16.7N(3.0)	1-16"						40	309	297	375	340	79		1440
Edward Dean	b 16.7N	1-12"	67	77	17				66	87	80	26	88	82	590
Edward Dean	b 16.75N	1-16"						NO DIVERSION							
Epperson, Myers, DeWitt and Middleton	19.1N	1-12"								322	378	399	9		1108
T. J. Madden	19.9N	1-16"						101	398	363	368	398	68		1690
--STATE HIGHWAY 20 BRIDGE--	19.98N														
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	20.0N														
							Sacramento Slough								
SUTTER BYPASS Totals			3686	2513	558		243	6097	17880	23810	25420	25010	697	6523	122000
Average cubic feet per second			62	41	9		4	112	291	400	414	408	163	106	168
Monthly use in per cent of seasonal			3.0	2.1	.5		.2	5.5	14.7	19.5	20.8	20.5	7.9	5.3	

* 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.

ß Plant is on main drain canal for Drainage Plant No. 1 that joins East Borrow Pit of Sutter Bypass at Mile 1.4N. Figure in parentheses indicates distance along drain from East Borrow Pit.

γ Plant is on drainage canal for Drainage Plant No. 2 that joins East Borrow Pit at Sutter Bypass at Mile 10.0N. Figure in parentheses indicates distance along drain from East Borrow Pit.

ψ 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.

δ 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 which enters East and West Borrow Pits via Butte Creek, Butte Slough and Wadsworth Canal.

b Indicates area irrigated is within Bypass.

c The 14" unit was installed in 1960.

d A 14" unit and a 16" unit were removed in 1960.

e Includes an undetermined amount of well water.

f New installation in 1960.

g Replaces a 14" unit

TABLE [illegible]

[illegible] REGION - FEATHER [illegible]

[illegible]ember [illegible] through [illegible]tober [illegible]

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct.	
Walt[illegible]	[illegible]	1-[illegible]								3	[illegible]	10[illegible]	[illegible]		[illegible]
Walter [illegible]ymo[illegible]	1.[illegible]	1-1[illegible]									[illegible]	11	[illegible]		[illegible]
William Baird [illegible]	1.[illegible]	1-1[illegible]									[illegible]	1[illegible]			43
Kipp and [illegible]	[illegible]	1-1[illegible]						104	[illegible]	1[illegible]	124	[illegible]	6		[illegible]
Walter R[illegible]ymon[illegible]	[illegible]	[illegible]								45	00	40			1[illegible]
Lingge-Ell[illegible]	[illegible]	1-1[illegible]							62	115	117	104	[illegible]		47[illegible]
Walter Raym[illegible]	4.0[illegible]	1-1[illegible]							17	[illegible]	20				[illegible]
Mrs. Aileen Marty	4.5[illegible]	1-1[illegible]	1[illegible]	1[illegible]				6[illegible]	7[illegible]	1[illegible]	1[illegible]	[illegible]	[illegible]	6	6[illegible]
D. R. Toledo and Son	[illegible]	1-1[illegible]	[illegible]					21	4[illegible]	[illegible]	110	110	4[illegible]	[illegible]	4[illegible]
White Oak [illegible]nch	[illegible]	1-14"	[illegible]	79				1[illegible]	533	[illegible]1	[illegible]1	[illegible]	[illegible]44	1[illegible]	207[illegible]
A. L. Naymore Estate	[illegible]	1-10"	[illegible]	[illegible]				6	[illegible]1	163	172	17[illegible]	1[illegible]3	[illegible]	[illegible]07
M. Scheiber	7.7L	1-10"						6	101	149	134	147	164	11	712
--NICOLAUS BRIDGE--	[illegible]														
--GAGING STATION - FEATHER RIVER AT NICOLAUS--	4.2L														
Leo Muller	9.25L	1-[illegible]						1	1	46	[illegible]3	4		[illegible]	[illegible]
T. H. Richards	[illegible]	1-[illegible] 2-[illegible]							[illegible]	1440	1[illegible]30	1550	1100	[illegible]	[illegible]
Leslie A. and Carl A. Scheiber	10.[illegible]	1-4"	[illegible]	[illegible]											44
--BEAR RIVER--	12.0L														
Garden Highway Mutual Water Company	[illegible]	[illegible]-20" 1-24"						1660	2740	3550	[illegible]	2710	[illegible]		1[illegible]40
Plumas Mutual Water Company	17.5L	[illegible]-20"						505	1080	1810	1800	1640	[illegible]	310	131
Tudor Mutual Water Company	[illegible]	[illegible]-30" 1-35"					54	1010	1090	2840	22[illegible]0	[illegible]130	[illegible]	225	[illegible]4
G. C. Shannon	[illegible]	1-18"					5	46	14	57	43	26			191
Oswald Water District	21.4R	[illegible]-16"						244	427	[illegible]	596	434	[illegible]		[illegible]29
DiGiorgio Fruit Corporation [illegible])	21.9L	1-4"	NO DIVERSION												
--GAGING STATION - FEATHER RIVER BELOW SHANGHAI BEND--	[illegible].0R														
--YUBA RIVER--	27.3L														
--GAGING STATION - FEATHER RIVER AT YUBA CITY--	[illegible].0R														
--6TH STREET BRIDGE--	[illegible].0														
--10TH STREET HIGHWAY BRIDGE--	[illegible]														
Thomas, DiFiore, Campici and Perrucci	30.9R	1-2 1 [illegible]	17					[illegible]	17	20	20	13	[illegible]	11	10[illegible]
Richard Wilbur	[illegible]	1-10"									21	[illegible]			73
A. A. Sligar and Son	[illegible].1L	1-[illegible]"	NO DIVERSION												
Henry Everett	33.2R	1-4"	NO DIVERSION												
G. T. Prindiville	33.[illegible]R	1-10"					[illegible]	124	[illegible]	[illegible]	11[illegible]	[illegible]1			43[illegible]
J. L. Sullivan, Jr.	[illegible].9R	31-8" 1-10"						114	[illegible]	[illegible]8	161	[illegible]			[illegible]4
Sutter Extension Water District	[illegible].1R	1-36" [illegible]-42"						[illegible]30			2140	3110			[illegible]4[illegible]6
La Finca Orchard	[illegible]	1-[illegible]"	NO DIVERSION												
--BONCUT SLOUGH--	4[illegible].7L														
[illegible] (0.4L)		1-[illegible]"					11	144	1[illegible]	[illegible]	343	11[illegible]	[illegible]		14[illegible]2
[illegible] (1.3L)		1-[illegible]"					6	1[illegible]		[illegible]	32	1[illegible]			114
W. J. Dairey	[illegible]	1-[illegible]"					[illegible]	[illegible]	20	11[illegible]	110				[illegible]3[illegible]
W. [illegible] Madsen	44.0[illegible]	1-4"	PLANT REMOVED												
Oskar W. Nobe[illegible]	44.[illegible]	1-7"								1[illegible]	1[illegible]				[illegible]1
Hemlinger Enterprise	46.4L	1-[illegible]" 1-4"						[illegible]	[illegible]10	1[illegible]0	1[illegible]0	10[illegible]0	1[illegible]	10[illegible]	[illegible]
W. I. [illegible], Jr.	[illegible]	1-6"	NO DIVERSION												
M[illegible]l Aguilar	[illegible]	1-[illegible]"									[illegible]	[illegible]	1[illegible]		[illegible]
Manuel Aguilar	47.9L	1-1[illegible]"						46	1[illegible]	1[illegible]	[illegible]	[illegible]	1[illegible]		10[illegible]
[illegible]	[illegible]	1-[illegible]"								1[illegible]	[illegible]	1			[illegible]
[illegible]bert C. [illegible]	[illegible]	1-1[illegible]"								1[illegible]	1[illegible]	[illegible]1	1		[illegible]
[illegible] Ranch	[illegible]	1-[illegible]"						11	[illegible]	1	[illegible]	[illegible]	1		1[illegible]
--GAGING STATION - [illegible] NEAR [illegible]LE--	[illegible]														
--[illegible] BRIDGE--	[illegible]														
Roy Mathews	[illegible]	1-6"										[illegible]	1		[illegible]
[illegible] Inn [illegible]	[illegible]	1-14"	NO [illegible]												
M. A. [illegible] and [illegible]	[illegible]	1-6"	4					1[illegible]	[illegible]	[illegible]	[illegible]	111	[illegible]	[illegible]	[illegible]
August Berger	[illegible]	1-[illegible]" 1-1[illegible]"	NO [illegible]												
A. [illegible]	[illegible]	1-[illegible]"	NO [illegible]												

TABLE 195

DIVERSIONS - FEATHER [illegible] (contd.)

November 1959 through [illegible]tober 1960

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
Steadman Orchards	51.4R	f1-5" 1-10"							6	[illegible]	3[illegible]	[illegible]	[illegible]		140
S. J. and J. R. Pratua	52.1L	1-8" 1-10"							44	36	6[illegible]	1	[illegible]	11	264
S. J. and J. R. Pratua	52.2L	1-5"						NO DIVERSION							
Mart Butler	52.5L	1-7"	11					[illegible]3	54	101	7[illegible]	67	[illegible]	1[illegible]	3[illegible]4
Moe Fruitman	52.7L	1-8"							41	45	31	33			150
Carl Lee Walker	53.3L	1-6"	23						4[illegible]	103	98	[illegible]	62	33	4[illegible]4
Hearst Magazines, Incorporated	55.1L	1-14"						NO DIVERSION							
Henry Haselbuach	57.9L	1-9"	12						31	29	33	19		14	13[illegible]
--SUTTER BUTTE CANAL COMPANY DAM--	57.9														
Joint Water District	58.1R	Gravity	12400				7[illegible]0	72900	106000	106000	97700	78700	46400	35200	565000
--WESTERN CANAL COMPANY DAM--	61.1														
Western Canal Company	61.2R	Gravity	13600	11000	1140			12300	23200	2[illegible]700	[illegible]600	25[illegible]00	1[illegible]100	15100	1[illegible]9500
--OROVILLE - RICHVALE HIGHWAY BRIDGE--	62.6														
--OROVILLE - CHICO HIGHWAY BRIDGE--	65.0														
--GAGING STATION - FEATHER RIVER NEAR OROVILLE--	71.0														
FEATHER RIVER Totals Average cubic feet per second Monthly use in per cent of seasonal			[illegible]6220 441 [illegible]	11150 1[illegible]1 1.4	1190 19 0.2		[illegible] 130 1.0	[illegible]0050 151[illegible] 11.2	139300 2266 17.4	147200 2474 1[illegible].3	143700 2337 17.9	119900 1950 14.9	64010 1076 8.0	51730 841 6.4	[illegible]02500 1105

* Honcut Slough - Plant diverts Feather River water backed into slough. Mouth of Slough is at Mile 43.7L. Distance from Feather River and bank is shown in parenthesis.
a New installation in 1960.
b The 30" unit was installed in 1960.
[illegible] formerly li[illegible] . J. [illegible]ta.
[illegible] The [illegible]" unit was installed in 1[illegible]C.
e Formerly listed as W. Earl Willey.
f The 5" unit is portable.

TABLE 196

DIVERSIONS - YUBA RIVER

November 1959 through October 1960

Water User	Mile and Bank above [illegible]th Street	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
--HIGH[illegible]AY [illegible] I GE--	[illegible]														
Richard [illegible]ur	[illegible]	[illegible]-6" 1-12"								80	141	1[illegible]4			3[illegible]
--SIMPS[illegible]N LANE B[illegible]LGE--	2.9														
Ben Williams	1.4R	1-6"						NO DIVERSION							
L[illegible]rin N. Trubschen[illegible]k	1.8R	1-6"								8	7	1[illegible]		5	3[illegible]
W. [illegible]. Harrington	2.2L	1-4" 1-[illegible]"						NO DIVERSION							
River Bend Ranch	[illegible]L	1-14"					5	68	2	200	313	252	27		8[illegible]7
G. D. Lolmaugh	3.1[illegible]	1-[illegible]"								27	27	13	9		76
Richard Wilbur	4.1L	1-[illegible]" 2-14"							139	494	638	217	152		164[illegible]
DiGi[illegible]rgi Fruit [illegible]rporation	4.75L	1-8"						21	22	[illegible]9	23	40	20	4	1[illegible]9
DiGiorgio Fruit [illegible]rporation	[illegible]. 5L	1-6"						6	3	26			5		4[illegible]
--GA[illegible]NG STATI[illegible]N - Y[illegible]A [illegible]IVER [illegible]AR M[illegible]Y VILLE--	5.2L														
[illegible]tt Hendri[illegible]ks	5.75L	1-14"									26				26
--DA[illegible]DER[illegible] P[illegible]INT DAM--	11.														
Ma[illegible]w[illegible]d Irrigation [illegible]ompany	11. R	Gravity	3740	[illegible]4[illegible]	759		630	11600	15900	16800	1[illegible]000	16[illegible]00	10700	7010	1[illegible]8[illegible]
[illegible]rdua Irrigati[illegible] Di[illegible]trict	11.0R	Gravity	6310	8[illegible]0	187[illegible]		94	6320	12000	12300	126[illegible]	11800	7690	6170	85250
--[illegible]Y [illegible]R[illegible]K--	13.1R														
[illegible] [illegible]n[illegible]idated [illegible]d [illegible]eli[illegible]pany	14.5L	Gravity						NONAGRI ULTURAL USE							
--H[illegible]WAY [illegible]IDG[illegible]--	1[illegible].1														
--[illegible]K--	[illegible].1.8L														
--N[illegible]I DAM--	22.8														
[illegible] [illegible] Average [illegible]tic feet per [illegible]d M[illegible]t[illegible] [illegible]e in per [illegible]ent [illegible]			10[illegible]50 169 [illegible].2	11[illegible]0[illegible] 1[illegible]8 [illegible].	2629 43 1.4		[illegible]29 12 0.4	18[illegible]20 [illegible]3 9.4	28[illegible]70 457 14.[illegible]	29[illegible] [illegible] 15.6	31[illegible] 5[illegible]1 16.[illegible]	28[illegible] 466 14.9	186[illegible] 313 9.7	13190 215 6.8	14[illegible]200 [illegible]

TABLE 197

DIVERSIONS - BEAR RIVER

November 1959 through October 1960

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
--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. N. Gilbert	8.1R	1-6"						32	15	20					67
California Packing Corporation	9.0L	1-8"						24	18	8					50
California Packing Corporation	10.7L	1-10"					29	114	66	135	74	23	14		455
--HIGHWAY 99E BRIDGE--	11.3														
--GAGING STATION - BEAR RIVER NEAR WHEATLAND--	11.3														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	11.35														
BEAR RIVER															
Totals			0	0	0	0	29	170	99	163	74	23	14	0	572
Average cubic feet per second			0	0	0	0	0	3	2	3	1	0	0	0	1
Monthly use in per cent of seasonal			0	0	0	0	5.1	29.7	17.3	28.5	12.9	4.0	2.5	0	

TABLE 198

DIVERSIONS - AMERICAN RIVER

November 1959 through October 1960

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb.	Mar	Apr.	May	June	July	Aug.	Sept	Oct	
--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"						NO DIVERSION							
North Sacramento Lands Company	2.65R	1-8"						NO DIVERSION							
North Sacramento Lands Company	2.75R	1-8"							5	10	15	19	14	10	73
--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	6.5R	1-6"							1	28	38			21	88
E. Clemens Horst Company	7.0R	1-4"						NO DIVERSION							
E. Clemens Horst Company	7.5R	1-8"							9	70	83	5	6	28	201
J. I. Haas, Incorporated	7.7R	1-4"						NO DIVERSION							
Del Paso Rock Products	8.9R	1-1 1/2"					NONAGRICULTURAL USE								
Walter J. Wiesemann	9.0L	1-6"						1	16	15	15	13			60
O. L. Browning	9.05R	1-5"						NO DIVERSION							
J. O. and F. F. Dauenhauer	9.2L	1-4"							13	12	17	17			59
Ruth Coleman	9.4L	1-5"								4	64	61	13	13	155
Del Paso Rock Products Company	10.2R	1-8"						NO DIVERSION							
Gold Nugget Orchard Company	10.4R	1-5"						7	12	14	10	5	5	7	60
Mucke Sand and Gravel Company	11.2L	1-4"	1	1				4	5	5	7	7	5	5	40
J. T. Gore	11.5L	1-4"						2	29	29	30	29	21	22	162
Riverview Enterprises	11.7L	1-4"								17	18	11			46
Carmichael Irrigation District	13.9R							PLANT REMOVED							
Carmichael Irrigation District (a)	14.76R	1-10" 2-12"							79	258	330	263	188	136	1254
J. R. Deterding	15.8R	1-4"								8	11	5			24
Carmichael Irrigation District	16.0R	b4-10" b4-12" b1-14"	281	136	245	251	318	419	517	824	853	877	796	593	6110
--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															
Totals			282	137	245	251	318	433	686	1294	1491	1312	1048	[illegible]	332
Average cubic foot per second			5	2	4	4	5	7	11	22	24	21	1	14	11
Monthly use in per cent of seasonal			3.4	1.7	2.9	3.0	3.8	5.2	8.2	15.5	17.9	15.8	12.[illegible]	10.0	

a New installation in 1960.

b Replaces one 4" and three 12" units.

TABLE 199

DIVERSIONS - PUTAH CREEK*
November 1959 through October 1960

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
T. S. Glide	0.8L	1-6"						NO DIVERSION							
T. S. Glide	1.6R	a 1-12"						1	14	41	75	75			b 206
William C. Hamel	2.1R	1-4"						4							4
William C. Hamel	2.7R	1-10"					6	23	6	2	83	18	6		b 144
William C. Hamel	3.0L	1-4"									62	23			b 85
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"								31	42	32	1		106
--GAGING STATION - PUTAH CREEK BELOW WINTERS (BOYCE ORCHARD)--	17.0														
William H. Boyce	17.1R	1-6"							133	60	90	39			322
A. C. A. Orchards	19.3L	1-4"						12	9	5	23	2	8	6	65
--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"						1	5	2	3	7	4		22
--COUNTY ROAD BRIDGE--	24.0														
Victor Tucker	24.0L	1-2"							1						1
Mabel Goddard, et al	24.9R	1-3"					4	5	14	17	39	29	26	15	149
Mabel Goddard, et al	25.2R	1-2½"					4		3		4	6	5	5	27
L. A. and Clara Sackett	25.6R	1-3"							4		12		2	1	19
L. A. and Clara Sackett	25.8R	1-3"									3	11	4		18
--GAGING STATION - PUTAH CREEK NEAR WINTERS--	27.8L														
Samuel S. Silvey	28.4L	1-1½"						1	1	2	2	2	2	2	12
Samuel S. Silvey	28.6L	1-2"						1	1	2	3	3	2	2	14
--HIGHWAY 128 BRIDGE--	28.8														
--MONTICELLO DAM--	29.3														
PUTAH CREEK Total			0	0	0	0	14	48	191	162	441	247	60	31	1194
Average cubic feet per second			0.0	0.0	0.0	0.0	0	1	3	3	7	4	1	1	2
Monthly use in per cent of seasonal			0	0	0	0	1.2	4.0	16.0	13.6	36.9	20.7	5.0	2.6	

* Diversions shown in this table below Mile 7.2 are considered as Delta Uplands Diversions.
b Includes an undetermined amount of relifted water from Yolo Bypass - West Cut Mile 17.1R (1.8)

a Replaces a 16" unit.

TABLE [illegible]OC

DIVERSIONS - COSUMNES RIVER*

November 1959 through October 1960

Water User	Mile and Bank above mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec.	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct	
--WE[illegible]N PACIFIC RAILROAD BRIDGE--	0.4														
R. [illegible]. Deller	0.8	1-12"						14	33	49	45	4[illegible]	39	17	24[illegible]
R. L. Deller	1.7R	1-10"									24				24
Kenworthy and Patterson	2.0L	1-30"					10	103	627	683	642	690	240		3046
Nicolaus Ranch	2.9R	1-6"						NO DIVERSION							
A. N. Watson	2.8L	1-7"									50	25	8		83
Nicolaus Ranch	3.1R	1-10"						NO DIVERSION							
--STATE HIGHWAY 104 BRIDGE--	5.3														
Fred G. Cary	6.0L	1-3"						NO DIVERSION							
L. J. Kilkeary and H. Trevor	9.8R	1-16"						NO DIVERSION							
Jack Lewis	10.5R	1-8"	66	71			60	71	62	39					369
--SOUTHERN PACIFIC RAILROAD BRIDGE--	10.6														
--U.S. 50 AND 99 HIGHWAY BRIDGE--	10.7														
--GAGING STATION - CONSUMNES RIVER AT Mc CONNELL--	10.7														
Gertrude T. Mitchell (a)	14.3R	1-10"						13	20	13					46
M. P. Larkin	14.6L	1-5"								4					4
--FREEMAN ROAD BRIDGE--	14.9														
Ralph Nix	15.2L	1-[illegible]								12					12
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. Beitzel	18.2R	1-12"						3	9	98	43	5			158
Bradley Ranch	18.9R	1-6"						NO DIVERSION							
Bright Estate	20.1R	1-10"	107	111				105	200	328	303	249			1403
F. Barbero	21.6L	1-6"						NO DIVERSION							
J. P. Patterson	21.9R	1-6"						NO DIVERSION							
Rooney Brothers	23.7R	1-12"								106	80				186
Rooney and Grimshaw (b)	24.[illegible]R	1-8"	15						6	69	30				120
Francis Rooney	24.5R	1-12"						17	4	48	33				102
--DILLARD ROAD BRIDGE--	24.8														
--RECORDING GAGE - COSUMNES RIVER NEAR SLOUGHHOUSE--	24.85														
P. Westerberg	25.5R	1-10"		[illegible]					31	100	61	49			285
A. V. Signorotti	25.7R	1-3"						NO DIVERSION							
P. M. Grimshaw	25.9R	1-8"						NO DIVERSION							
A. V. Signorotti	26.3R	1-5"							3	8	19				30
P. M. Grimshaw	26.4R	1-6"						NO DIVERSION							
G. C. Johnson	26.5L	1-6"								7	16	1			24
G. C. Johnson	27.3L	1-5"							69	120	78	65	10	5	347
Robert B. Mearns	27.6R	1-7"							27	23	20	4	16		90
P. Silva, Jr.	27.8L	1-6" 1-8"							178	107					285
Robert B. Mearns	28.6R	1-3"							28	73	40	56	75		272
Schneider Ranch	30.0L	1-8"	38	43			3	90	67	111	128	121	54	67	722
Schneider Ranch	30.6L	1-10"							170	131	120	92	30	46	589
--STATE HIGHWAY 16 BRIDGE--	31.3														
A. Granlees	32.6R	1-4"	6						6	85	94	70	12	14	277
--GRANLEES DAM--	33.0														
Cosumnes River Irrigation Association	33.0R	Gravity	165	35	28	102	157	292	1050	1280	739	544	266	472	c 5130
--GAGING STATION - COSUMNES RIVER AT MICHIGAN BAR--	34.3														
COSUMNES RIVER															
Total			397	304	28	102	230	708	2590	3494	7605	2019	750	621	13850
Average cubic feet per second			7	5	0	2	4	12	42	59	42	33	13	10	19
Monthly use in per cent of seasonal			2.9	2.2	0.2	0.7	1.7	5.1	18.7	25.2	18.8	14.6	5.4	4.5	

* Diversions shown in this table below the McConnell Gaging Station are considered as Delta Uplands Diversions. [illegible] effect ceases at about Mile 3.5.

a Formerly listed as C. C. Carli.

b Formerly listed as [illegible]thain and Grimshaw.

c Includes an undetermined amount of spill to the Cosumnes River.

TABLE 201
DIVERSIONS - MOKELUMNE RIVER*
November 1959 through October 1960

Water User	Mile and Bank e s	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov -Oct Acre-Feet
			Nov	Dec.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
Clow and Rose (a)	4.7R	1-12"								56	116	112			284
--FRANKLIN-THORNTON HIGHWAY BRIDGE--	4.9														
--COSUMNES RIVER--	5.0R														
--WESTERN PACIFIC RAILROAD BRIDGE--	5.4														
Manuel Lopes	6.6R	1-12"			5				39	150	197	183	56	15	645
Thornton-Fry Ranches (b)	6.9R	1-8"						2							2
--GALT-THORNTON HIGHWAY BRIDGE--	7.0														
Thornton-Fry Ranches (b)	7.6R	2-12"						123	1020	1240	1400	1360	524		5667
Thornton-Fry Ranches (b)	8.1R	1-12"							37	20	44	40	17		158
Albin G. Steffan	8.7R	1-12"					22	108	143	155	159	145	112	81	925
S. and J. Frandy	10.4L	1-12"	5					17	9	38	45	31	26	14	185
Albin G. Steffan	10.6R	1-16"	45				39	207	431	416	255	232	219	214	2658
Albin G. Steffan	12.7R	1-12"	61				59	168	271	330	386	388	219	113	1995
A. Taddei	14.2R	1-6"						NO DIVERSION							
C. Blattler	15.5R	1-4"	1				3	3	8	10	9	10	3	6	53
A. Taddei	15.6R	1-6"			25					39	13	33			110
Mrs. Rose J. Linde (c)	16.8R	1-6"								35	39	18			92
--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	3150	1750	139		2090	6730	12400	18400	18400	18800	11700	6850	100400
LeMoin Beckman	21.1L	1-5"						NO DIVERSION							
Arthur J. Hoffman	21.85R	1-6"						90	44						134
Sidney Halsey	22.5R	1-2" 1-5"						8		10	8	6			32
Howard Mason	22.7L							NO DIVERSION							
Cecil V. and Evelyn P. Mumbert	23.4R	1-4"						27	2	18	18	5			70
L. R. Sanguinetti	23.4L	1-6"							4	6	3	5			18
M. M. Bender	23.5R	1-4"						DOMESTIC USE ONLY							
--SOUTHERN PACIFIC RAILROAD BRIDGE--	23.6														
Ben Bechthold	24.0L	1-4"						21		8	5	5		3	42
--HIGHWAY 99 BRIDGE--	24.2														
Litts, Mullen and Perovich	24.45L	1-5"								12	13	1			26
Lawrence Ranch	24.5L	1-6" 1-10"						146	199	51	222	22			640
S. and M. Miller	24.8L	1-6"							2	3	4	5	4	2	20
Ray A. Mattler	25.2R	1-10"					19	79	5	14	13	13			143
Eastside Winery (d)	25.5L	1-4"								4	15				19
--CENTRAL CALIFORNIA TRACTION COMPANY BRIDGE--	25.6														
Robert N. Lind	26.3L	1-5"							12	10	15	13	6		56
Richard Wagers	26.35L	1-4"	1					1	2	1	2	3	2	1	13
Truman Sabine	26.9R	1-5"						15	26	45	74	64	20	2	246
Irene Grean	27.5L	1-5"	1				19	60	31	7	23	25			166
Mrs. Rosa J. Linde (c)	27.6L	1-8"							4	8	8	5			25
A. E. Joens	27.9L	1-10"				7	235	126							368
Nakagawa Brothers	e 28.4R	f 1-5"								10	13	6			29
Frankia G. Dick	28.5L	g 1-8"									2	3			5
Nakagawa Brothers	28.6R	1-6"						14	25	82	98	75	23	10	127
L. J. Peterson	28.9L	1-4"						NO DIVERSION							
W. E. Mohlhaff	29.9R	1-8"						56		19	4	17			96
E. Bender	30.0L	1-10"	2						18		27	16	18		81
--BRUELLA ROAD BRIDGE--	30.[illegible]														
V. W. Hoffman and Sons	30.15R	1-8"	9					47	51	55	66	32	4		264
N. H. Davis	30.35R	1-6"	6						5	18	24	25	14	5	95
J. J. Schmiedt	30.95L	1-7"								30	59	44			133
Leon Kirschenmann and Leonard Pressler, et al	31.0L	1-8"	2				68	76	65	3	27	18	1	1	261
V. W. Hoffman and Sons	31.45R	1-5"								20	13	26			59
Rosa D. Soucie	31.7L	1-5"						NO DIVERSION							
John Graffigna	31.8R	1-7"							6	20	45	33			104
Jones Ranch	32.0L	1-6"						NO DIVERSION							

TABLE 201

DIVERSIONS - MOKELUMNE RIVER* (contd.)

November 1959 through October 1960

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct Acre-Feet
			Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.	
North San Joaquin Water Conservation District	32.3L	1-12" 1-18"							106	185	1	148	160		600
L. J. Peterson	32.5L	1-5"						5	11	12	25	14	13	7	87
Red Checker Ranch	32.75R	1-5"						NO DIVERSION							
C. M. Locke	33.25L	1-10"						21	28	38	47	50	35		219
Acampo Vineyards	33.45R	1-8"						7	5	1					13
Acampo Vineyards	33.6R	1-8"						28	103	57	42	38			268
Niel C. Locke	33.7L	1-12"						95	116	219	254	256	136		1076
T. and E. Schmierer	33.8R	1-4"					2	5	8	7	7	9	8	1	47
R. T. McCarty	34.0L	1-8"					33			51	33		100	82	299
Pritom Singh Dhaliwal	34.05R	1-4"							4	4	4	4	1		17
Norman Knoll	34.1R	1-4"					19	47	28	21	28	26			169
Norman Knoll	34.3R	1-4"					5	33	5	6	13	14			76
--COUNTY ROAD BRIDGE--	34.35														
J. B. Ward	34.5R	1-4"						6	5	6	10	7			34
E. L. Corwin and Son	34.55L	1-10"						NO DIVERSION							
Kenneth H. Beckman	34.6R	1-5"									8	12			20
H. C. Russell	34.75L	1-12"	15					9	55	81	75	79	58	44	416
E. R. Thomas	35.15R	1-6"						6	54	85	101	58	65	53	422
Don Locke	35.2L	1-8"	11	1	1			17	17	37	50	46	22	10	212
Manuel Machedo	35.4L	1-8"						12	19	53	54	60	24		222
Boyce Van Patten	35.5R	1-8"								25	73	53	120		271
Dr. Raymond Mehlhaff	35.7L	1-6"						9	50	68	52	53	42		274
T. H. Quessenberry	35.9L	1-7"							52	41	53	49	24	13	232
W. S. Montgomery	36.0L	1-6"						7	32	33	70	39	29	15	225
Boyce Van Patten	36.2R	1-6"								38	95	59	122		314
Mrs. Ossie Parker	36.45L	1-12"						25	193	104	240	234	117		913
J. R. Wiederrich	37.15L	1-10"							12	39	31				82
W. L. Moffat	37.45R	1-8"		30	29						64	38	16		177
W. L. Moffat	37.65L	1-10"	7	69						8	31	41			156
Costa Estate	37.7R	1-12"							8	17	25	12			62
C. and F. Sanguinetti	38.0L	2-6"								19	18	27	22		86
C. and F. Sanguinetti	38.1L	1-8"	24			1	9	7	17	37	44	43	49	11	242
Rudolph Sutter	38.3L	1-10"		13				6	37	47	54	38	19		214
Gertrude W. Ghrisman	38.5L	1-12"							1	14	58	32	25		130
Clements Estate	39.0L	1-12"	259	22	1		1	210	327	411	491	470	376	361	2929
McGee Ranch	39.25L	1-5"							1	5	6	7	6		25
--HIGHWAY 88 BRIDGE--	39.3														
--GAGING STATION - MOKELUMNE RIVER NEAR CLEMENTS--	39.35														
MOKELUMNE RIVER															
Totals			3599	1885	200	8	2623	8679	16150	23110	24020	23840	14560	7914	126600
Average cubic feet per second			60	31	3	0	43	146	263	388	391	388	245	129	174
Monthly use in per cent of seasonal			2.8	1.5	0.2	0	2.1	6.9	12.8	18.2	19.0	18.8	11.5	6.2	

* 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 be within the Delta Lowlands. Tidal effect ceases at about Mile 10.5.

** Mile and bank above New Hope Bridge.

a Formerly listed as Egbert O. Morse.
b Formerly listed as Thornton Farms.
c Formerly listed as R. J. Linde.
d Formerly listed as W. A. Cohick.
e Plant moved from Mile 27.2R in 1960.
f Replaces an 8" unit.
g Replaces a 5" unit.

TABLE

DIVERSIONS - CALAVERAS RIVER*

November 1[illegible] through October 19[illegible]

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
Inmar Realty Company	1.81	1-12"						NO DIVERSION							
Clair E. Heitman	2.2L	1-4"						NO DIVERSION							
Weiershauser, Ghiorzo and Picardo	2.4R	1-12"					[illegible]	2	12	15	28	34	22	1	133
John Santa Maria	2.9L	1-4"					1	1	2	2	3	3	3	2	17
--PACIFIC AVENUE BRIDGE--	3.7														
Charles M. Weber	4.4R	2-[illegible]"						NO DIVERSION							
--SOUTHERN PACIFIC RAILROAD BRIDGE--	5.3														
--STOCKTON DIVERTING CANAL--	5.4L														
Roy Moresco	5.7L	1-14"								36	9				45
Claude Moresco	6.0L	1-5"						NO DIVERSION							
A. Toso	6.2L	1-4"								16					16
--U. S. 50 AND 99 HIGHWAY BRIDGE--	6.8														
--GAGING STATION - CALAVERAS RIVER NEAR STOCKTON--	7.3														
--CHERRYLAND ROAD DAM--	7.3														
A. Vignolo and Son	7.3L	1-12"								32					32
V. C. Blakley	7.4L	1-2½"								13	1				14
J. L. Filipella	7.6L	1-10"								9					9
--CENTRAL CALIFORNIA TRACTION COMPANY RAILROAD BRIDGE--	7.9														
J. N. Sanguinetti	8.3L	1-6"								11					11
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"								16					16
Uyeda Brothers	9.9L	1-6"								10	5				15
Rugani Brothers	9.9R	1-6"								37	4				41
Fred Podesta, Jr.	10.1R	1-8"								24					24
N. and R. Sanguinetti	10.2R	1-8"								54	8				62
--ALPINE ROAD BRIDGE--	10.6														
John B. Garibaldi	11.0L	1-5"								23	4				27
John Arata	11.2L	1-5"						NO DIVERSION							
Irene Saccone	11.4L	1-4"								20					20
Frank Solari	11.4R	1-6"								69					69
--PEZZI DAM--	11.8														
Julia Pezzi and Sons	11.8R	Gravity								102					102
Julia Pezzi and Sons	11.82L	Gravity								35					35
Julia Pezzi and Sons	11.85L	Gravity								37	12				49
A. Navone	11.85R	Gravity								9					9
Julia Pezzi and Sons	11.95L	Gravity								34	11				45
A. Navone	11.95R	Gravity								2					2
Julia Pezzi and Sons	12.0L	Gravity								33	4				37
Julia Pezzi and Sons	12.05L	Gravity								27					27
Julia Pezzi and Sons	12.1L	Gravity						NO DIVERSION							
Julia Pezzi and Sons	12.15L	Gravity								14	19				33
--MURPHY DAM--	12.3														
[illegible] Sciutti	12.3L	Gravity								14	4				18
[illegible] Freggiaro and Son	12.3R	Gravity								34					34
Tony Pastore	12.35L	Gravity								13	1				14
G. Freggiaro and Son	12.39R	Gravity						NO DIVERSION							
G. Freggiaro and Son	12.41R	Gravity								14					14
[illegible] Bava and Son	12.42R	Gravity								111					111
Vic Freggiaro	12.43R	Gravity								9					9
Vic Freggiaro	12.45R	Gravity								9					9
Vic Freggiaro	12.5R	Gravity								38					38
Tony Pastore	12.51	Gravity									1				1
Tony Pastore	12.6L	Gravity						NO DIVERSION							
Vic Freggiaro	12.6R	Gravity								2					2
--STATE HIGHWAY 88 BRIDGE--	12.[illegible]														
Tony Pastore	12.81	Gravity						NO DIVERSION							
Perry Pope	12.9R	Gravity						NO DIVERSION							
Ed [illegible]. Brandstad	13.6R	1-6"								12	4				16
Fred Podesta	13.9L	1-14"								122	27				149

TABLE [illegible]

[illegible]NS - ALAVERAS RIVER (contd.)

[illegible]vember [illegible] through [illegible]ctober [illegible]

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
Dewey Leffler	13.[illegible]R	1-8"								[illegible]	[illegible]				[illegible]
N. Tassano	14.[illegible]R	1-8"								[illegible]1	4				[illegible]
Henry Foppiano	14.1L	1-[illegible]"						NO DIVERSION							
J. Schiaffini	14.4R	1-4"								[illegible]1					21
Angelo Grattone	14.[illegible]R	1-12"								2[illegible]					2[illegible]
--EIGHT MILE ROAD BRIDGE--	14.[illegible]														
--EIGHT MILE ROAD DAM--	14.7														
L. and R. DeVincenzi	14.8R	1-6"								64	2[illegible]				[illegible]
Dave V. Sanguinetti	1[illegible].1L	1-[illegible]"								17	1				18
A. Girardi	1[illegible].4R	1-12"								57					57
J. H. Tone	1[illegible].7L	1-10"								83					83
--JACK TONE ROAD BRIDGE--	15.8														
John Plotz	16.0[illegible]	1-5"								18	5				23
L. A. Cademartori	1[illegible].2L	1-5"								48					48
Joe Phillips	16.[illegible]L	1-6"						NO DIVERSION							
[illegible]. Paoletti	16.6[illegible]	1-5"								16	2				18
E. G. Guthrey	16.65R	1-5"								7					7
Reno Paoletti	16.7L	1-4"								6	2				8
Lawrence Zolezzi	16.8L	1-6"								38	6				44
Mario and John Boggiano	17.3L	1-10"								35	6				41
E. H. Ladd	17.3R	1-10"								7					7
George Hansen	17.6R	1-8"								47	11				58
--TULLY ROAD BRIDGE--	17.8														
--TULLY ROAD DAM--	17.85														
Steve Solari	18.4L	1-8"								221	52				273
Rugani Brothers	18.5L	1-8"								38					38
Joe Landoni	19.3R	1-5"								24	3				27
E. F. Messick Estate	19.8R	1-5"						NO DIVERSION							
B. E. Stagnaro	19.8L	1-8"								39					39
A. Delucchi	19.9L	1-4"								6	2				8
L. Vaccarezza	20.1L	1-5"								30					30
E. Brennan	20.3L	1-10"								75					75
G. Pacini	20.4L	1-3"								7	1				8
Edward Ginnecchini	20.6L	1-5"								17					17
H. S. and A. R. Guernsey	20.9R	1-8"								82	9				91
F. and M. Arboco	21.0L	1-4"								8					8
Frank Giannecchini	21.01L	1-5"						NO DIVERSION							
--CLEMENTS ROAD BRIDGE AND DAM--	21.1														
E. W. Marciano and D. Canepa	21.1L	Gravity								99	2				101
Albert Metzler	21.11L	Gravity								24					24
R. A. Lundblad	21.35R	1-8"								28	6				34
D. Giordano	21.4L	1-4"								2					2
Domonick Figone	21.5L	1-5"								17					17
--NORTH SLOUGH--	21.6R														
--NORTH SLOUGH CONTROL GATES**--	**(0.0)														
F. Harrison	**(1.3L)	1-4"								7					7
L. Robinson	**(1.3R)	1-3"						NO DIVERSION							
S. Filippone	**(1.8L)	1-4"				3				13	3				19
Webster Ranch	**(1.81L)	1-12"								244	97				341
Webster Ranch	**(2.6R)	1-12"	38					22	39	123	50	39	23	16	350
W. G. Fisher	**(4.1L)	1-9"								33	2				35
--TULLY ROAD BRIDGE--	**(4.2)														
J. H. Tone	**(6.0R)	1-1[illegible]"						8	17	72	[illegible]8	65	54	11	2[illegible]
A. Girardi	**(6.1L)	1-16"								28					[illegible]
Lyons Brothers	**(6.6R)	1-1[illegible]"						14	22	76	81	59	66	53	37[illegible]
Lucky Ranch	**(7.3L)	1-6"						1	6	64	14	1[illegible]	4		[illegible]
A. G. Steltzner	**(7.3R)	1-1[illegible]"						NO DIVERSION							
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	**(1[illegible].3L)	1-4"						NO DIVERSION							
W. C. Leffler	**(11.5L)	1-10"								144					144

TABLE [illegible]

DIVERSIONS - CALAVERAS RIVER (cont'd.)

November 19[illegible] through October 1[illegible]

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
Webster Ranch	[illegible]1.7R	1-8"								75	21				9[illegible]
P. C. D. Ranch	[illegible]1.[illegible]R	1-8"								57					57
Andrew Cuneo	[illegible] L	1-12"								1[illegible]4	25				129
Nick Genetti	[illegible].L	[illegible]-4"								2	4				24
Joe DeMartini	2[illegible].R	1-8"								57					57
Carroll and Anders[illegible]	2[illegible].3L	1-8"								53					53
John Boggiano	[illegible].4R	1-10"								38	5				43
Caeser DeMartini	22.7R	1-12"								83	12				95
Tassano Ranch	22.9L	1-8"								37					37
Frank DeBenedetti	23.1L	1-7"						NO DIVERSION							
Fred Podesta	24.1L	1-12"								9					9
Fred Podesta	24.4L	1-12"								343	47				390
--STATE HIGHWAY 8 BRIDGE--	25.2														
--GAGING STATION - CALAVERAS RIVER AT BELLOTA--	2[illegible].25														
--CALAVERAS RIVER-MORMON SLOUGH CONTROL GATES--	2[illegible].28														
John Armanino and Sons	25.3R	1-10"								30					30
D. Creary	25.3L	1-2½"						NO DIVERSION							
--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"								17	10				27
Angelo Solari	8(0.5L)	1-8"								101	3				104
Fred Casella	8(0.9L)	1-6"					4	4	1	63	24	7	3	5	111
George C. Watkins	8(1.2L)	1-6"								51	2				53
John, Louis and Mario Boggiano	8(1.4R)	1-12"								140	3				143
Sam Motoike	8(1.5L)	1-8"								52	1				53
Raymond Motoike	8(1.7L)	1-6"								28	8				36
E. Marugliano	8(2.0R)	1-7"								37					37
C. and F. Sanguinetti	8(2.0L)	1-8"								55	10				65
Estella R. Ryburn	8(2.5L)	1-10"								62	8				70
--PINE ROAD BRIDGE--	8(2.7)														
Julia Pezzi and Sons	8(3.3L)	1-8"								31					31
Caeser DeMartini	8(3.4R)	1-10"								50	10				60
John Avansino	8(3.5L)	1-4"								27	6				33
Louis J. Lagorio	8(3.6R)	1-6"								38					38
Ray Lagorio	8(3.7R)	1-8"								29					29
P. W. Leonardini (b)	8(4.[illegible]L)	1-6"								16	4				20
P. W. Leonardini	8(4.1L)	1-2" 1-7"								63	2				65
Bertha E. Case	8(4.4L)	1-8"								51					51
Nick Bonomo	8([illegible].5L)	1-10"								88	6				94
John A. Lagorio	8([illegible].8L)	1-7"						NO DIVERSION							
Motoike Brothers	8(6.1L)	1-6"								12					12
[illegible]. Piazza	8(6.2R)	1-6"								19	6				25
John Ratto	8(6.7R)	1-5"						NO DIVERSION							
Bondero Brothers	8(6.9R)	1-8"								21	2				23
A. and R. Lagorio and A. and J. Caffese	8(6.9L)	1-8"								51					51
Prato Brothers	8(7.2R)	1-6"								25	1				26
A. and R. Lagorio and A. and J. Caffese	8(7.2L)	1-8"								29					29
Mapes Brothers	8(7.5R)	1-6"								58	8				66
D. Paoletti and Son	8(7.8R)	1-6"						NO DIVERSION							
--COPPEROPOLIS ROAD BRIDGE--	8(7.8)														
Smythe, Van Dyke Company	8(8.4L)	1-16"						NO DIVERSION							
J. Queirolo	8(9.9L)	1-6"								3					3
A. Mignacco	8(10.0L)	1-8"								31					31
E. M. Walker	8(10.0R)	1-5"						NO DIVERSION							
M. Lavaggi	8(10.3L)	1-8"								32	3				35
Ralph Panella	8(10.7R)	1-8"								54	3				57
Ralph Panella	8(11.0L)	1-6"								20					20
Nick Genetti, Jr.	8(11.6R)	1-8"								22					22
G. B. Ghiorzo	8(11.7R)	1-5"					11			20	1	3	2		39

TABLE 202

DIVERSIONS - CALAVERAS RIVER* (contd.)

November 1959 through October 1960

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June	July	Aug	Sept	Oct	
Frank C. Raffel	8(11.9L)	1-6"								19	16	10	10		55
A. Gogna	8(12.4R)	1-5"								15	8	8	4		35
A. Solari and Sons	8(12.5L)	1-4"								16	4				20
Amerigo Cortopassi	8(12.6L)	1-4"								17					17
G. Caffese and Sons	8(12.8R)	1-7"								33					33
--STOCKTON DIVERTING CANAL--	8(13.0)														
Riddle Estate	88(13.3R)	1-6"						NO DIVERSION							
Riddle Estate	88(13.7R)	1-6"						NO DIVERSION							
--STATE HIGHWAY 8 BRIDGE--	88(14.9)														
D. Gambini	88(15.4R)	1-6"						NO DIVERSION							
Budiselich and Boggiano Brothers	88(15.7R)	2-12"								89	6				95
--U. S. 50 AND 99 HIGHWAY (FREEWAY) BRIDGE--	88(16.0)														
--GAGING STATION - STOCKTON DIVERTING CANAL AT STOCKTON--	88(16.2)														
--U. S. 50 AND 99 HIGHWAY BRIDGE--	88(17.2)														
Albert A. Anderson	25.5L	1-12"								68					68
L. F. Grimsley; Incorporated	25.9L	1-16"								111					111
Vignalo and Pallavicino	26.3R	1-10"								115	26				141
Field Brothers	26.8L	1-10"								56	8				64
McGurk Ranch	26.8R	1-8"								110	27				137
Saverio Nogare	27.2R	1-12"						NO DIVERSION							
Saverio Nogare	27.5L	1-10"								66					66
E. E. Cady	28.3L	1-6"								12					12
Ray Lagorio	28.5L	1-8"								38					38
R. T. and A. V. Lagorio	28.9L	1-10"								11					11
Garavano and Maffeo	29.0L	1-6"								54	12				66
O. R. Shelley	29.2R	1-6"						21	4	10	21				56
O. R. Shelley	29.3L	1-10"						30	46	69	39				184
M. N. Yocum	29.4L	1-8"								25					25
Kenneth G. Watkins	30.1R	1-10"			13	18	5	66	9	148	61				320
--BELLOTA RIVER ROAD BRIDGE--	30.4														
L. and D. Hoag	30.6R	1-14"								65	13				78
Lynn Barnett	30.7R	1-7"								16					16
Lois E. Hunt	31.1R	1-10"							26	72	24				122
Leslie M. Gregory	31.3R	1-8"		2	2	1	2		57	91	54	17	3		229
Emmet Gregory	31.6R	1-6"								38					38
Eva Hunt	32.5R	1-6"	2				5	7	11	16	13	15	11	2	82
Eva Hunt	32.6L	1-8"							46	39	54				139
--GAGING STATION - CALAVERAS RIVER AT JENNY LIND--	36.9														
CALAVERAS RIVER															
Totals			40	2	15	22	40	176	298	6815	1214	270	205	99	9196
Average cubic feet per second			1	0	0	0	1	3	5	115	20	4	3	2	13
Monthly use in per cent of seasonal			0.4	0	0.2	0.2	0.4	1.9	3.3	74.1	13.2	3.0	2.2	1.1	

* 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 is 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 is shown in parentheses.

88 Stockton Diverting Canal - 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 is shown in parentheses.

a Plant moved from Mile 24.3L in 1960.

b New installation in 1960.

TABLE [illegible]3

DIVERSIONS - DELTA [illegible]LANDS

[illegible]d River, Tom Paine [illegible]lough, and Pren[illegible] [illegible]ough

N[illegible]vember 19[illegible] through O[illegible]er 19[illegible]

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
OLD RIVER	*														
--CONTRA COSTA CANAL--	[illegible].5L														
John A. Bettencourt	[illegible]5.5L	1-18"	[illegible]					[illegible]	[illegible]	168	181	171	164	155	1176
Augustus Sarija	b 36.5L	2-6"	6	1			25	[illegible]	41	61	57	53	[illegible]	[illegible]	[illegible]
East Contra Costa Irrigation District	b 36.5L	1-18" 3-24" 2-30"					[illegible]	[illegible]7	5160	7410	7710	7350	[illegible]	142	[illegible]
--STATE HIGHWAY 4 BRIDGE--	38.8														
Byron-Bethany Irrigation District	[illegible] 40.9L	1-[illegible] 1-24" 2-30"					3360	4910	5040	6250	6920	67[illegible]	414	[illegible]	[illegible]
--GAGING STATION-OLD SAN JOAQUIN RIVER AT CLIFTON COURT FERRY	44.0L														
--DELTA MENDOTA CANAL--	44.6L														
M. R. Furtado	d 44.6L	1-14"					127	170	136	275	276	28[illegible]	202	[illegible]	154[illegible]
J. R. Colburn and Fred H. Draper	44.7L	1-8"						24	15	6		[illegible]7	32		134
William M. Ralph	45.3L	1-12"	[illegible]	7			206	102	186	175	204	20[illegible]	141	8[illegible]	1[illegible]91
C. O. Bankhead and Son	e 47.2L	1-16"	60				148	121	215	186	224	277	19[illegible]	165	[illegible]94
Lucio J. Costa	e 47.2L	1-14"	46				10[illegible]	12	1	53	56	2	19		[illegible]
Johnnie L. Costa	d 47.65L	1-8"					3[illegible]	4	[illegible]	57	62	38	30	5	[illegible]
West Side Irrigation District	d 47.65L	1-10" 7-15" 1-18"					4610	5390	45[illegible]	6190	6540	610	4140	906	[illegible]460
Vance Brown	48.4L	1-12"					59	65	70	83	101	90	74	[illegible]	554
Salles Brothers	49.5L	1-4"					1	2	2	3	[illegible]	3	1	1	16
Naglee Burke Irrigation District	50.4L	1-16" 1-18"					1270	1210	1310	2010	2030	1960	1170	3[illegible]0	135[illegible]
Fremont Irrigation Association	50.9L	1-16"		242	1		295	154	194	279	259	312	227	4[illegible]	[illegible]
Joe M. Freitas	51.0L	1-8"					14	6		31	22				73
Attillio Casserini	51.2L	1-10"					35			14	25	20			94
E. Platti, J. Oulardt, and T. Silveira	52.4L	1-10"					64	25	25	43	25	41	46		26[illegible]
--TRACY ROAD BRIDGE--	52.8														
--GAGING STATION-OLD RIVER NEAR TRACY ROAD BRIDGE	52.8R														
A. L. Oalll	53.0L	1-8"			33					5	35				[illegible]
--MOUTH OF TOM PAINE SLOUGH--	54.3L														
OLD RIVER Totals			200	253	34	0	11550	17820	17140	23300	24730	23740	1[illegible]940	5[illegible]45	13[illegible]200
Average cubic feet per second			[illegible]	4	1	0	188	299	279	392	402	[illegible]	34	[illegible]	190
TOM PAINE SLOUGH	**														
Independent Mutual Water Corporation and Company	[illegible].7S	2-18"		698	40		[illegible]7	179	[illegible]7	299	[illegible]	[illegible]	[illegible]	4	[illegible]
Independent Mutual Water Corporation and Company	1.5S	1-18"		217	[illegible]		14	79	[illegible]	68	124	144	[illegible]		[illegible]
--HOLLY SUGAR CORPORATION DREDGER CUT--	8 2.1S														
George J. Lar[illegible]	8 (0.9W)	1-12"		104							9[illegible]				[illegible]
Holly Sugar Corporation	8 (1.5W)	1-14"					165	[illegible]1	1[illegible]	14	[illegible]	[illegible]			[illegible]
Holly Sugar Corporation	8 (1.35W)	1-12"					INDUSTRIAL USE ONLY								
--GAGING STATION-TOM PAINE SLOUGH ABOVE MOUTH--	[illegible].2S														
--MACARTUR DRIVE BRIDGE--	[illegible].7														
Peninsular Reclamation District [illegible] (#1)	[illegible].9S	1-12"		107		17	1[illegible]	[illegible]7	[illegible]6	1[illegible]7	114	[illegible]	129	[illegible]	[illegible]
--LAUREL AVENUE BRIDGE--	[illegible].7														
Frank Bettian	4.[illegible]	1-[illegible]					[illegible]	[illegible]	11	[illegible]	1[illegible]	1			[illegible]
--PARADISE ROAD BRIDGE--	6.0														
Peninsular Reclamation District [illegible] (#[illegible])	6.3[illegible]	1-[illegible]" 1-30" 1-24"	[illegible]				192[illegible]	20[illegible]	[illegible]	[illegible]0	[illegible]810	[illegible]	179	[illegible]	17[illegible]
--MAPLE AVENUE BRIDGE--	7.														
Peninsular Reclamation District [illegible] (#[illegible])	[illegible]	1-[illegible]	[illegible]				[illegible]	[illegible]1	14[illegible]	[illegible]	17	[illegible]	[illegible]	[illegible]	[illegible]
--CALIFORNIA AVENUE BRIDGE	[illegible]														
Peninsular Reclamation District [illegible] (#[illegible])	[illegible].0N	1-16" 1-[illegible]					[illegible]41	[illegible]	[illegible]	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]
TOM PAINE SLOUGH Totals			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Average cubic feet per second			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TABLE 203

DIVERSIONS - DELTA UPLANDS
(Old River, Tom Paine Slough, and French Camp Slough (Contd.)
November 1959 through October 1960

Water User	Mile and Bank Above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug.	Sept	Oct	
FRENCH CAMP SLOUGH	***														
Carolyn Weston	1.0-L	1-12"						58	36	62	23	128			307
Carolyn Weston	1.4L	1-7"								1	1				2
Carolyn Weston	1.45L	1-6	38	129			6	10	18	17	66	58	9	2	353
--FRENCH CAMP TURNPIKE--	2.0														
Frank West	2.2L	1-10"					167	288	164	243	280	255	157	118	1672
Manuel E. Oranados	2.3R	1-3"									5	3			8
Frank West	3.0L	1-10					26	53	54	70	59	74	85	45	466
Tom Gomes	3.3L	1-15"						NO DIVERSION							
Tom Gomes	3.4L	1-4"						NO DIVERSION							
--U. S. 50 HIGHWAY--	3.45														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	3.6														
Milton O. Boege	3.8L	1-8"						NO DIVERSION							
Robert L. Bordenave	3.8R	1-12"					52	38	17	55	70	38			270
--WESTERN PACIFIC RAILROAD BRIDGE--	4.1														
Clark Anderson	4.2R	1-14"						NO DIVERSION							
--GAGING STATION-FRENCH CAMP SLOUGH NEAR FRENCH CAMP	5.4														
FRENCH CAMP SLOUGH Totals			38	129			251	447	289	448	504	556	251	165	3078
Average cubic feet per second			1	2			4	8	5	8	8	9	4	3	4

* Mileage along Old San Joaquin 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 San Joaquin River.
*** Mile and bank above mouth.
δ Holly Sugar Corporation Dredger Cut joins Tom Paine Slough at Mile 2.1S. Distance along dredger cut and bank is shown in parentheses.
a Rock Slough joins Old San Joaquin River at Mile 30.5L. Pumping plant is located on intake canal which joins Rock Slough.
b Indian Slough joins Old San Joaquin River at Mile 36.5L. Pumping plant is located on intake canal which joins Indian Slough.
c Italian Slough joins Old San Joaquin River at Mile 40.9L. Pumping plant is located on intake canal which joins Italian Slough.
d Plant is located on intake canal which joins the Old San Joaquin River at this mile.
e Plant is located on Mountain House Creek which joins the Old San Joaquin River at this mile.

TABLE 204

DIVERSIONS - DELTA UPLANDS
(San Joaquin River - Stockton to Vernalis)
November 1959 through October 1960

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
--STATE HIGHWAY 4 BRIDGE--	45.3														
--FRENCH CAMP SLOUGH--	46.1R														
Carolyn Weston	46.2R	1-6"		43							17	6	6		72
Carolyn Weston	46.3R	1-12"					1	167	[illegible]	140	163	188	102	2	a 793
Mrs. John Lillie	46.65R	1-10"						NO DIVERSION							
Frank West	46.85R	1-10"						122	9	119	127	130	88	9	634
P. Asano	47.2R	1-6"	10	3		1	5	15	12	13	30	16	7	7	119
Wolfinger Brothers	47.3R	1-10"					13	19	17	40	38	20	18		165
C. C. Long	47.55R	1-10	1				45	73	58	126	123	125	31	9	591
Waldo C. Haack	48.0R	1-14"					10	11	29	22	37	39	13		161
Waldo C. Haack	48.1R	1-14"		3	2	1	155	140	263	256	304	328	110		1562
Chow L. Young	48.3R	1-6"	1	1											2
Joe Calcagno	48.5R	1-8"			2		18	25	25	37	42	39	23	24	235
C. J. Fregno	48.55R	1-6"		9			8	8	9	9	11	8	8	8	77
John Calcagno	48.66R	1-12"		14	4		33	94	66	105	134	151	38	53	692
Alfred Rodgers	49.0R	1-12"	14	14	2		24	54	35	65	74	66	63	24	435
Ray Muller and P. Terry	49.3R	1-14"		1			66	80	179	266	152	235	128		1107
Ray Muller and P. Terry	49.5R	1-12"						NO DIVERSION							
A. A. Rodgers	50.1R	1-10"					28	25	35	75	61	58	42	12	336
--GAGING STATION-SAN JOAQUIN RIVER AT BRANDT BRIDGE	50.2														
A. Hirata	50.4R	1-10"					5	42	33	44	39	41	26	1[illegible]	235
K. R. and P. Watanabe	50.6R	1-6"						5	79	22	50	55	30	9	25[illegible]
O. Toscano	50.8R	1-6"						25	29	22	41	27	24	1[illegible]	171
Pastorino Brothers	50.9R	1-12"	9	22					125	13	157	101	12	21	46[illegible]
Pelipe Esteban	51.2R	1-12					3	27	27	50	34	62	1	[illegible]	[illegible]34
W. B. Herbert and Y. B. Lawrence	51.6R	1-10"					88	35	33	107	55	86	40		444
A. McMamars, K. McNamara and Betty French	52.4R	.1-5"						2	4		3	3			1[illegible]
E. F. Valle	52.65R	1-10"						85	120	101	97	141	40		[illegible]

TABLE 2.04

DIVERSIONS - DELTA UPLANDS
(San Joaquin River - Stockton to Vernalis) (Contd.)
November 1959 through October 1960

Water User	Mile and Bank [a]	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
J. Widmer	.2R	1-16"					.14	114	18[illegible]	25[illegible]	[illegible]	[illegible]	[illegible]7	40	[illegible]
J. Widmer	[illegible].45R	1-12"					.4	4	[illegible]	31	[illegible]	4[illegible]	[illegible]		[illegible]
Julio Lorenzo	[illegible].5R	1-8"					9	4	[illegible]		[illegible]	5	[illegible]	[illegible]	[illegible]
Mack Sung	[illegible].55R	1-2"					DOMESTIC USE ONLY								
John Cipparra	[illegible].6R	1-4"	1	1			5	3	5	9	[illegible]	2	7	6	4
R. Rom[illegible] and B. Ar[illegible]	[illegible].7R	1-14"	46	8		5	91	42	137	163	226	141	8[illegible]	24	965
I. N. Robinson Jr.	53.8R	1-14"	12				182	145	189	260	177	329	2[illegible]9	2[illegible]6	1869
H. N. Hansen, H. C. Hansen and William Geiger	54.9R	1-10"	65				5	145	126	151	126	162	116	99	995
--JUNCTION WITH MIDDLE RIVER--	56.2L														
Oakwood Stock Farm	57.0R	1-14"	68				80	404	361	5[illegible]	311	476	174	163	3390
Ernest Wennhold and Ray Tholke	57.15R	1-7"					8	12		17	2	15	[illegible]1		75
A. J. Thomsen	57.[illegible]9R	1-5"		1				29	20	27	22	20		1	12[illegible]
Andrew B. Cabral	57.45R	1-6"						16		19		15			5[illegible]
O. Cardella	57.5R	1-4"				1	9	3	1	7	5	3	1		[illegible]
A. Quetrello	58.6R	1-4"						5	4	9	5	6			3[illegible]
Tony Mauro	58.7R	1-6"					11	4	10	24	15	15	5		84
--SOUTHERN PACIFIC RAILROAD BRIDGE--	58.8														
--GAGINO STATION-SAN JOAQUIN RIVER AT MOSSDALE BRIDGE--	58.9														
--U. S. 50 HIGHWAY BRIDGE--	58.9														
Libby, Owens, Ford	59.25R	1-6"						8	107		24	59	9		[illegible]07
M. H. Madruga	59.3R	1-15"					244	24	147	126	300	297	105		124[illegible]
Eugene J. Rossi, et al.	59.5L	1-14"						121	112	101	120	144	96	92	78[illegible]
--WESTERN PACIFIC RAILROAD BRIDGE--	59.5														
M. H. Madruga	b 60.1R	1-6"					20	77							97
G. M. Baird	b 60.1R	1-16"					225	110	254	288	445	333	161		1816
James and Leslie Little	60.4L	1-3"						NO DIVERSION							
A. P. Windeler	60.5L	1-16"	37					163	237	207	192	143	75	120	1174
E. Picchi and Son	60.8R	1-8"		117						33	60		58		268
E. Picchi and Son	61.4R	1-12"		193				161	81	114	177	55	165	24	97[illegible]
Lester Dishofberger (?)	62.0R	1-8"						66	17	17	37	42			179
Bernice Von Sosten	62.0L	1-12"					152	97	43	137	291	241	43	91	1095
--PARADISE DAM (HEAD OF PARADISE CUT)--	62.2L														
Paradise Mutual Water Company	d 62.2L	1-14' 1-20"		244			273	319	107	176	[illegible]	194	116	[illegible]	1543
Dethlefsen Brothers	63.0L	2-20"	513	319				206	27	509	[illegible]97	936	520		a 3327
State of California	63.3L	1-14"	75	61			193	207	296	476	467	505	314	206	280[illegible]
H. H. Grimes	63.6R	1-12"	1					62	132	116	97	79	74		561
Dethlefsen Brothers	64.6L	1-10"						NO DIVERSION							
Alexander Hildebrand	e 66.0R	1-6" f 1-14"						3					41	16	60
Johnnie J. Silva	66.7L	1-8"					160	121	122	161	116	215	81	40	1016
K-C Ranch	66.8R	1-16"							31	42	91	26			190
George A. Plummer	67.0R	1-6"						NO DIVERSION							
Banta Carbona Irrigation District	g 67.5L	2-10" 2-16" 2-20" 3-24" 1-36"	87				7870	9780	8020	10200	10500	9820	5450	1460	63200
L. Ball (h)	68.2R	1-10"						13	88	86	47	75	77	49	435
Glenn M. West Estate	70.0L	1-10"					30	170	137	176	220	214	111	25	1083
San Joaquin River Water Users Company	71.0R	[illegible]-16"	15				700	515	455	624	731	719	343	152	4252
J. Filippini	71.0R	i 1-4"							3	8	6	5	[illegible]	5	30
Tony M. Cardoza	71.75R	1-4"						NO DIVERSION							
Tony M. Cardoza	72.1R	1-10"					4	28		44		40	16		132
H. J. Mortensen and Barker	73.2R	1-[illegible] 1-12"	[illegible]				295	253	127	361	443	502	151	1	[illegible]170
San Joaquin River Club	74.7L	1-6"	66	85	62	39	99	40	29	1[illegible]4	10[illegible]	97	19	121	884
E. A. Tisal	75.6R	1-16"	29	29			72	80	170	19[illegible]	[illegible]	1[illegible]7	94	65	112[illegible]
SAN JOAQUIN RIVER (Stockton to Vernalis) Totals			1090	1168	72	47	11400	14610	13030	17310	184[illegible]	18[illegible]0	98[illegible]	3406	108900
Average cubic feet per second			18	19	1	1	1[illegible]7	[illegible]45	212	[illegible]91	[illegible]	298	166	[illegible]	150

a Mi[illegible] from t[illegible] 4 miles t[illegible] h.
a In[illegible] intermi[illegible] of water re[illegible] d t r[illegible] y Bill.
i Plant in [illegible] Jack Bill[illegible].
d Plant is located on land as Out which [illegible] the San Joaquin River at this mile.
e Plant [illegible] nne. whi[illegible] ina [illegible] San Joaquin River at this mile.
f Replaced a 6" unit in [illegible]ember 1960.
g Plant [illegible] at [illegible] annal which joins the San Joaquin River at this mile.
Formerly listed as William P[illegible]ini.
Replaces a 6" unit.

TABLE 105

DIVERSIONS - DELTA UPLANDS

CALAVERAS RIVER, MOKELUMNE RIVER, COSUMNES RIVER, SACRAMENTO RIVER BELOW SACRAMENTO, YOLO BYPASS (WEST CUT), AND PUTAH CREEK

November 1950 through October 1960

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
CALAVERAS RIVER (a)															
Totals Average cubic feet per second			0	[illegible]	[illegible]	[illegible]	11	[illegible]	14 0	[illegible]	[illegible] 1	7 1	[illegible]	1[illegible]	11 0
MOKELUMNE RIVER (b)															
Totals Average cubic feet per second			11 [illegible]	0 0	[illegible]	0 0	1[illegible]3 [illegible]	[illegible] 11	1[illegible]	[illegible]	[illegible] 4	[illegible]	117 [illegible]	44[illegible]	11[illegible] 1[illegible]
COSUMNES RIVER (c)															
Totals Average cubic feet per second			66 1	71 1	[illegible]	0	70 1	1[illegible] 3	722 1[illegible]	771 1[illegible]	11 1[illegible]	76[illegible] 1	[illegible]	17	[illegible]
SACRAMENTO RIVER BELOW SACRAMENTO *															
--RIO VISTA BRIDGE--	12.9														
John Lira	13.0R	1-6"						1	27	14	24	24	5	1	[illegible]
C. A. Beach	45.2L	1-12"								77	56	39			172
W. and B. Correa	46.5L	1-10"								[illegible]	64	78	6		204
Mack and Porsythe	45.75L	1-6"						NO DIVERSION							
A. J. Sweeney	45.95L	1-10"							2[illegible]	84	[illegible]	3		10	211
--FREEPORT BRIDGE--	46.0														
Freeport Development Company	46.25L	1-8"						15	104	209	198	101			[illegible]27
L. J. Dee	46.[illegible]L	1-10"							23	47	23				[illegible]
L. G. Klotz	47.3L	1-8"	2	2	10			35	27	42	34	35	33	14	234
E. A. Franklin	47.5L	1-8"						4	1	22	36	12			75
George Coleman	47.7L	1-6"								6	67	24			[illegible]
M. A. Richardson	53.7L	1-6"						NO DIVERSION							
-- TOWER BRIDGE - SACRAMENTO--	59.0														
SACRAMENTO RIVER BELOW SACRAMENTO															
Totals Average cubic feet per second			[illegible]	2	10			55 1	207 3	[illegible]57 9	[illegible] 10	316 [illegible]	44 1	[illegible]	1809
YOLO BYPASS (WEST CUT) **															
N. L. Sorensen	4.2R(1.9)	1-14"	69					68	104	143	122	143	194	101	944
Mounds Farms	4.2R(2.0)	2-12"	92	95	30			50	63	152	[illegible]	119	247	255	11[illegible]
N. L. Sorensen	4.2R(2.0)	1-16"	21	21	7				84	6			70	[illegible]	308
Yolo Plyway Farms	5.7R(0.9)	1-18"	195	201	65			4		48	5		274	358	1150
R.S.W. Ranch	5.7R(1.5)	1-16"	[illegible]2	85	27			298	321	370	405	361	347	26[illegible]	2562
Fridolf Anderson	6.75R(0.6)	1-16"	234	242	78					17	49	15	345	537	1517
James Iriart	7.85[illegible]	1-16"	26	27	9				110	124	115	128	3[illegible]	44	622
Swanston Land Company	7.87R(1.7)	1-16"								424	31	139		101	692
Vaughn and Burlingham	7.87R(2.1)	1-14"						NO DIVERSION							
Vaughn and Burlingham	7.87R(2.5)	1-14"						NO DIVERSION							
Vaughn and Burlingham	7.87R(2.7)	1-14" 1-16"	160	16[illegible]	53			240	267	399	433	352	268	332	2650
Swanston Land Company	9.1R	1-16"	[illegible]							298	321	153		166	1029
T. S. Glide	10.9R(0.4)	1-20"	[illegible]9	[illegible]	86			37	68	38	42	47	313	412	1570
T. S. Glide	11.0R	1-20"						NO DIVERSION							
T. S. Glide	12.4R	1-14"						NO DIVERSION							
T. S. Glide	13.1[illegible]	1-16"						NO DIVERSION							
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	13.2														
T. S. Glide	13.5R	1-10" 1-16"						NO DIVERSION							
T. S. Glide	13.9R	1-16"								480	480				960
T. S. Glide	14.8[illegible]	1-16"								120	120				240
T. S. Glide	17.1R(1.8)	1-20" 1-30"	54	48[illegible]	110			1610	2560	4950	6010	4290	1[illegible]20	470	22[illegible]50
T. S. Glide	1[illegible].6R	1-36"							1190	1090	1090	1070	535		4975
T. S. Glide (d)	18.9[illegible]	1-10"							33						33
--U.S. 40 AND 99W CAUSEWAY--	20.1														
YOLO BYPASS (WEST CUT)															
Totals Average cubic feet per second			1775 [illegible]0	1591 [illegible]	465 [illegible]			2307 39	4200 [illegible]	[illegible] 14[illegible]	4507 1[illegible]	[illegible] 111	[illegible]	3143 51	43[illegible]
PUTAH CREEK (e)															
Totals Average cubic feet per second			0 0	0 0	0 0	0 0	6 0	28 0	[illegible]	45 1	[illegible] 4	1[illegible]	[illegible]	[illegible]	[illegible] 1

* Mileage above Chain Island.
** Mileage above Prospect Island.
a Below gaging station - Calaveras River near [illegible]. Mile 7.9. Individual diversions are shown in Table [illegible]
b Below gaging station - Mokelumne River at Woodbridge.
c Below gaging station - Cosumnes River at McConnell, Mile 10.7. Individual diversions are shown in Table [illegible]
d Temporary installation in 1960.
e Below gaging station - South Fork Putah Creek near Davis. Mile 7.[illegible] Individual diversions are shown in Table 199

TABLE 206

DIVERSIONS - DELTA UPLANDS
(Miscellaneous Delta Uplands)

November 1959 through October 1960

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
MISCELLANEOUS DELTA UPLANDS															
Five Mile Slough															
Sam Hernandes	2/6-17D	1-3"							5	3	2	4	5	1	2[illegible]
Guodi Sergarina	2/6-17C	1-12"						NO DIVERSION							
Lawrence Jimenez	2/6-8N	1-8"							12	10	12	14	7	2	[illegible]7
Disappointment Slough															
N. Moffat and Elbon Land Company	2/6-6P	1-18"					183	401	316	433	566	529	473	140	3041
N. Moffatt and Elbon Land Company	2/6-6J	1-14"					125	442	425	470	589	509	479	217	3256
Telephone Cut															
E. V. Lang	3/5-35A	Gravity	61	20	10		52	66	73	95	107	90	66	122	a 762
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									34	66
E. V. Lang	3/5-25R	1-16"	141	229				28	50	115	157	122	53		895
White Slough															
Bert Van Ruiten	3/5-25C	1-16"	33				27	69	112	172	148	101	157	89	908
Bert Van Ruiten	3/5-26C	1-12"	91	101				86	80	80	168	128	61	25	820
Nog Slough															
Robinson Farms	4/5-28B	Gravity												231	231
Robinson Farms	4/5-28B	Gravity	157	162	42		24	58	57	102	133	25	117	216	1093
Thompson-Folger Company	4/5-28C	1-12" Gravity	153	143	14		32	185	231	338	335	353	356	394	2534
Beaver Slough															
C. B. Orvis	4/5-15C	1-15"	75				97	119	154	176	192	193	167	109	1282
C. B. Orvis	4/5-15D	1-18"	160				104	250	278	325	364	334	281	267	2363
Canal Ranch	4/5-16B	1-8" Gravity	57				41	118	136	172	232	278	186	123	1343
Canal Ranch	4/5-16D	1-8"	53				9	36	67	113	101	104	92	33	608
Burton Slough															
Clow and Rose (b)	5/5-28D	1-10"								6	9	5	5		25
Barnes Ranch	5/5-29D	1-5" 1-10"									37	37			74
Clow and Rose (b)	5/5-20K	1-8"								3	164	81			248
Morse Brothers (b)	5/5-16N	1-16"						100	149	245	371	329	174	32	1400
Clow and Rose (b) (d)	5/5-15M-1	1-10" 1-14"							410	565	454	402	367	48	2246
Morse Brothers (b) (d)	5/5-15M-2	1-14"	81	63				114	145	211	241	116	4	111	1086
Thomas B. Sharp (b)	5/5-16J	1-12"							202	253	243	320	311		1329
East Dredger Cut - Snodgrass Slough															
N. E. Graf	6/5-31N	1-12"								119	125	193	110		547
Alfred Kuhn	6/4-36Q	1-16"						10	96	221	337	192	45		901
Ouck Slough Extension															
Isabella Wineman	6/2-26B	1-14"	56					96	118	215	184	150	144	89	1052
Isabella Wineman	6/2-26D	1-12"	46					87	93	164	160	144	105	91	890
Isabella Wineman	6/2-26J	1-14"	152					141	299	342	304	415	233	168	2054
Hass Slough															
Elmira Farms (g)	6/2-33H	1-12"	33								86	43	42	54	258
Reclamation District 2048	6/2-34G	1-24" 2-30" 1-36"	4040	900	203		914	8830	10700	11700	12200	11300	9240	752[illegible]	77556
Francis F. Gunning	6/2-34P	1-16"	125	129	41			133	182	321	467	335	183	205	2121
Cache Slough															
Carpenter Ranch	4/3-20B	1-12"						54	37	108	104	103	117	16	539
Harold O. Miller	5/2-4R	1-14"	80	40	9		1	78	105	182	160	122	134	80	991
Jack Parker	5/2-4K	1-12"	35	36	12			9	57	106	116	89	55	47	562
Ervin E. Vasser	5/2-4K	1-20"	205	19				112	222	422	385	601	483	24	2473
Calhoun Cut															
Hamilton and Nyman	5/1-25D	1-10"						NO DIVERSION							
Matilda Hall	5/2-19J	1-10"	37						80	84	82	84	64	52	483
Unsegrated															
Red House Ranching Company	3/5-23L	1-10"	15	13			29	66	83	91	102	92	62	93	646
R. C. Coldani	3/5-14L	1-14"	23	22	14	1	26	71	99	107	114	144	122	93	836
Costa and Sousa	4/5-34Q	1-16"	82	84			75	220	247	218	207	240	125	157	1555
H. L. Sorensen	6/3-18F	1-14"													h
H. L. Sorensen	6/3-20J	1-16"	74	77	25			4	1	196	148	13	183	180	901
H. L. Sorensen	6/3-19E	1-14"	142	147	47			42	160	197	389	164	344	414	2046

TABLE 206

DIVERSIONS - DELTA UPLANDS
(Miscellaneous Delta Uplands) (contd.)

November 1959 through October 1960

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct Acre-Feet
			Nov	Dec	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct.	
N. L. Sorensen	6/3-30D	1-14"	103	106	34				109	100	126	204	188	201	1171
N. L. Sorensen	6/3-30L	1-16"	8	8	2			76	11	142	202	113	153	187	902
Reclamation District 2068	6/2-25P	1-12"													h
Sub-Irrigated Lands	(i)						83	106	117	152	171	144	106	91	970
MISCELLANEOUS DELTA UPLANDS Total			6339	2306	457	1	1822	12210	15720	19070	20790	18960	15600	11960	125200
Average cubic feet per second			107	38	7	0	30	205	256	320	338	308	262	195	172
DELTA UPLANDS Total			9647	6642	1131	65	28110	51270	57220	76700	82600	76430	48180	25600	463600
Average cubic feet per second			162	108	18	1	458	861	933	1288	1346	1246	809	417	639
Monthly use in per cent of seasonal			2.1	1.4	0.2	0	6.1	11.1	12.3	16.5	17.8	16.5	10.4	5.5	

* Figures represent North Townships, East Ranges and sections. Letters represent the 1/4 - 1/4 sections which are lettered from A through R excluding I and O, similar to the numbering of sections within a township.
a Includes 549 acre-feet received by sub-irrigation.
b Formerly listed as Egbert O. Morse.
c Replaces a 6" unit.
d Previously listed as Mile 5/5-15M.
e A 12" unit was moved to Mile 5/5-16J in 1960.
f Plant moved from 5/5-15M.
g Formerly listed as G. Peterson.
h Diversion in 1960 was all controlled drainage water.
i Estimated consumptive use on lands in the Delta Uplands considered as sub-irrigated from tidal channels during 1960 without a specific point of diversion.

TABLE 207

DIVERSIONS - SAN JOAQUIN RIVER
(Vernalis to Fremont Ford Bridge)
November 1959 through October 1960

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct Acre-Feet
			Nov.	Dec	Jan	Feb.	Mar	Apr.	May	June	July	Aug	Sept	Oct.	
--DURHAM FERRY BRIDGE--	76.7														
--GAGING STATION - SAN JOAQUIN RIVER NEAR VERNALIS--	76.7														
Cook Land and Cattle Company(a)	78.9	1-10"					1	320	162						483
Cruze, Consalves and Moresco	79.4R	1-20"					49	138	84	63	54	78	78	78	622
--STANISLAUS RIVER--	79.7R														
Faith Ranch	79.8R	b 1-16"											23		23
W. C. Blewett Estate	80.7L	1-12"			28		301	167	267	429	316	425	120		2053
W. C. Blewett Estate	81.8L	2-12" 1-14"	100		15		512	878	893	1240	1200	1110	661	69	6678
--GAGING STATION - SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE--	81.85														
Blewett Mutual Water Company	81.95L	1-10" 2-12"					704	696	527	817	1000	975	332	346	5397
El Solyo Water Company	82.0L	1-10" 3-18"				18	1930	2760	1840	2270	2780	2610	1500	314	16020
--GAGING STATION - SAN JOAQUIN RIVER AT HETCH HETCHY AQUEDUCT CROSSING--	82.65														
El Solyo Ranch	82.9L	1-16"						184		188	267	232	15		886
El Solyo Ranch	83.5L	1-12"					40	48	69	89	73	62	69		450
El Solyo Ranch	83.7L	1-12"					19	82		64	49	20			234
E. T. Mape	84.1R	c 1-4"								5					5
Faith Ranch	84.4R	1-20"	144				375	512	580	661	711	709	532	285	4509
E. T. Mape	89.5R	c 1-4"							10						10
--TUOLUMNE RIVER--	91.0R														
--WEST STANSIALUS IRRIGATION DISTRICT INTAKE CANAL--	91.8L														
--GAGING STATION - SAN JOAQUIN RIVER AT WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8L														
West Stanislaus Irrigation District	91.8L	1-12" 1-24" 6-26"	449	95	248	251	8610	10900	9140	11300	10600	9590	6090	1650	68920
Fred Lara #1	**(0.6S)	1-14"	9			24	75	63	128	300	298	290	170	97	1454
Frank Sarmento #1	**(0.7N)	2-16"					509	452	229	474	422	306	293	87	2772
Frank Sarmento #2	**(1.1N)	1-14" 1-16"					877	725	427	706	740	692	475	103	4745
Fred Lara #2	**(2.2S)	1-16"	21				12	20	59	70	73	53	64	18	390
Frank Sarmento #3	**(2.3N)	2-16"					293	279	262	449	509	358	209	179	2538
J. V. Staenstrup Estate	93.1R	2-12"					170	163	208	256	429	372	58		1656
Walter W. Crawford	93.2L	1-6"						NO DIVERSION							
Walter W. Crawford	93.4L	1-5"						NO DIVERSION							
George Covart	d 94.1L	1-6"	45				31	54	29	80	98	117	28	55	537

TABLE 207

DIVERSIONS - SAN JOAQUIN RIVER
(Vernalis to Fremont Ford Bridge) (contd.)

November 1959 through October 1960

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct Acre-Feet
			Nov.	Dec	Jan	Feb	Mar.	Apr.	May	June	July	Aug	Sept	Oct	
Rancho Dos Rios	94.7R	1-12"	121	9	86	51	153	282	336	400	494	507	333	236	3008
L. S. Crane	95.5R	1-16"	105	34			121	113	100	284	214	247	87	123	1428
Earl Wheatly	95.8R	1-10"					21	74	41	34	91	76	73		410
W. F. Cook	96.0L	1-18"	28			6	316	235	409	435	537	497	315	54	2832
--GAGING STATION - SAN JOAQUIN RIVER AT GRAYSON--	96.05														
--LAIRD SLOUGH BRIDGE--	96.05														
E. S. Brush	98.5R	1-7"		1			58	34	31	66	95	77	38		400
Rancho El Pescadero	98.9L	1-18"	59			81	241	451	206	379	436	399	185	26	2463
John C. Tosta	103.0L	1-14"					63								63
--GAGING STATION - SAN JOAQUIN RIVER AT PATTERSON BRIDGE--	104.4														
Patterson Water District	104.4L	1-14" 2-18" 3-20" 1-36"					5870	5790	6060	8500	9480	8430	4960	674	49760
Chase Brothers	104.5	1-10" 1-18"					2	365	276	367	255	444	169		1878
M. L. Simmons	104.52L	1-5"						6	6	5	2	6			25
--PATTERSON BRIDGE--	104.6														
Charles Kincaid	104.7L	1-2"							NO DIVERSION						
Chase Brothers e	106.5R	1-12"	49				398	143	372	547	305	522	375	108	2819
Tony Spinelli	109.1R	1-12"					26	31	48	53	40	48	62		308
Twin Oaks Irrigation Company	109.8L	1-12" 2-16" 1-18"		183	5		1080	1380	1710	1810	1960	1860	1110	91	11190
T. J. Henderson	110.8R	1-8"	16				27	106	13	44	97	156	137	125	721
J. Holtzman	112.5L	1-3"							NO DIVERSION						
L. A. Thomson	112.55R	1-18"	5	2	2		117	319	304	400	423	393	285	150	2460
Turlock Sportsmens Club	113.3R	1-2"							1	1	1	1			4
Frank C. Mosier	113.4R	1-10"	1				154	112	73	100	135	140	125	72	912
--GAGING STATION - SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE--	113.4														
Clyde Beatty	113.6L	1-4"					2	3	3	2	4	4	3	1	22
Alfred Silveira	113.85R	1-6"					9	7	4	8	9	6	6		49
Alfred Silveira	114.35R	1-7"					1	42	13	34	40	17	18		165
Hazel P. Crow	114.6L	1-2"						NO DIVERSION							
Frank C. Mosier	114.63R	1-4" 1-8"					121	114	72	83	122	115	79	9	715
Manuel A. Serpa	114.75R	2-10"					395	300	285	468	544	337	161		2490
--ORESTIMBA CREEK--	115.2L														
Roy F. Crow	115.8L	1-10"					30	32	189	60	140	152	36	33	672
L. B. Crow	116.05L	1-14"	47		21	4	105	62	148	177	137	171	136	28	1036
John W. Greer	116.2R	b 1-5"					24								24
John W. Greer	116.5R	1-12"	1				219	220	103	194	294	194	274	14	1513
Stevinson Water District	121.3R	1-18"					140	47	74	177	53	195	122	15	823
--MERCED RIVER SLOUGH--	122.2R														
--GAGING STATION - SAN JOAQUIN RIVER NEAR NEWMAN--	123.7														
--MERCED RIVER--	123.75R														
Stevinson Corporation	129.1R	1-16"	162	109			56	55	156	201	68	211	90		1108
VERNALIS TO FREMONT FORD Totals			1342	433	405	435	24320	28760	25450	34290	35600	33200	19900	5040	209700
Average cubic feet per second			23	7	7	8	396	483	422	576	579	540	334	88	289
Monthly use in per cent of seasonal			.6	.2	.2	.2	11.6	13.7	12.4	16.4	17.	15.8	.5	2.4	

* Mileage along San Joaquin River from its mouth 4½ miles below Antioch.

** West Stanislaus Irrigation District Intake Canal. The intake canal joins the San Joaquin River at Mile 91.8L. Distance from the San Joaquin River and bank is shown in parentheses.

a Formerly listed as A. J. Chisholm Estate.

b New installation in 1960.

c This is a portable unit which diverts water at Miles 0.4R and 1.2R on the Tuolumne River and at Miles 84.1R on the San Joaquin River.

d Pumping plant is located on old channel which joins the San Joaquin River at this mile.

e A 10" unit was removed in 1960.

TABLE 208

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

November 1959 through October 1960

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov -Oct Acre Feet
			Nov	Dec	Jan	Feb.	Mar.	Apr.	May	June	July	Aug	Sept	Oct.	
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5														
Wolfson Land and Cattle Company (a)	154.7R						NO RECORD AVAILABLE								
Erreca Farms (a)	161.4R	1-18"					NO RECORD AVAILABLE								
Erreca Farms (a)	161.9R	1-18"					NO RECORD AVAILABLE								
Oye Farms	162.9R	1-12"							12	25		75	59		171
Dye Farms (b)	163.2R	1-10"				1	224	43	109	213	302	177	85	6	1160
Central California Irrigation District I (c)	169.95L	1-12"					116			44	183	27			370
Dr. B. H. Menefee (d)	170.73R	1-16"								82	641	462			1185
Central California Irrigation District 3 (c)	e 172.9L	1-12"					13			12	7				32
Central California Irrigation District 2 (c)	185.6L	1-16"					185	213		448	202	176	232		1456
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS--	186.0														
San Louis Canal Company	186.6L	Gravity	4630	2720	663	3960	12300	16600	22000	26400	26300	25000	16700	7820	165100
--FIREBAUGH BRIDGE--	198.4														
Luke Zaninovich	206.02R	1-4"					9			11	16	11			46
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA--	206.2														
--MENDOTA DAM--	208.63														
Central California Irrigation District	208.8L	Gravity	9320	2150	389	8720	61600	61500	73900	83400	89400	84000	43600	21900	539800
--FRESNO SLOUGH--	209.0L														
--DELTA MENDOTA CANAL--	8(0.2L)														
Firebaugh Canal Company	8(0.4L)		2300	621	565	1250	8440	8130	10400	13800	12900	14000	6180	2610	81210
M. Jensen (f)	8(1.9R)						56	42	60	35	95	109	40	13	450
Paul Matheson (g)	8(3.2L)	1-10" 1-12"						NO DIVERSION							
M. L. Dudley (f) (h)	8(3.4L)	1-16"					479	379	252	512	738	300			2660
State of California Mendota Waterfowl Management (f)	8(6.45-8.20)		1530	1040			123	198	228	2390	2980	1640	2790	4520	17430
Fresno Slough Water District (f)	8(9.20-10.50)			4		111	823	111	232	726	694	666	139	20	3526
--JAMES BYPASS--	8(11.80R)														
Traction Water District (f)	88(0.75)		58			105	787	559	1090	1490	1420	1490	619	345	7960
Reclamation Diatrict 1606 (f)	88(1.50)					5	38	10	71	91	87	50	20		372
James Irrigation District (f)	88(4.4)					978	2430	2000	2740	3000	4490	4350	526		20510
Tranquillity Irrigation District (f)	8(12.00-13.75)			80		1060	4540	1620	2470	6090	6070	5270	1040	303	28540
Melvin D. Hughes (f)	8(12.20)					2		34	95	83	89	73			376
--LONE WILLOW SLOUGH--	219.8R														
Columbia Canal Company	219.8R		2020	657		1600	4390	7120	8970	8450	9010	6290	6370	2670	57540
--GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE--	219.83														
--GRAVELLY FORD CANAL--	232.8R														
FREMONT FORD BRIDGE TO GRAVELLY FORD Totals			19860	7272	1617	17790	96550	98560	122600	147300	155600	144200	78400	40210	929900
Average cubic feet per second			334	118	26	310	1574	1656	1998	2475	2536	2350	1317	655	1281
Monthly use in per cent of seasonal			2.1	0.8	0.2	1.9	10.4	10.6	13.2	15.8	16.7	15.5	8.4	4.3	

* Mileage along San Joaquin River from its mouth 4.5 miles below Antioch.
8 Plant is located on Fresno Slough which diverts from San Joaquin River at mile 209.0L. Distance from San Joaquin River and bank is 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 available.
b This is a portable unit which diverts water at Miles 102.90R and 163.20R.
c Central California Irrigation District plants at miles 169.95L, 172.90L and 185.60L supplement the district gravity supply.
d New installation in 1960.
e Installed prior to 1960. Not previously listed.
f Data furnished by U. S. Bureau of Reclamation.
g Publication discontinued. River water no longer accessible to this point of diversion.
h Formerly listed as Grace Brothers.

TABLE 209

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

November 1959 through October 196[illegible]

Water User	Mile and Bank (a)	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
W. A. Kochergen 1	233.66R	1-6"						24	39	[illegible]	66	45	41	3	275
W. A. Kochergen 2	234.22R	1-2"							5	6	8	6	4	.	3[illegible]
A. J. Wheeler	b 235.02	1-2½"													c
Ernest D. Hart	235.03L	1-3"													c
Dewey W. Johnson 1	235.33R	1-5" 1-8"		3			[illegible]	22	29	[illegible]5	44	44	27	.	23[illegible]
--GAGING STATION - SAN JOAQUIN RIVER NEAR BIOLA--	236.40R														
Dewey W. Johnson 2	d 236.42R	1-6"	1				12	12	23	35	37	27	27	5	179
Hansen, K. J. Smith, and R. C. McInturf	237.33L	1-8"	39				55		50	53	53	27		25	3[illegible]2
Thompson Materials and Construction Company, Incorporated	237.54R	1-8"					NONAGRICULTURAL USE								
J. A. Peterson	237.98R	1-6"	17				5	29	25	37	37	29	1		180
--SKAGGS BRIDGE--	238.18														
A. and M. Overgaard	243.84R	1-5" 1-6"	24				80	40	11	36	18	63	33	19	324
Y. H. Donny 1	244.86L	e 1-6"	35			1	48	26	10	39	44	1	2[illegible]	1	225
D. C. and P. Farms, Incorporated	245.36R	1-6"	30			16	80	31	44	46	47	42	30	3	375
Mrs. George Mordecai	245.63R	1-1½"						NO DIVERSION							
Y. H. Donny 2	245.81L	1-6"					24		7	13	23	11	7	1	86
Stewart and Nuss, Incorporated	246.85R	1-3"					NONAGRICULTURAL USE								
State of California, Department of Public Works	247.38R	1-4"					NONAGRICULTURAL USE								
Burgin and Sons	247.38R	1-4"					NONAGRICULTURAL USE								
--U.S. 99 HIGHWAY BRIDGE--	247.38														
G. Oberti and Sons	247.64R	1-5"						15		81	1	1	16	2	116
Mrs. Carl R. McKinley	248.51L	1-3"						NO DIVERSION							
--SANTA FE RAILROAD BRIDGE--	249.23														
River Rock Products	249.67L	1-4" 1-5"					NONAGRICULTURAL USE								
Miller Brothers	251.38L	1-1½"					NONAGRICULTURAL USE								
Miller Brothers	251.46L	1-6"	4	18			26	22	69	68	72	87	57	2	425
Premier Furs, Incorporated	251.68L	1-1"					NONAGRICULTURAL USE								
Stewart and Nuss, Incorporated	252.63L	1-4"					NONAGRICULTURAL USE								
J. W. Carrell 1	253.00L	1-8"	2				38	131	137	140	109	95	54	25	731
J. W. Carrell 2	253.30L	1-4"						NO DIVERSION							
Lloyd Conroy	253.79R	1-6"	10	1				20	27	20	24	10	5	3	120
Sycamore Island Stock Ranch 7	b 254.90	1-6"						NO DIVERSION							
L. L. Howard	254.93R	1-6"						12		50	49	41	7		159
Sycamore Island Stock Ranch 6	b 255.00	1-3"	1	1				3	7	7			4	1	24
Sycamore Island Stock Ranch 5	255.34R	1-6"						16	49	59	43	53	65	3	288
Sycamore Island Stock Ranch 4	b 255.84	1-5"								62	27	43	14		146
Sycamore Island Stock Ranch 3	255.93R	1-4"						26	22	32	32	27	25		164
Sycamore Island Stock Ranch 2	256.52R	1-8"							48	61	88	61	47	17	322
Pappas Brothers 1	257.10L	1-8"		15	6		14	27	28	108	115	106	24		443
Pappas Brothers 2	257.70L	1-12"		4	2			3	41	65	62	58	43	1	259
Griffith Construction Company	257.74L	1-6" 1-8"					NONAGRICULTURAL USE								
L. D. Cobb	258.08R	1-6" 1-7"					32	42	52	197	161	104	23		611
--STATE HIGHWAY 41 BRIDGE--	258.3[illegible]														
R. J. Curtis	258.34L	1-4" 1-7"					10		14	79	72	57	9	14	255
W. E. Roberts 1	258.80L	1-6"	2	1			9	18	23	60	43	41	33	15	24[illegible]
W. E. Roberts 2	258.90L	1-12"		2	1	1	20	35	41	108	87	69	56	31	451
J. E. Cobb	259.3[illegible]R	2-6"	2	5	3		21	34	31	94	78	81	40	25	414
--OLD LANES BRIDGE--	259.78														
Marjorie E. Sims	259.8[illegible]L	1-6"		1					13	71	52	27	1		16[illegible]
Anderson Rock Products	259.8[illegible]L	1-3"					NONAGRICULTURAL USE								
Hugo C. Gibson (f)	260.39L	1-6"							14	4					18
J. E. Cobb 3	26[illegible].4[illegible]R	1-[illegible]"	37	1			30	68	83	1[illegible]8	1[illegible]9	1[illegible]	115	59	736
San Joaquin Rock Company	260.9[illegible]L	1-3" 1-4"					NONAGRICULTUNAL USE								

TABLE 209
DIVERSIONS - SAN JOAQUIN RIVER
(Gravelly Ford to Friant Dam) (contd.)

November 1959 through October 1960

Water User	Mile and Bank (a)	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov-Oct Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr.	May	June	July	Aug	Sept	Oct	
R. C. Arnold	261.53R	1-4" 1-5"	36	12			39	40	67	100	107	91	77	43	612
Duane M. Folsom	261.70L	1-6"	35	7			9	78	73	131	182	181	42	9	747
E. G. Rank 3	b 261.75	1-5"					1	12		6	14	13			46
R. C. Arnold 3	261.78R	1-2½"	1	1											2
E. G. Rank 2	b 261.90	1-5"								20	28	22	1		71
E. G. Rank 1	b 262.07	1-6"								25	31	30	3		89
E. G. Rank, Jr. 1 (g)	262.27L	1-8"								34	39	66	7		146
E. G. Rank, Jr.	262.32L	1-5"	17	19			28	23	57	85	78	84	60	35	486
A. Brown	262.43L	1-5"	1	2	2	1	19	13	3	36	38	49	10	7	181
E. G. Rank	262.48L	1-5"					15	10						4	29
Dale McCoon 1	262.60R	1-5"								56	127	109	20		312
W. H. Rohoe	262.66L	1-7"					30	37	3	48	85	80	26		309
Dale McCoon 2	263.40R	1-7"						35	95	177	258	239	104	33	941
Dale McCoon 3	263.48R	1-6"	25				21	37	66	111	126	116	54	21	577
H. K. Jensen	263.76R	1-5"	38	33			42	60	63	91	105	101	67	42	642
Pacific Cement and Aggregate, Incorporated (h)	264.00L	1-6" 1-8"					NONAGRICULTURAL USE								
H. W. Ball 1	i 264.00L	1-5"							30	30	4				64
H. W. Ball 2	i 264.00L	1-5"					4	6	7	11	20	17	13	8	86
H. W. Ball 4	i 264.08L	1-6"						18	18	39	68	69	35	17	264
Ike D. Ball	264.60R	1-6"	66	15			30	57	82	115	119	120	106	72	782
W. F. Ball	264.83L	1-4" 1-5"	13	10			11	24	34	67	69	65	57	4	354
V. D. Roullard 1	265.38L	1-6"					NO DIVERSION								
V. D. Roullard 2	265.40L	1-5"						2	4	4	7	5	4	2	28
Virgil Durando	267.56L	1-8"	11				23	13	20	132	212	184	75	7	677
--GAGING STATION - SAN JOAQUIN RIVER BELOW FRIANT--	268.13L														
--FRIANT BRIDGE--	268.88														
Wishon-Watson Company	269.18R	1-8"	3	3				6	19	23	31	19	17		121
--COTTONWOOD CREEK--	269.53R														
--FRIANT DAM--	269.63														
GRAVELLY FORD TO FRIANT DAM															
Totals			450	165	14	19	781	1127	1583	3194	3349	3031	1592	561	15870
Average cubic feet per second			8	3	0	0	13	19	26	54	54	49	27	9	22
Monthly use in per cent of seasonal			2.9	1.0	0.1	0.1	4.9	7.1	10.0	20.1	21.1	19.1	10.0	3.6	

a Mileage along San Joaquin River from its mouth 4½ miles below Antioch.
b Point of diversion and place of use is on island in mid-stream.
c Domestic use (including family garden).
d Previously listed as Mile 236.28R.
e Replaces a 7" unit.
f New installation in 1960.
g Formerly listed as Duane M. Folsom.
h Previously listed as Pacific Cement and Aggregates Company.
i Plant is located on pond whose major source of supply is from the Pacific Cement and Aggregate, Incorporated plant at this mile.

TABLE 210

DIVERSIONS - MERCED RIVER
November 1959 through October 1960

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
--MILLS FERRY BRIDGE--	1.1														
Stevinson Water District #1	1.8R	1-16"					147	173	145	235	277	219	201	19	1416
Stevinson Water District #2	3.8R	1-18"	28	1		1	248	345	438	577	728	676	463	150	3655
Milton Gordon	4.3L	1-10"	7	9	2	3	15	19	43	41	54	64	45	22	324
--GAGING STATION - MERCED RIVER NEAR STEVINSON--	4.6														
Salvatore De Angelis	4.8L	1-12"						9	24	18	26	24	30		131
Maria De Angelis	5.8L	1-12					21	11	44	42	87	51	11		267
Stevinson Water District #3	7.7L	1-20"					261	991	664	820	1160	1160	989	321	6366
Manuel Clemintino	8.5L	1-12	6	8			60	36	16	60	50	38	13		287
Manuel Clemintino	8.9L	1-12"		13		1	21	44	54	65	71	90	19		378
Samuel B. McCullagh	9.4L	1-8"					65	76	72	120	163	145	30		671
Mrs. J. R. Jacinto (a)	9.6L	1-12"			2		73	32	79	123	85	150	90	43	677
Bob Adams	10.0R	1-8"					6	15	14	8	5	20			68
Mrs. J. B. Silva, (b) E. and J. Gallo Winery Ranch, L. Alves and A. Mattos	10.35L	1-10"	3				34	72	122	127	167	106	77	44	752
Bob Adams	10.4R	1-6"						11	7	7	9	9		6	49
John Vierra	10.8R	1-3"					7	13	9	15	15	18	16	12	105
Manuel Freitas	10.9L	1-12"	18				83	44	86	119	158	142	90	38	778
R. E. Prusso and John Vierra	10.9L	1-5" 1-8" 1-12"	3	41			89	43	74	107	90	97	42	43	629
Claude Hayes (c) (d)	11.3R	e 1-4"						2		2	2				6
E. and J. Gallo Winery Ranch	11.6L	1-6" 1-8"						PLANT REMOVED							
E. and J. Gallo Winery Ranch	11.6L	f 1-18"					172	190	131	442	386	115		100	1536
--MILLIKEN BRIDGE--	11.65														
Claude Hayes	11.65R	e 1-4" g 1-5"						12	14	12	12	14			64
Claude Hayes	12.0R	1-4"						PLANT REMOVED							
E. and J. Gallo Winery Ranch	12.35L	1-10"	31	3			16	24	6	76	88	20		47	311
Soren Husman	12.4L	1-6"	12			1	5	2	5	26	12	15	12	4	94
Claude Hayes	12.5R	1-12"	18				37	40	3	59	24	52		18	251
E. and J. Gallo Winery Ranch	12.85L	1-12"	117	1			52	67	24	252	239	96		126	974
Anthony C. Pires	14.3R	1-6"					15	9	10	14	15	14	13	2	92
J. M. Souza	14.5L	1-10"					24	38	39	63	61	88	37		350
Anthony C. Pires	14.8R	1-6"		1		9	3	1	11	16	11	14	11	4	81
Anthony C. Pires	15.4R	1-6"					11	6	1	8	6				32
A. H. Stafford	16.2R	1-7"						5	38	1	1	1			46
--RECORDING GAGE - MERCED RIVER NEAR LIVINGSTON--	16.49														
E. and J. Gallo Winery Ranch	16.5L	1-10"	54				37	73		139	104	63		38	508
C. J. Carpenter	17.05L	1-7" h 1-6"		5				14	10	29	27	37	22	3	147
S. P. Magsalay	18.1R	1-6"						9	3	17	7	3	6		45
Neal DeGraff	18.4L	1-6"		4			9	23	20	33	35	31	10	20	185
Harold S. Tuns	18.5L	1-4"		3			1	10	9	11	10	6	11	1	62
William Standridge	18.6R	1-6"						NO DIVERSION							
Elmer Pritchard	19.3R	1-6"						NO DIVERSION							
S. P. Magsalay	19.8L	1-6"						6		6		5			17
City of Livingston	19.8L	1-6"		1			3	3	1	6	5	5	2	2	28
E. Schmidt	20.3R	1-6"						18	21	22	22	20	8	9	120
J. E. Gallo	20.4L	1-7"	34	26			34	63		108	68	41		68	442
O. L. Carlson	20.6R	1-6"					8	12	20	33	31	22	17		143
--U. S. HIGHWAY 99 BRIDGE--	21.04														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	21.05														
Gallo Cattle Company	21.05R	1-6"		8				6	5	17	9				45
Gallo Cattle Company	22.2R	i 1-8" 1-16"	108	87	6	42	356	122	177	206	274	217	202	99	1896
Gallo Cattle Company	22.8R	1-12" 1-15"	15	9			67	170	146	192	206	167	87	47	1106
C. L. Hart	23.0L	j 1-6"						NO DIVERSION							
C. L. Hart	23.1L	j 1-6"						NO DIVERSION							
C. L. Hart	23.2L	j 1-6"							8	4	4	9	8		33
Norman Passadori	24.2R	1-6"					8	14	23	41	44	27	16	16	189
C. L. Ball	24.5L	1-6"						21	17	19	33	28		23	141
Joe Nishihara	25.0R	1-5"						9	5	24	51	39			128
Joe Nishihara	25.5R	1-6"								40	58	27	24		149

TABLE 210

DIVERSIONS - MERCED RIVER (contd.)
November 1959 through October 1960

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec.	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
Merced River Farma Association	26.3R	1-8"	1	2			17	54	55	80	74	67	39		389
W. C. Magneson	26.55R	1-3" k 1-5" 1-8"					12	23	40	36	[illegible]	31	44	14	245
W. C. Magneson	26.8R	1-3" 1-10"					INDUSTRIAL USE ONLY								
Joseph Vierra	26.8L	1-10"						2	7	2		56	27	[illegible]	96
--SANTA FE RAILROAD BRIDGE--	27.05														
W. C. Magneson	27.5R	1-10"					16	77	45	92	85	120	111	50	596
--GAGING STATION - MERCED RIVER AT CRESSEY--	27.55														
--CRESSEY BRIDGE--	27.55														
Joe Nishihara	27.8R	1-6"		1				2	9	4	9	16	3	[illegible]	45
Al and Harriet Wentzel	27.85L	1-1½"					1	3	3	3	6	4	1	1	22
M. Uyekubo	28.1R	1-5"	1	6	1					3	4	3	1		19
William R. Caylor (m)	28.4R	1-5"						8	10	1	15	8			42
J. Campadonica	28.6R	1-6"								17	17	7	8	7	56
Oliver Alvea	28.6R	1-6'								26	11	28			65
Mary Demichele (n)	29.1R	1-7"								50	3	30			83
Mary Demichele (n)	29.75R	1-6"							10	14	26				50
Manuel Silva (low lift)	29.9R	1-6"						65	36	42		71	34	22	270
Manuel Silva (high lift)	29.9R	1-10"						NO DIVERSION							
Frances I. Rose	30.7L	1-6"						10	10	18	15	12	12	9	86
Manuel Silva	30.95R	1-12"								145	120				265
W. F. Bettencourt	31.1L	1-8"		1					4	105	142	98			350
Manual Silva	31.4R	1-10"							17	26	17	22	13		95
Jack Pretzer	31.6R	1-6"						NO DIVERSION							
P. Hilarides	32.3L	1-12"	13				2	24	57	110	12	12	101	41	372
Jack Pretzer	32.4R	1-6"								5	10	13			28
--SHAFFER BRIDGE--	32.5														
Albert Chavas	33.1R	1-10"			15					22	103	112			252
R. A. Anderson (o)	33.55R	1-8"									63	6			69
Walter Bettencourt	34.4L	1-1½"					INDUSTRIAL USE ONLY								
W. F. Bettencourt, P. Hilarides and Cowel Lime and Cement Company	36.9L	Gravity	363	293	346	115	187	434	498	1040	1220	640	245	141	5522
Reinero Brothers (p)	39.1L	1-14"				16	125							77	218
Ratzlaff Brothers	40.2L	1-4"					15	25	30	49	54	58	16		247
River Rock Company	42.05R	1-8"					INDUSTRIAL USE ONLY								
--COX FERRY BRIDGE--	42.1														
Cowel Ditch	45.3R	Gravity	708	798	876	1030	764	1350	3060	4220	3860	3420	789	214	21090
--GAGING STATION - MERCED RIVER BELOW SNELLING--	46.2														
MERCED RIVER Totals			1540	1321	1248	1218	3127	4980	6529	10510	10890	9027	4046	1904	56350
Average cubic feet per second			26	21	20	21	51	84	106	177	177	147	66	31	78
Monthly use in per cent of seasonal			2.7	2.3	2.2	2.2	5.6	8.8	11.6	18.6	19.3	16.0	7.2	3.4	

a Formerly listed as J. R. Jacinto.
b Formerly listed as R. W. Adama, I. B. Silva, L. Alves, and A. Mattos.
c Formerly listed as M. Turner.
d This plant replaced the plant formerly listed at Mile 11.25R.
e. This is a portable unit which diverts water at Miles 11.3R and 11.65R.
f Replaces a 12" unit.
g Replaces a 3" unit.
h Replaces a 7" unit in April 1960.
i Replaces a 10" unit.
j This is a portable unit which diverts water at Miles 23.0L, 23.1L and 23.2L.
k Replaces a 6" unit.
m Formerly listed as John Faria.
n Previously listed as Anthony Demchille.
o Formerly listed as Cyrus O. Davajan.
p Re-installation in 1960 of a plant previously removed.

TABLE 211

DIVERSIONS - TUOLUMNE RIVER
November 1959 through October 1960

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug.	Sept	Oct	
E. T. Mape	0.4 R	a 1-4"						NO DIVERSION							
E. T. Mape	1.2 R	a 1-4"							10						10
E. T. Mape	1.3 R	1-20"	452	228	152	78	734	621	779	914	886	993	988	758	7583
J. V. Steenstrup Estate	1.9 L	1-12"					191	163	84	259	304	415	188		1604
J. DeSouza and J. B. Silva	2.2 R	1-6"					28	17	3	56	16	42	18		180
J. V. Steenstrup Estate	2.9 L	1-10" 1-12"		284			260	225	100	352	479	558	352		2620
-- GAGING STATION -- TUOLUMNE RIVER AT TUOLUMNE CITY (Shiloh Bridge) --	3.35														
Russell Murray	3.4 L	1-6"						7	9	10	11	15	11		63
Bancroft Fruit Farms	4.1 R	1-12"	12				4	17	21	20	12	28	21	1	136
Bancroft Fruit Farms	5.[illegible] R	1-10"	7		6	18	14	27	40	46	57	47	51	5	318
Della Battestin	5.9 L	1-14"	1				100	134	62	212	156	326	64	42	1097
Western Farms	6.3 L	1-16"	17				63	7	36	72	26	95	27		343
R. L. Maxfield	6.9 R	1-7"	2		2		13	32	16	26	28	20	12		151
Eugene Boone, Galen Hartwich and Dr. Harold Willis (b)	7.1 R	1-10"	3[illegible]	14	1		120	95	82	163	113	106	56	4[illegible]	822
W. F. Duffy	7.2 R	1-7"					23	14	32	18	14	6	4		111
W. F. Duffy (c)	7.5 R	1-10"										10	[illegible]		15
Ella T. Rahilly	7.8 L	1-10"						9	13	25	48	61	37		193
W. F. Duffy	8.4 R	1-10"					96	80	78	63	123	109	91	14	654
Ella T. Rahilly	8.5 L	1-10"						58	37	80	45	101	72	10	403
A. C. Watkins	9.4 L	1-12" d 1-20"					4		45	204	378	150	509	124	1414
McClure Ranches	9.[illegible] R	1-12"						166	84	149	117	101			617
Raymond Boone	10.2 R	1-14"					70	48	127	95	112	105	102		656
William Podesto	15.75R	1-5"						3	5	7	6	4			25
-- SEVENTH STREET BRIDGE--	15.75														
-- SOUTHERN PACIFIC RAILROAD BRIDGE --	15.8														
-- U. S. HIGHWAY 99 BRIDGE --	16.05														
-- GAGING STATION - TUOLUMNE RIVER AT MODESTO --	16.05														
-- DRY CREEK --	16.5 R														
-- EAST MODESTO BRIDGE --	19.3														
Homer W. Jorgensen (c)	19.4 L	1-2"									1				1
Jack Gardella	20.3 R	1-10"	12	1			25	28	62	60	65	80	34	13	380
H. W. Ortman	20.5 R	1-12"	17					13	42	14	10	23	41	6	166
Henry Codoni	20.85R	1-5"						PLANT REMOVED							
Harold Madden	20.9 R	1-4"							18	9	15	8	10		60
-- SANTA FE RAILROAD BRIDGE --	21.6														
-- SANTA FE BRIDGE --	21.65														
A. L. Leib	22.8 R	1-3" 1-6"	14	2			22	19	29	41	39	28	14		208
G. R. Trent	23.5 R	1-1½" 1-6	8				11	18	8	16	24	15	3	3	112
C. C. Blakesley	23.6 R	1-6"					3	8	5	10	6	8	5		45
John Palmer	25.8 L	1-3"	3				6		17	17	19	19	2		83
-- GEER AVENUE BRIDGE --	26.0														
Dr. Harold J. Schmidt	26.6 L	1-4"	4				3	11	11	17	16	13	13	12	100
Dr. Harold J. Schmidt	27.0 L	1-4"								4	11	9	6		[illegible]
Mervin Mattos and Charles Dird	27.3 R	1-10"						16	35	8	32	2	16	13	122
Standard Materials	27.3 L	1-3"						INDUSTRIAL USE ONLY							
Alan T. Buckley	27.9 R	1-1[illegible]"							6	13	10	6			35
Octavia McKwen	28.1 R	1-4"		5			15	6	8	17	20	11	7		91
Ronald R. Painter	28.3 R	1-7"							3	23	12	11			49
Santa Fe Rock and Sand	28.5 R	1-6"						INDUSTRIAL USE ONLY							
Michael Investment Company	28.8 R	1-8"	[illegible]	1			30	64	42	87	90	85	73	43	524
E. B. and D. U. Butterfield	28.9 R	1-10"	18							20	19	19			76
Hugh Merriam	29.1 R	1-8"						16	6	8	13	14		4	61
J. W. and Lola May Short	29.[illegible] L	e 1-5"							1						1
Charles Fairbairn	29.3 R	1-6"							37	27	41	11	[illegible]		141
J. W. and Lola May Short	[illegible] L	1-10"	1[illegible]	4			3	3	20	49	44	41	17		196
Virpo Ranch	30.[illegible] L	1-1[illegible]"	20	14			19	53	56	46	54	57	52	28	399
W. [illegible] Chase	30.4 R	1-4"						3	2	1	2	1	1		10
-- SOUTHERN PACIFIC RAILROAD BRIDGE - (Oakdale Branch)--	31.5														

TABLE 211

DIVERSIONS - TUOLUMNE RIVER (contd)
November 1959 through October 1960

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
a. R. Andrews	31.6 L	1-[illegible]"							1	1	1	1	1	1	6
R. E. Proctor	31.7 R	1-2½"						NO DIVERSION							
-- GAGING STATION - TUOLUMNE RIVER AT NIGHMAN BRIDGE --	31.7														
A. G. Laughlin	34.2 R	1-3" 1-6"								5	5	6	1	2	1[illegible]
Donald Ketcham	38.4 R	1-1½"	2				2	6	8	14	11	1[illegible]	8	2	63
A. E. Ketcham	39.4 R	1-8"	1	1	10		5	53	8[illegible]	100	94	0[illegible]	8[illegible]	31	5[illegible]4
George N. Sawyer	39.8 L	1-6"					7	15	37	63	40	23	12	[illegible]	198
-- GAGING STATION - TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE --	39.9														
George N. Sawyer	40.8 L	1-14"	2	4			29	33	61	122	134	121	57	13	576
W. A. Hall	43.3 L	1-6"								0	7				1[illegible]
Curtner Zanker	45.7 L	1-10"	3	71					61	124	141	94	39	48	581
Dolling Brothers	46.3 R	1-8"	12				12	26	59	98	8[illegible]	108	57	4[illegible]	478
O. E. Fine	46.7 L	1-6"		1					13	9	3	4	3		33
-- GAGING STATION - TUOLUMNE RIVER AT LA GRANGE --	50.5														
TUOLUMNE RIVER Total			655	630	171	6[illegible]	1912	2111	2400	3803	3992	4215	3206	1238	24440
Average Cubic Feet per Second			11	1[illegible]	3	2	31	3[illegible]	39	6[illegible]	6[illegible]	69	54	2[illegible]	34
Monthly use in per cent of Seasonal			2.[illegible]	[illegible]	.7	.4	7.8	8.6	9.8	15.5	16.3	17.3	13.7	5.1	

a. This is a portable unit which diverts water at Miles 0.4R and 1.2R on the Tuolumne River and at Miles 81.4R and 89.5R on the San Joaquin River.
b. Formerly listed as Eugene Boone, Galen Hartwich and Tony Lemos.
c. New installation in 1960.
d. Replaced 12" unit in May 1960.
e. Replaces a 7" unit.

TABLE 212

DIVERSIONS - DRY CREEK
November 1959 through October 1960

Water User	Mile and Bank Above Mouth	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan	Feb.	Mar	Apr	May	June	July	Aug	Sept.	Oct.	
Podesto and Arata	0.4R	1-6"					3	28	50	53	24	43	4		2[illegible]
--MODESTO EMPIRE TRACTION COMPANY RAILROAD BRIDGE--	[illegible]														
--STATE HIGHWAY 132 BRIDGE--	0.8														
--LA LOMA AVENUE BRIDGE--	1.2														
--EL VISTA AVENUE BRIDGE--	2.9														
Henry La Barbero	5.0L	1-3"	1	1				3	4	5	2	1	1		18
James L. Melrose	5.1R	1-1½"						PLANT REMOVED							
--GAGING STATION - DRY CREEK NEAR MODESTO--	[illegible].3														
--CLAUS ROAD BRIDGE--	5.[illegible]														
--SANTA FE RAILROAD BRIDGE--	6.4														
--CHURCH STREET BRIDGE--	7.2														
--WELLSFORD ROAD BRIDGE--	8.7														
R. F. Nunes	9.7R	[illegible]-1½"					1	2	1	2	2	1	1		1
K. D. Weaver	10.4R	1-6"						NO DIVERSION							
Roy Brandt	10.6R	1-[illegible]"						NO DIVERSION							
--ALBERS ROAD BRIDGE--	11.[illegible]														
--MODESTO IRRIGATION DISTRICT CANAL CROSSING--	11.1														
R. A. Isenberg (a)	12.[illegible]5L	1-6"						NO DIVERSION							
Edward Johnson	12.1R	1-6"						NO DIVERSION							
Edward Johnson	12.6R	1-6"	1		1		7	27	43	35	5[illegible]	66	45	33	314
Edward Johnson	12.7R	1-6"	1	1[illegible]				34	6[illegible]	75	107	1[illegible]6	39	34	4[illegible]
R. A. Isenberg (b)	13.4L	1-3"												3	3
Aaron F. Layman	14.4L	1-6"						3		3	[illegible]	1			[illegible]
Joe Fagundes	14.7R	1-10"			1			77	9[illegible]	110	15[illegible]	1[illegible]	13	43	708
H. H. French	17.2R	1-8"								16	19	20			55
--OAKDALE-WATERFORD HIGHWAY BRIDGE--	17.4														
DRY CREEK Totals			3	16	2		11	174	257	299	367	345	220	113	18[illegible]
Average cubic feet per second			0	0	0		0	3	4	5	6	6	4	[illegible]	[illegible]
Monthly use in percent of seasonal			[illegible]	1.[illegible]	[illegible]		1.[illegible]	1[illegible]	14.5	16.8	[illegible]	[illegible].4	1.4	[illegible]	

a. Formerly listed as Joe Fagundes, Jr.
b. Re-installation in October 1960 of a plant previously removed. Formerly listed as Irene Lucksinger.

TABLE 213

DIVERSIONS - STANISLAUS RIVER
November 1959 through October 1960

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov-Oct Acre-Feet
			Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	
Roy Moresco	0.3R	1-6"					13	15		22	33	27	5		115
E. W. Hawkins	0.9R	1-6"						36	2	10	13	8	2		71
--GAGING STATION - STANISLAUS RIVER NEAR MOUTH--	1.9														
A. J. Chisholm Estate and C. N. Carroll	1.9R	1-16"					19	41	1	48	23	46	19		197
C. C. Angyal	2.4R	1-18"					119	229	95	199	307	240	62	71	a 1322
Faith Ranch	3.4L	2-12"	130	10	4		651	390	838	880	403	670	816	449	5241
Reclamation District 2064	4.0R	1-14" 1-16" 2-20"	228	134			1410	1380	1470	1900	2340	2210	1110	763	12950
Reclamation District 2075	4.05R	2-16" 1-20"	669	115	25		2140	2240	2680	3040	3310	3280	2850	1200	21560
D. P. Koetitz	4.7L	1-14"					181	224	288	59	679	266	225	75	1997
Louis W. Pelucca	4.8L	1-14"				1	9	17	12	20	10	81	9		159
Henry Pelucca	5.5L	1-16"					107	51	132	97	219	121	19	20	766
Alfred Pelucca (b)	5.8L	1-12"						2							2
C. C. Updike	6.4L	1-2" 1-12"	4	1			12	29	30	68	49	67	28	6	294
D. J. Macedo	8.4R	1-16"	65				274	203	258	406	416	396	248	109	2375
N. E. Cannon	8.7R	1-10"	4	5	1	2	178	170	209	266	331	304	203	102	1775
D. P. Koetitz	9.4L	1-10"	32	3			254	254	376	402	433	350	323	35	2462
--GAGING STATION - STANISLAUS RIVER AT KOETITZ RANCH--	9.5														
John L. Hertle	9.8L	1-10"		9			34	19	42	37	52	55	36	7	291
Nelson Santos	10.0R	1-16"								55	93	65	32		245
Nelson Santos	10.5R	1-16"								72	101	71	34		278
John L. Hertle (c)	10.7L	1-10"								12		10	7	4	33
H. E. Van Veldhuizen	12.7R	1-12"					18	19	15	37	35	23	21	1	169
Dick Bus	12.8L	1-1½"									1	1	1	1	4
Modesto Sand and Gravel Company	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			167	62	99	137	270	208	246		1191
E. J. Preethy	18.9R	d 1-2"								4	5				9
E. J. Preethy	19.0R	1-14"	15				46	80	79	158	194	184	110	55	921
E. J. Preethy	19.5R	d 1-2"						NO DIVERSION							
Libby, McNiel and Libby	20.9R	1-14"	1				26	224	105	386	368	283	156		1549
Heath Ranch	21.2L	1-6"	13	15			42	49	44	56	88	56	42	31	436
Thomas Lyon (c)	23.4L	1-8"							22	22	36	39	12		131
Mae Giovanetti Smith	e 24.2L	1-6"						7	5	11	10	7	6		46
G. W. Deyoe	27.2L	1-4"						NO DIVERSION							
Claude and Lucile McClain	29.3R	f 1-8"						17	17	17	13	11		4	79
--MODESTO-ESCALON HIGHWAY BRIDGE--	29.6														
F. K. Ploden	29.9L	1-10"					4	65	67	74	81	24	28	36	379
--SANTA FE RAILROAD BRIDGE--	33.4														
--GAGING STATION-STANISLAUS RIVER AT RIVERBANK--	33.6														
Elmer Christensen (c)	34.7R	1-4"						8							8
R. P. Barton (c)	35.4L	1-4"						9	1	8	1	3			22
B. V. Harmon (c)	36.0L	1-2½"						2	5	5	5	4	3		24
R. P. Barton	36.2R	1-7"						21	21	30	28	29	5		134
Oakdale Irrigation District (Crawford Pump)	g 37.7L	1-14"					118	148	55	253	227	205	61	15	a 1082
Martin Markiewith	37.75R	1-2"						NO DIVERSION							
Van Norman Ranch	38.0L	1-4"									13	6	9		28
Mrs. Mary P. Mendo	38.2L	1-4"						1	6	5	7	6			25
Oakdale Irrigation District (Brady Pump)	g 39.1L	1-12"			7	15	72	123	81	176	168	214	67		a 923
--OAKDALE-STOCKTON HIGHWAY BRIDGE--	41.2														
--SOUTHERN PACIFIC RAILROAD (OAKDALE BRANCH)	41.2														
--GAGING STATION-STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE--	47.0														
Mrs. Harry Himes	49.2L	1-3"	1	1			7	7	16	18	22	19	15	12	118
E. N. Jensen	50.5L	1-6"		7			10	13	23	30	28	28	30	13	182
Westley Milam	51.6R	1-4"					1	6	8	11	8	16	8	2	60

TABLE 213

DIVERSIONS - STANISLAUS RIVER (contd.)
November 1959 through October 1960

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov	Dec	Jan.	Feb.	Mar	Apr	May	June	July	Aug	Sept	Oct	
Standard Rock Company	51.8L	1-10"						INDUSTRIAL USE ONLY							
Walter B. Wilms	52.0L	1-10"						NO DIVERSION							
--KNIGHTS FERRY BRIDGE--	54.5														
STANISLAUS RIVER															
Totala			1162	302	37	18	5912	6161	7102	9031	10420	9633	6848	3011	59650
Average cubic feet per second			20	5	1	0	96	104	116	152	169	157	115	49	82
Monthly use in per cent of seasonal			1.9	.5	.1	0	9.9	10.3	11.9	15.2	17.5	16.2	11.5	5.0	

a Includes an undetermined amount of water returned to river by spill.
b Formerly listed as J. W. Updike.
c New installation in 1960.
d This is a portable unit which diverts water at Miles 18.9R and 19.5R. This unit replaces the 3" and 4" units (portable) formerly listed at this location.
e This is a portable unit which diverts water between Miles 24.2L and 25.8L.
f Replaces a 5" unit.
g Oakdale Irrigation District for season of 1960 maintained plants of Miles 37.7L and 39.1L to supplement district gravity supply.

TABLE 214

DIVERSIONS - TULE RIVER
November 1959 through October 1960

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversion in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
Pioneer Ditch	a 0.3R	Gravity	184	559	1010	797	589	864	1340	863	51				6257
Rosedale Water Company	1.5L	1-5"	17	9				14	21	45	28	14			148
Lois Cottle and Carl Brown	1.65L	1-3"	5	3				5	7	10					30
--GAGING STATION - TULE RIVER AT WORTH BRIDGE--	2.2														
Boydston Brothers	2.6L	1-4"	37	32	20			35	50	58	13				245
Campbell-Moreland Ditch	b 3.2L	Gravity	93	357	451	1290	758	794	1300	421	4				5468
--PORTER SLOUGH--	3.2R														
--GAGING STATION - PORTER SLOUGH AT PORTERVILLE (B LANE BRIDGE)--	3.2R(2.4)														
--PIONEER SPILL-- (c)	3.2R(3.7R)														
Porter Slough Ditch	d 3.2R	Gravity		2	232	162	138	2	57						593
--GAGING STATION - PORTER SLOUGH NEAR PORTERVILLE (NEWCOMB ROAD)--	3.2R(6.1)														
Vandalia Ditch	e 3.9L	Gravity			187	362	241	231	287						1308
--SANTA FE RAILROAD BRIDGE--	5.9														
Poplar Ditch	f 6.6L	Gravity			107	1320	1770	1870	3490	270					8827
--STATE HIGHWAY 190 BRIDGE--	6.7														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.8														
Hubbs-Miner Ditch	g 7.2R	Gravity				595	732	895	1340	333					3895
--STATE HIGHWAY 65 BRIDGE--	7.4														
Rhodes-Fine Ditch	h 9.2L	Gravity						NO DIVERSION							
--OLIVE AVENUE BRIDGE--	10.7														
--FRIANT-KERN CANAL CROSSING--	11.3														
Woods-Central Ditch	i 11.8L	Gravity				421									421
--GAGING STATION - TULE RIVER BELOW PORTERVILLE AT ROCKFORD AVENUE BRIDGE--	12.6														
--HUBBS-MINER SPILL-- (j)	12.9R														
Little Pioneer Ditch	15.0L	Gravity						NO DIVERSION							
--OTTLE BRIDGE--	15.2														
TULE RIVER															
Total			336	962	2007	4947	4228	4710	7892	2000	96	14	0	0	27190
Average cubic feet per second			6	16	33	86	69	79	129	34	2	0	0	0	37
Monthly use in percent of seasonal			1.2	3.5	7.4	18.2	15.5	17.3	29.0	7.4	0.4	0.1	0.0	0.0	

a Flow measured at gaging station on Pioneer Ditch located approximately 1.0 mile below head.
b Flow measured at gaging station on Campbell-Moreland Ditch located approximately 2600 feet below head.
c 1861 acre feet of water flowed into Porter Slough as follows: November 4, December 137, January 653, February 488, March 219, April 115, May 206, June 39.
d Flow measured at gaging station on Porter Slough Ditch located approximately 150 feet below head.
e Flow measured at gaging station on Vandalia Ditch located approximately 1000 feet below head
f Flow measured at gaging station on Poplar Ditch located approximately 4750 feet below head.
g Flow measured at gaging station on Hubbs-Miner Ditch located approximately 3400 feet below head.
h Flow measured at gaging station on Rhodes-Fine Ditch located approximately 3100 feet below head.
i Flow measured at gaging station on Woods-Central Ditch located approximately 100 feet below head.
j 364 acre feet of water flowed into the Tule River as follows: February 87, March 44, April 127, May 99, June 7.

TABLE 215

DIVERSIONS - EAST SIDE CANALS AND IRRIGATION DISTRICTS*

November 1959 through October 1960

Water User	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total	Acreage Irrigated General	Acreage Irrigated Ri
						San Joaquin River									
Friant-Kern Canal															
Total acre-feet diverted	10013	0	198	14608	69942	37558	32053	115295	110657	87339	45598	22515	545776		
Average cubic feet per second	168	0	3	254	1137	631	521	1938	1800	1420	766	366	752		
Monthly use in per cent of seasonal	1.8	0	0	2.7	12.8	6.9	5.9	21.1	20.3	16.0	8.4	4.1			
Madera Canal															
Total acre-feet diverted	0	60	0	0	19460	6371	67	42296	58456	17048	0	0	143758		
Average cubic feet per second	0	1	0	0	316	107	1	711	951	277	0	0	198		
Monthly use in per cent of seasonal	0	0	0	0	13.5	4.4	0	29.4	40.7	11.9	0	0			
						Merced River									
Merced Irrigation District															
Main Canal	0	0	0	0	15449	61243	78182	97134	104540	62258	0	0	a418806	b102716	
Northside Canal	0	0	20	0	619	3057	3646	4643	5153	3439	591	504	21672	b3741	
Total acre-feet diverted	0	0	20	0	16068	64300	81828	101777	109693	65697	591	504	440478		
Average cubic feet per second	0	0	0	0	261	1081	1331	1710	1784	1068	10	8	607		
Monthly use in per cent of seasonal	0	0	0	0	3.6	14.6	18.6	23.1	24.9	14.9	0.1	0.1			
						Tuolumne River									
Turlock Irrigation District															
Total acre-feet diverted	15980	6070	266	1077	41409	67587	52294	89038	78135	60829	43652	12294	c468831	d169979	
Average cubic feet per second	269	99	4	19	673	1136	850	1496	1271	989	734	200	646		
Monthly use in per cent of seasonal	3.4	1.3	0.1	0.2	8.8	14.4	11.2	19.0	16.7	13.0	9.3	2.6			
Modesto Irrigation District															
Total acre-feet diverted	6234	7735	183	120	15395	43436	22435	38676	41042	32482	12749	3814	e224301	f67482	
Average cubic feet per second	105	126	3	2	250	730	365	650	667	528	214	62	309		
Monthly use in per cent of seasonal	2.8	3.4	0.1	0.1	6.9	19.4	10.0	17.2	18.3	14.5	5.7	1.7			
Waterford Irrigation District															
Total acre-feet diverted	0	0	0	0	1744	4461	6010	5906	5270	4563	3777	750	g32481	h7323	
Average cubic feet per second	0	0	0	0	28	75	98	99	86	74	63	12	45		
Monthly use in per cent of seasonal	0	0	0	0	5.4	13.7	18.5	18.2	16.2	14.0	11.6	2.3			
						Stanislaus River									
Oakdale Irrigation District															
Northside Canal	0	0	0	0	5576	11671	18677	19233	17720	14207	9234	0	96318	120486	
Southside Canal	0	0	0	0	8711	19531	26859	28690	26489	22220	15568	0	148068	j35076	
Total acre-feet diverted	0	0	0	0	14287	31202	45536	47923	44209	36427	24802	0	244386	k55562	
Average cubic feet per second	0	0	0	0	232	524	741	805	719	592	417	0	337		
Monthly use in per cent of seasonal	0	0	0	0	5.8	12.8	18.6	19.6	18.1	14.9	10.1	0			
South San Joaquin Irrigation District															
Total acre-feet diverted	0	0	7092	15112	14710	39660	36897	46962	43599	36276	25291	[illegible]34	265833	m60970	
Average cubic feet per second	0	0	115	263	239	667	600	789	709	590	425	4	366		
Monthly use in per cent of seasonal	0	0	2.7	5.7	5.5	14.9	13.9	17.7	16.4	13.6	9.5	0.1			
						American River									
Natomas Water Company															
Total acre-feet diverted	2234	2072	1758	1961	2298	2719	[illegible]690	2610	[illegible]565	2081	1299	1189	25476		
Average cubic feet per second	38	34	29	34	37	46	44	44	42	34	22	19	35		
Monthly use in per cent of seasonal	8.7	8.1	6.9	7.7	9.0	10.7	10.6	10.[illegible]	10.1	8.[illegible]	5.1	4.7			
San Juan Suburban Water District															
Total acre-feet diverted	2471	1761	1260	2230	3292	4382	4695	4280	3570	3044	1349	1098	33432		
Average cubic feet per second	42	29	20	39	54	74	76	72	58	50	23	18	46		
Monthly use in per cent of seasonal	7.4	5.3	3.8	6.7	9.8	13.1	14.0	12.8	10.7	9.1	4.0	3.3			

* Data furnished by water users and rounded according to criteria applied by the department.

a An additional 119,000 acre-feet of water was pumped from wells.

b Of the acreage, [illegible],713 was double cropped. Does not include an undetermined amount of riparian water users acreage.

c An additional 174,912 acre-feet of water was pumped from wells.

d Of this acreage, [illegible]0,3[illegible]1 was double cropped.

e An additional 8[illegible],700 acre-feet of water was pumped from wells.

f Of this acreage, [illegible],518 was double cropped.

g An additional 3,667 acre-feet of water was pumped from wells.

h Of this acreage, 539 was double cropped.

i Of this acreage, 397 was double cropped.

j Of this acreage, 945 was double cropped.

k This acreage also received 53,208 acre-feet of water from wells and controlled drainage.

m 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, 4,2[illegible]2 was double cropped. Includes 1,331 acres served by subirrigation.

TABLE 216

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS*

November 1959 through October 1960

Water User	Mile Post from Canal Head From	To	Monthly Deliveries in Acre-Feet Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
								Contra Costa Canal							
a Costa County Water District															
dustrial and Municipal			4539	4452	3860	2886	3171	3679	4674	7173	8247	7944	7394	6764	64783
icultural			191	155	44	14	29	313	826	1162	1114	1028	412	220	5508
al			4730	4607	3904	2900	3200	3992	5500	8335	9361	8972	7806	6984	70291
								Delta-Mendota Canal							
View Water District	3.54	20.00	125	67	41	15	1969	2472	2346	3486	3768	3761	2499	858	21407
Side Irrigation District	14.79		0	0	0	0	381	622	49	247	853	203	0	0	2355
-Carbona Irrigation District	20.42		0	0	0	0	0	1436	0	711	1986	500	169	0	4802
tal Water District	18.05	30.96	161	30	153	64	2582	3398	2728	4362	5021	3926	2075	1070	25570
Stanislaus Irrigation trict	31.31		0	0	0	0	0	5258	255	3965	8246	5776	0	0	23500
Canon Water District	31.31	35.18	160	8	0	48	635	1326	798	1209	1936	1241	234	222	7817
uerto Water District	35.73	42.08	152	535	111	0	1317	1457	1250	2358	2277	2161	1092	310	13020
rson Water District	42.51		39	0	0	0	371	566	454	719	548	382	379	122	3580
o Water District	42.10	46.83	0	1	111	56	570	1938	748	1712	2268	1236	536	180	9356
ower Water District	44.23	52.02	0	7	81	187	1284	1469	1503	1839	2303	1600	572	408	11253
imba Water District	46.83	51.50	56	1	1	122	795	2372	1280	1641	2900	1649	547	136	11500
ill Water District	51.65	57.46	2	3	0	0	606	815	897	918	1334	1279	642	157	6653
Water District	54.01	56.82	0	2	0	0	317	337	262	946	637	456	229	74	3260
ng Water District	56.83	62.67	0	3	0	0	641	1040	1125	1425	1755	799	310	88	7186
o Water District	63.96	67.55	0	16	10	0	172	546	468	503	1442	1066	563	261	5047
o Water District	66.70	68.03	0	0	0	0	32	210	123	314	476	457	355	133	2100
uis Water District	69.21	90.57	1080	663	416	1277	7493	7718	6480	9904	11539	9116	3239	2621	61546
land Water District	70.00		3023	0	0	0	0	0	0	0	0	0	2676	9795	15494
land Water District (a)	Pool		6409	1142	0	0	0	0	0	0	0	0	6616	21634	35801
Fish and Game	70.00		0	0	0	0	0	0	0	0	0	0	0	0	0
as Land and Cattle Company	70.00											17	33	0	50
amburg Farms (M&I)	90.91		1	1	1	1	2	2	3	3	4	3	3	2	26
he Water District	93.25		618	1476	3966	6447	9738	5426	4692	12158	11672	10041	3137	1863	71234
Field Water District	93.27	94.57	0	193	0	312	309	368	546	618	707	680	258	46	4037
oma Water District	95.50	96.62	35	14	0	0	87	824	607	693	822	614	10	178	3884
Side Golf Association (M&I)	95.95		8	5	1	1	2	6	7	10	12	12	8	7	79
Springs Water District	97.70	98.70	9	0	0	0	348	118	601	517	932	980	49	0	3554
n Water District	102.03		0	0	0	0	211	189	498	345	398	360	19	0	2020
view Water District	102.95		1019	498	367	2460	2421	1792	2147	3132	3198	2483	993	748	21258
al			12897	4665	5259	10990	32283	41705	29867	53735	67034	50798	27243	40913	377389
Deliveries, DMC to endota Pool			21949	4913	3225	21983	99870	104503	124288	153166	163829	152100	81859	43787	975472
								Millerton Lake							
o County Water District #18			2	1	0	1	3	4	8	14	17	18	13	6	87
on Association			0	0	0	0	0	0	0	0	1	0	0	0	1
al			2	1	0	1	3	4	8	14	18	18	13	6	88
								Madera Canal							
a Irrigation District	6.10	32.2	0	0	0	0	11486	1142	0	26664	38563	7145	0	0	85000
Ranch	20.4		0	0	0	0	0	0	0	0	0	67	89	92	248
hilla Water District	35.9		0	0	0	0	5245	6028	0	13333	19976	10418	0	0	55000
al			0	0	0	0	16731	7170	0	39997	58539	17630	89	92	140248

TABLE 216

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS* (contd.)

November 1959 through October 1960

Water User	Mile Post from Canal Head		Monthly Deliveries in Acre-Feet												Total
	From	To	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
								Friant-Kern Canal							
Round Mountain Ranch	20.22		6	0	0	0	4	4	10	12	14	16	9	4	79
Orange Cove Irrigation District	34.80	54.30	619	0	0	0	605	3247	3136	6962	7625	7279	3961	1613	35047
City of Orange Cove	43.44		4	0	0	0	2	14	29	38	47	41	33	7	215
Stone Corral Irrigation District	56.90	64.40	75	0	0	0	349	968	534	1888	2049	1864	617	153	8497
Ivanhoe Irrigation District	65.04	66.46	355	0	0	0	202	1081	1379	1502	1168	1244	1494	736	9161
Tulare Irrigation District	68.14		0	0	0	0	0	0	0	15926	15484	0	0	0	31410
Exeter Irrigation District	72.52	80.63	801	0	0	180	762	1549	1331	2073	1912	1730	1176	664	12178
Lindsay-Strathmore Irrigation District	85.56		2112	0	198	26	1073	2707	3023	4491	4943	4600	3745	2471	b 29389
Lindmore Irrigation District	86.17	91.12	2158	0	0	266	2844	2949	2682	6191	5917	5371	4671	2898	35947
Porterville Irrigation District	93.86	98.62	111	0	0	411	853	928	575	1607	2299	1541	744	131	9200
Lower Tule Irrigation District	92.13	98.62	932	0	0	0	16659	0	230	16154	13900	11693	6154	0	65722
Saucelito Irrigation District	100.64	107.45	464	0	0	428	3043	908	793	3594	4949	4860	1196	188	20423
Tea Pot Dome Water District	99.35		0	0	0	0	0	0	0	0	0	179	167	73	419
Terra Bella Irrigation District	102.65	103.64	339	0	0	0	159	853	948	1460	1654	1855	1535	1093	9896
Delano-Barlimart Irrigation District	109.46	118.45	4633	6	0	1807	17054	10626	7668	21918	21247	15900	7172	4578	112609
Southern San Joaquin Municipal Utility District	117.44	127.97	3243	177	0	724	16735	7910	5905	18484	16495	16858	7339	3545	97415
Shafter-Wasco Irrigation District	134.4	137.2	1734	1127	0	686	7448	2565	2537	10163	8737	8626	3221	1406	48250
Pacific Gas and Electric Company	150.83		290	411	0	0	0	0	0	0	0	0	0	0	701
Total			17876	1715	198	4528	67792	36309	30780	112463	108440	83657	43234	19560	526558

* Data furnished by U. S. Bureau of Reclamation
a Delta-Mendota Canal water delivered via Delta-Mendota Pool.
b Includes water transported from Wutchumne Ditch.

TABLE 217

EXPORTATIONS FROM SACRAMENTO-SAN JOAQUIN DELTA*

November 1959 through October 1960

Water User	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
						Cache Slough							
City of Vallejo													
Total acre-feet	939	827	675	476	617	966	1280	1550	1580	1590	1560	994	13050
Average cubic feet per second	16	13	11	8	10	16	21	26	26	26	26	16	18
Monthly use in per cent of seasonal	7.2	6.3	5.2	3.6	4.7	7.4	9.8	11.9	12.1	12.2	12.0	7.6	
						Old River							
Contra Costa Canal													
Total acre-feet	5106	5112	4316	3141	4578	4342	6033	9523	10400	9881	8482	7571	78480
Average cubic feet per second	86	83	70	55	75	73	98	160	169	161	142	123	108
Monthly use in per cent of seasonal	6.5	6.5	5.5	4.0	5.8	5.5	7.7	12.1	13.2	12.6	10.8	9.6	
Delta-Mendota Canal													
Total acre-feet	35320	10760	11340	33100	135600	150400	159200	217700	241400	208700	111600	89120	1404000
Average cubic feet per second	593	175	185	576	2210	2527	2595	3657	3935	3402	1875	1453	1934
Monthly use in per cent of seasonal	2.5	0.8	0.8	2.4	9.7	10.7	11.3	15.5	17.2	14.9	7.9	6.3	

* Data furnished by water users and rounded according to criteria applied by the Department.

TABLE 218

DESCRIPTION OF SALINITY OBSERVATION STATIONS

1959-60 Water Year

Station	Miles from Golden Gate (a)	Time Interval (b) Hours	Min.	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	05	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 junction 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 219

MAXIMUM OBSERVED SALINITY AT BAY AND DELTA STATIONS

In parts of chloride per million parts of water*

Station (a)	Water Year											
	1931	1938	1939	1944 b	1952	1954	1955	1956 c	1957	1958	1959	1960
Sacramento-San Joaquin System Unimpaired Runoff in per cent of average (d)	34	188	40	62	168	94	63	175	82	166	66	70
					San Francisco, San Pablo and Suisun Bays							
Point Pinole					14200	15600	19000	16200	17300	13800	17200	16400
Crockett					13200	16000	16600	15300	15100	11900	15000	13500
Benicia				13900	10400	14000	15100	12300	13900	12100	19200	13000
Martinez	16900	11600	16400		8900	11800	11900	11900	9570	7150	10200	8750
West Suisun					7900	12800	12600	11200	11800	7520	13200	11100
Innisfail Ferry	14000	3300	13600	7900	4200	6900	5780	5200	6050	3040	9640	6610
Port Chicago					6900	10900	12500	9750	10200	5830	15640	10700
Spoonbill Creek	13900	2560	11800	7300	2800	5670	6400	4040	3920	930	6270	5040
Pittsburgh					1200	4580	7800	3440	3050	1200	5110	3700
					Sacramento River Delta							
Collinsville	12600	860	10400	4700	783	4520	3880	2280	2690	550	5430	4500
Emmaton						1380	1080	158	452	29	2600	1580
Threemile Slough Bridge	8600		5900	1610	175	818	635	56	277	18	1480	807
Rio Vista Bridge	7400		4050	550	175	126	158	21	20	17	219	87
Isleton Bridge	6350		2500	50	125	28	23	17	14	14	20	19
					San Joaquin River Delta							
Antioch	12400	510	9200	4000	354	3430	3320	1270	1850	184	3410	2800
Antioch Bridge						1970	2360	160	1630	122	2570	1490
Jersey Island						1480	1130	152	602	52	1220	e
Threemile Slough						960	428	82	180	45	1900	451
Oulton Point						395	376	105	186	44	567	406
San Andreas Landing						123	98	66	51	46	248	125
Opposite Central Landing	4250	100	1380	200	250	75	36	96	40	17	46	58
Dutch Slough	5100	110	2250	690	88	688	454	107	250	110	1044	548
East Contra Costa Irrigation District			320	140	152	200	196	173	551	333	356	227
Clifton Court Ferry	1300		190		112	160	146	146	146	126	211	173
Mossdale Bridge	120	120	160	130	122	209	224	206	205	219	261	318
Vernalis (f)					121	198	231	202	182	146	297	206

* Ocean water contains approximately 18,200 parts per million.
a For location see Plate 2.
b Releases of stored water from Shasta Lake commenced in 1944.
c Releases of stored water from Folsom Reservoir commenced in 1956.
d Average taken as mean annual unimpaired flow at foothill stations of major tributaries for 50-year period October 1907 through September 1957.
e No record for 1960. Unable to obtain local observer.
f Station located above tidal action.

TABLE 220

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS**

In parts of chloride per million parts of water

Station	October 1959							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole		14000		14600		13400	13600	
Crockett	11300	13000	12500	12600	13000	10200	11400	11500
Benicia	9720	10300		8330	10700	7640		9170
Martinez		7690	a 8480	7740	6490	6540	7030	7740
West Suisun	a 6260	8110				5820		
Innisfail Ferry	3620	3770	a,b 3930	3970	4070		a 4010	a 4420
Port Chicago	a 6780	7400	6940	7010	8040	b,d 3960	7550	
Spoonbill Creek	1600	1950	1900	2150	2150	1630	2080	2040
Pittsburg		a 1020		1220	1710	a 849	2360	
			Sacramento River Delta					
Collinsville	623	a 740	a 908	961	2060		1700	2360
Emmaton	69	189	b 170	260	363	a 66	217	105
Threemile Slough Bridge	24	29	b 22	34	44	28	24	23
Rio Vista Bridge	12	15	b 17	12	11	9	10	14
Isleton Bridge	13	14	b 9	11	11	18	11	10
			San Joaquin River Delta					
Antioch	280	524	a 362	588	740	486	580	382
Antioch Bridge		297	b 104	69	395	162	* 125	72
Threemile Slough	30	a 24	a 26	28	31	a 19	22	24
Oulton Point	28	a 26	a 27		34	a 19	b 22	23
San Andreas Landing	21	a 21	a 19	18		a 18	19	20
Opposite Central Landing	14	15	a 10	14	16	10	15	11
Dutch Slough	a 65	a 52	a 51	52	46	a 44	44	43
East Contra Costa I. D.	a 122	a 65	a 106	a 104	a 104	116	106	128
Clifton Court Ferry	a 80	a 73		a 67			80	
Mossdale Bridge	a 273	a 191	a 177	a 191	a 135	a 159	127	*,a 140
Vernalis (g)	d 181	d 182	d,e 191	d,e 206		b,d 145	b,d 143	d 180

Station	November 1959							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole	13800		14100		14000			13500
Crockett	12400	* 10500	12300	12300	10800	10200	12100	13000
Benicia	9660	* 8590	8250	9580	10300	8160	10200	10700
Martinez	7270	7370	7640	6980	7220	5660	8230	8700
West Suisun	9120	6260		b,d 4580	8400	5570	6700	
Innisfail Ferry	a,b 3950	3950	4170	4010	a 4200	4290	4140	d 3730
Port Chicago	7100	6360	7210		7310	6130	6520	7970
Spoonbill Creek	2080	1880	1750	2340	2340	2060	2440	2700
Pittsburg	2410	a 1520	2450	2550	2830			2370
			Sacramento River Delta					
Collinsville	1570	a 844	1330	1620	1660	1070	1160	
Emmaton	256	243	d 266	b 335	a 193	b,d 131	179	525
Threemile Slough Bridge	78	34	a 37	31	56	30	25	75
Rio Vista Bridge	14	11	9	10	11	11	18	12
Isleton Bridge	12	12	9	9	8	9	9	10
			San Joaquin River Delta					
Antioch	904	a 495	645	877	1020	424		1120
Antioch Bridge	327	a 78	106	443	* 85		230	306
Threemile Slough	29		27	d 30	a 24	22	25	41
Oulton Point	28	a 25		b 34	31	24	28	32
San Andreas Landing	20	a 23	22	a 19	22	22	17	d 22
Opposite Central Landing	10	a 12	15	13	58	14	20	16
Dutch Slough	*,a 38	a 38	39	40	a 38	40	40	a 41
East Contra Costa I. D.	a 60	*,a 68	74	a 81	a 90	98	e 99	88
Clifton Court Ferry	a 98	a 129			a 132			140
Mossdale Bridge	a 132	a 135	128	a 127	a 151	137	a,b 144	a 166
Vernalis (g)			d 142					

** Samples taken at four-day intervals approximately one and one-half hours after high high tide.
* 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 220

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS**

In parts of chloride per million parts of water

Station	December 1959							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole	13800		a 13200	13500	13900	13300		13000
Crockett	12300	11400	13000	b 11600	10600	11700	10900	12500
Benicia	9010	7810	10500	10800	9080	8470	9740	11400
Martinez	8160	7580	8180	d 7950	7660	8360	7640	8600
West Suisun	8300	7000	6670				7450	
Innisfail Ferry	a 4140	4160	a 4880	4660	a 4050	4360	a 4570	
Port Chicago	8740		a 6310		7110	6760	5430	9040
Spoonbill Creek	2800	2740	3290	3090	3190	2950	3480	3020
Pittsburg	2300	1920	3380	2610	a 2420		2580	3700
			Sacramento River Delta					
Collinsville	2240	3130	2300	2260	a 1110	1610	2240	
Emmaton	483	377	556	a,b 411	558	467		a,b 351
Threemile Slough Bridge		64	175	61	193	d 78	107	278
Rio Vista Bridge	12	10	14	13	16	8	13	26
Isleton Bridge	12	a 11	10	12	10	8	10	13
			San Joaquin River Delta					
Antioch	1440	820	1370	1080	967	750	1080	1250
Antioch Bridge	249	205	568	385	749		290	170
Jersey Island								
Threemile Slough	a 28	26	45	45		42	37	54
Oulton Point	42	35	55	b 42	a 37		50	
San Andreas Landing	d 26	19	26	14	a 25	22	25	30
Opposite Central Landing		12	11	24	a 11	12	13	12
Dutch Slough	a 39	45	48	a 57	a 35	58	68	69
East Contra Costa I. D.	a 102	101	95		a 99	100	117	a 133
Clifton Court Ferry				a 132				
Mossdale Bridge	a 154	137	b,d 137	a 120	d 103	116	109	a 162
Vernalis (g)						d 108		

Station	January 1960							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole		d 12700		13500	a 12300	12700	d 13600	
Crockett	12900	b,d 10900	12000	10700	9670	10500	*,a 9830	9220
Benicia		7230	11000		6100		8710	5660
Martinez	8750	7920	7880	6580				
West Suisun	3980		7540		4500			* 3160
Innisfail Ferry	d 4810	4790	4320	a 4500	4270	a 4380	a 4430	a 4000
Port Chicago		7020	7580	6600	4200	6830	6980	3390
Spoonbill Creek	251	204	280	177	113	137	141	50
Pittsburg	d 1570		2790	1220	556	1750	1450	
			Sacramento River Delta					
Collinsville	a 1260	858	1380	780	346	861		a 141
Emmaton		b,d 297	325	b 103	61	e 47	56	a 40
Threemile Slough Bridge	72	44	86	33	26	24	25	20
Rio Vista Bridge	11	20	18	10	12	12	12	13
Isleton Bridge	10	11	11	11	9	11	14	11
			San Joaquin River Delta					
Antioch	771	672	1080	486	118	288	294	98
Antioch Bridge	a 92	190	128	98	a 54	110		64
Jersey Island								
Threemile Slough	a 34					38		
Oulton Point	a 29	49	a 36	34	36	35	33	39
San Andreas Landing	a 30	27	32	29	a 38	37	38	a 40
Opposite Central Landing	a 9	15	13	11	a 16	19	15	12
Dutch Slough	a 69		63	65	a 74	72	77	a 88
East Contra Costa I. D.	a 142	b 144	149	a 167	173	b,d 176	a 179	a 176
Clifton Court Ferry				a 121	131	128	a 144	
Mossdale Bridge	a 133	155	a 101	a 115	118	b,d 126	a 165	a 167
Vernalis (g)		d,e 153	a,c 137	b,d 119	b,d 151	d 166	a 181	a,e 165

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

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS**

In parts of chloride per million parts of water

Station	February 1960							
	2	6	10	14	18	22	26	
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole			d 4890		d 5440		10100	
Crockett			4120	2400	3860	5790	8770	
Benicia	6960	5590	1730	729	1750	4700	6090	
Martinez								
West Suisun			1630	384	634		4540	
Innisfail Ferry	2790	1730	a 2020	a 1690	750	a 906	482	
Port Chicago	3780		216	* 43	409	2550		
Spoonbill Creek	455	177	85	5	52	78	87	
Pittsburg	363	70	48	31	28	39	58	
			Sacramento River Delta					
Collinsville	107	38	24	34	17	22	34	
Emmaton	27	18	20	11	10	16	22	
Threemile Slough Bridge	30	16	8	6	13	12	18	
Rio Vista Bridge	11	16	6	10	9	14	14	
Isleton Bridge	15	16		4	6	10	11	
			San Joaquin River Delta					
Antioch	110	67	59	40	30	37	38	
Antioch Bridge	a 61	54	57	56	a 53	52	60	
Jersey Island								
Threemile Slough	32		29		33	31	33	
Oulton Point	31	32	37	b 36	26	33	32	
San Andreas Landing	33	33	25	42	28	17	a 19	
Opposite Central Landing	15		6	10	11	9	12	
Dutch Slough	80	96	93	114	118	98	94	
East Contra Costa I. D.	187	207	227	a 222	216	d 212	a 222	
Clifton Court Ferry	173		a 170	a 100			a 116	
Mossdale Bridge	180	140	a 144	a 67	119	a 136	a 179	
Vernalis (g)	d 170	d,e 151	d,e 146		b,d 132	b,d 160		

Station	March 1960							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole	d 9820		9440	6830		10200	a 10300	a 8250
Crockett		7640	5580	3380	b 5030	6400	7050	4890
Benicia	3950	4050	2020	1210	3440	4150	4010	3070
Martinez								
West Suisun	1820	2510		132	681			672
Innisfail Ferry	864	695	a 1090	1090	a 1250	802	a 750	552
Port Chicago	1780	2150	349	59	461	1030	995	1220
Spoonbill Creek	106	96	67	a 43	48	38	a 53	a 48
Pittsburg	67	46		a 34	21		a 22	
			Sacramento River Delta					
Collinsville	34	36	14	a 12		16	a 14	14
Emmaton	38	29	7	a 8	10	10	d 11	10
Threemile Slough Bridge	22	14	10	8	10	11	8	8
Rio Vista Bridge	21	12	6	7	8	9	8	9
Isleton Bridge	10	14	7	6	11	8	7	6
			San Joaquin River Delta					
Antioch	a 53	51	42	a 37	a 29	25	a 20	21
Antioch Bridge	a 70	57	47	a 39	a 41	29	b 22	a 24
Jersey Island								
Threemile Slough	33	29	23		18	15	a 11	14
Oulton Point	31	29	b 18	21	18	13	a 12	13
San Andreas Landing	24	22	9	a 14	13	6	10	10
Opposite Central Landing	14	9	5	a 5	11	7	6	8
Dutch Slough	88	89	68	65	52	41	34	26
East Contra Cost I. D.	206	183	a 158	b 115	134	87	62	58
Clifton Court Ferry				154	86			
Mossdale Bridge	206	169	a 215	208	288	289	318	264
Vernalis (g)								

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

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS**

In parts of chloride per million parts of water

Station	April 1960							
	2	[illegible]	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole		a 8810			a 10800	a 11800		
Crockett	3450	a,e 6620	9910	7870	7830	9700	9720	8680
Benicia		a,e 5660	4300	4430	6040	5790	8280	d 5780
Martinez								
West Suisun		2920	e 4600	3580		1360	4550	3140
Innisfail Ferry	796	755	785	651	679	627	755	a 784
Port Chicago	146	3150	b 2740	2170			5240	
Spoonbill Creek	20	20	74	39	66	243	364	578
Pittsburg	17							
			Sacramento River Delta					
Collinsville	15	a 16		17	21	a 29	138	144
Emmaton	8	a 6	11	15	17	a 15	35	27
Threemile Slough Bridge	13	7	8	11	6	10	8	8
Rio Vista Bridge	8	9	11	12	7	7	9	10
Isleton Bridge	5	4	8	13	7	7	7	8
			San Joaquin River Delta					
Antioch	20	20	a 24	a 23	34	a 42	a 104	69
Antioch Bridge	a 19	b 24	a,b 25	a 27	23	a 23	a 35	
Jersey Island								
Threemile Slough	8	a 9		a 8		a,d 14	a 15	
Oulton Point	12	a 11	a 11	7	10	a 9	14	12
San Andreas Landing	0		a 9	7	7	a 10	8	7
Opposite Central Landing		a 6	11	10	7	a 8	a 8	0
Dutch Slough	26	a 30	a 24	20	19	a 18	17	16
East Contra Costa I. D.	46	a 42	40	32	35	27	a 24	27
Clifton Court Ferry		41	32	31	27	27	18	
Mossdale Bridge	204	a 196	248	204	239	204	211	128
Vernalis (g)								

Station	May 1960							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole		a 13200	a 12500		a 10300		a,d 11700	
Crockett	7550	8400	10200	b 9360	9480	b 10600	9240	9380
Benicia	d 5490	a,d 5470	d 7960	d 7620	d,e 6430	d 9580	a 6750	5690
Martinez								
West Suisun	3630	4850	6950	5750	4540	8910	3920	1040
Innisfail Ferry	849	896	946	a 1270	1200	1240	1060	5460
Port Chicago		2570	5050	5390	3330			3840
Spoonbill Creek	433	149	258	353	360	343	498	528
Pittsburg								298
			Sacramento River Delta					
Collinsville	57	a 31	a 66	274	a 98		168	223
Emmaton	18	a 13	19		a 18	a,b,d 32	56	d 31
Threemile Slough Bridge	11	11	a 16	13	12	13	12	13
Rio Vista Bridge	8	13	13	12	11	12	10	14
Isleton Bridge	11	10	11	9	11	10	10	8
			San Joaquin River Delta					
Antioch	58	a 51	a 48	120	a 82	a 112	121	111
Antioch Bridge	35	a 38	a 32	a 45	a 36	a,d 43	36	43
Jersey Island								
Threemile Slough	15		a 12	a,d 13		a 15	a 13	a,d 12
Oulton Point	13	a 12	13	12	a 14	a,b 11	17	14
San Andreas Landing	8	a 11	a 10	14	a 10	15	11	16
Opposite Central Landing	7	a 11	a 11	13	a 14	a 13	10	8
Dutch Slough	d 20	a 28	a 17	d 19	a 21	a,d 25	22	25
East Contra Costa I. D.	22	a 35	23	d 33	a 34	22	b 20	25
Clifton Court Ferry	28		21			23		
Mossdale Bridge	142	151	237	255	a 177	211	171	194
Vernalis (g)								

** Samples taken at four-day intervals approximately one and one-half hours after high high tide.
* 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 220

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS**

In parts of chloride per million parts of water

Station	June 1960							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole	a 10800	a 13300						
Crockett	9000		11100	10400	12200	13500	11600	11700
Benicia	7700	9960	10400	8260	b 9760	10100	11500	9130
Martinez								
West Suisun	6300	b 9110	4220	8430	9650	9920	11100	9880
Innisfail Ferry	1210	1420	2430	2490	2640	a 2850		a 3080
Port Chicago	5640	7750	a,d 3890		5480	8280	9360	7620
Spoonbill Creek	438	1490	1420	1680	2240	2140	3300	2880
Pittsburg	a 209			a 955		b,d 1460		d 1480
			Sacramento River Delta					
Collinsville	a 81	a 323	a 817	a 1270	a 1200	a 1530	a 2130	a 1810
Emmaton	a 20	a 38	210	a,d 129	a,d 135	186	864	438
Threemile Slough Bridge	14	12	23	31	37	58	102	73
Rio Vista Bridge	11	12	11	15	12	29	16	14
Isleton Bridge	11	10	7	14	10	12	10	a 11
			San Joaquin River Delta					
Antioch	a 92	a 157	626	a 535	a 383	a 1050	1340	a 1010
Antioch Bridge	a,d,e 49	a 57	a 56	a 88	a 158	a 375	a 345	a 485
Jersey Island								
Threemile Slough	a 16		a 14	a 28		a 45	a 53	a,d 79
Oulton Point		a 17	a 17	a 31	a 24	a,b 79	122	
San Andreas Landing	a 11	a 12	11	a 13	a 15	a 17	d 20	a 24
Opposite Central Landing		a 12	a 13	14	a 15	a 13	12	a 10
Dutch Slough	a 25	a 34	29	a 28	a 52	73	197	a 148
East Contra Costa I. D.	a 19	a 30	b 20	a 18	20	22	28	a 48
Clifton Court Ferry								
Mossdale Bridge	a 190	211	231	a 248	221	242	268	a 150
Vernalis (g)								

Station	July 1960							
	2	6	10	14	18	22	26	30
			San Francisco, San Pablo, and Suisun Bays					
Point Pinole				a 14400	a 15300	a 12900	a,d 15900	
Crockett								
Benicia		11600	12300	10200	11500	12300	11800	11100
Martinez								
West Suisun								
Innisfail Ferry	3580	4090	a 4340	* 4690	a 4650	a 4820	a 4750	4600
Port Chicago	6820	b 9870	10300	8380	6620	9880	9380	8410
Spoonbill Creek	a 2430	a 3670	a 4160	a 3320	a 3580	a 4140	4120	a 4580
Pittsburg								
			Sacramento River Delta					
Collinsville	a 1590		3440	a 2180	a 2290		3760	a 2850
Emmaton	a 240	a 443	1280	a 682	a 624	a 792	1580	a 1200
Threemile Slough Bridge	87	137	260	144	232	* 220	* 480	316
Rio Vista Bridge	19	25	25	23	26	33	15	14
Isleton Bridge	10	8	11	11	11	10	10	17
			San Joaquin River Delta					
Antioch	a 752	a 913	2240	a 1180	a 1145	a 1540	2460	a 1710
Antioch Bridge	a 438	a 464	a 711	425	a 444	a 1490	a 935	776
Jersey Island								
Threemile Slough		a 109	a 150		a,d 125	a 249	a,d 254	
Oulton Point	a 67	b 181	170	a 119	a 74	a 188	406	a 200
San Andreas Landing	a 16	a 34	37	a 29	a 50	a 80	105	a 68
Opposite Central Landing	a 11	a 13	13	a 11	a 15	a 8	31	a 9
Dutch Slough	a 134	a 223	240	a 208	a 203	252	353	a 394
East Contra Costa I. D.	a 39	43	50	a 67	81	89	94	a 99
Clifton Court Ferry								
Mossdale Bridge	a 155	267	184	a 213	167	133	108	a 159
Vernalis (g)								

** Samples taken at four-day intervals approximately one and one-half hours after high high tide.
* 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 220

SALINITY OBSERVATIONS AT BAY AND DELTA STATIONS**

In parts of chloride per million parts of water

Station	August 1960							
	2	6	10	14	18	22	26	30
	San Francisco, San Pablo, and Suisun Bays							
Point Pinole	a 16400		d 15300					
Crockett								
Benicia	* 12700	12600		11200	10000	12300	10600	
Martinez								
West Suisun								
Innisfail Ferry	b 5830	5780	a 5560	a 6000	a 5690	a 6130	a 6610	a 6210
Port Chicago	b 10300	10300	8110	10700	10100	10200	* 9600	10100
Spoonbill Creek	a 4315	a 4950	5020	a 5020	a 4840		4460	4630
Pittsburg								
	Sacramento River Delta							
Collinsville	a 2810		a 3350		a 2950	a 4500		a 3070
Emmaton	a 719	a,b 1310	a 2100	a 1190	a 1050	b 810	1590	a 1040
Threemile Slough Bridge	b 274	582	400	b 400	674	595	807	b 393
Rio Vista Bridge	b 53	60	20	b 42	87	13	36	a 13
Isleton Bridge	b 11	14	11	b 12	19	13	12	b 11
	San Joaquin River Delta							
Antioch	a 1340		a 2470	a 1950	a 2150	a 2130	2800	a 1800
Antioch Bridge	a 626	a 1280	733	a 837	a 916	a 1400	1160	a 940
Jersey Island								
Threemile Slough	a 242	a 243	a 451	a 327	a 324	a 332	a 306	
Oulton Point	a 205	388	a 350	a 278	a 225	371	a 178	
San Andreas Landing	a 81	98	a 102	a 24	a 125	a 107	a 78	a 82
Opposite Central Landing	a,d 18	a 18	15	a 16		28	a 17	a 15
Dutch Slough	a 287	a 397	a 505	*,a 565	*,a 495	548	a 499	a 479
East Contra Costa I. D.		134	a,b 146	a 138	181	188	a 194	a 196
Clifton Court Ferry								
Mossdale Bridge	a 195	213	a 230	a 225	203	181	a 250	a 267
Vernalis (g)								

Station	September 1960							
	2	6	10	14	18	22	26	30
	San Francisco, San Pablo, and Suisun Bays							
Point Pinole		a 15900		a 16300				15200
Crockett			13100		*,a,e 11800	13400	12800	13500
Benicia	9690	13000	12000	e,d 11500	11000	9450	9790	10500
Martinez								
West Suisun								
Innisfail Ferry	a 6430	a 6360	a 3890	a 6320	a 5450	a 5390	a 5500	a 5720
Port Chicago	10700	9200	8550	a 6880	8550	7450	10100	a 8060
Spoonbill Creek	a 5040	a 4080	3450	a 3170	a 3100	2980	2700	a 3250
Pittsburg								
	Sacramento River Delta							
Collinsville	a 3100	2700	a 1990	a 1880	a 1760	1590	a 1480	a 1900
Emmaton	a 1040	1120	a 452	a 310	a,d 238	445	548	a 421
Threemile Slough Bridge	692	386	286	b 126	a 90	90		a 81
Rio Vista Bridge	22	11	a 13	b 16	15	21	16	a 18
Isleton Bridge	12	14	14	b 16	11	13	11	a 15
	San Joaquin River Delta							
Antioch	a 2180	a 2300	1740	a 819	a 986	1100	1380	a 1000
Antioch Bridge	a 986	a 1310	638	a 390	a 381	248	a 462	a 238
Jersey Island								
Threemile Slough	a 301	a 214	a 143		a 103	d 79	a 61	a 84
Oulton Point			119	a 88		80	83	a 69
San Andreas Landing		a 45	a 53	a 40	a 63	15	a 34	a 14
Opposite Central Landing	a 18		a 19	a 18	a 16		a 12	a 14
Dutch Slough	a 455	a 452	*,a 357	a 298	a 233	a 188	a 152	a 145
East Contra Costa I. D.	a 188	197	a 190	a 194	a 188	a 170	a 166	a 135
Clifton Court Ferry				a 138		a 120	a 111	
Mossdale Bridge	244	250	a 260	a 242	a 242	a 234	a 263	a 241
Vernalis (g)								

** Samples taken at four-day intervals approximately one and one-half hours after high high tide.
* 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 221

DAILY MEAN GAGE HEIGHTS
SACRAMENTO RIVER AT KESWICK

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	10.0	8.9	8.5	11.0	7.8	8.0	11.8	11.0	17	8.9	8.5	7.8	9.0	7.2	10.4	11.7	13.4
2	10.0	8.5	8.5	11.2	7.8	8.0	11.8	11.8	18	8.9	8.5	7.9	8.9	7.2	10.5	11.7	13.5
3	9.9	8.5	8.5	8.7	7.8	8.0	11.8	12.1	19	8.9	8.5	7.9	8.9	7.2	10.9	11.8	13.5
4	9.2	8.5	8.6	8.7	7.8	7.9	11.8	12.1	20	8.9	8.5	7.9	8.3	7.2	11.0	11.7	13.5
5	9.2	8.5	8.0	8.9	8.3	7.9	11.8	12.1	21	8.9	8.5	8.1	8.2	7.2	11.0	12.0	13.5
6	9.2	8.5	7.9	8.0	8.2	7.9	11.8	12.1	22	8.9	8.5	8.3	8.4	7.2	11.7	12.1	13.7
7	9.2	8.5	7.9	8.2	8.5	7.9	11.8	12.1	23	8.9	8.5	7.9	8.3	7.2	12.4	12.1	13.7
8	9.2	8.5	7.9	12.1	8.0	7.9	11.8	12.2	24	8.9	8.5	7.9	8.3	7.2	12.4	11.4	13.8
9	9.2	8.5	7.9	12.4	7.3	7.9	11.7	12.6	25	8.9	8.5	8.7	8.3	7.2	12.4	10.2	13.7
10	9.2	8.5	7.8	11.6	7.2	7.9	11.7	12.8	26	8.9	8.5	9.0	8.3	7.2	12.4	10.2	13.7
11	8.9	8.5	7.9	11.6	7.2	7.9	11.7	12.8	27	8.9	8.5	8.5	8.3	7.2	12.3	10.2	13.9
12	8.8	8.5	7.8	10.4	7.2	8.2	11.7	12.8	28	8.9	8.5	9.1	8.3	7.2	11.8	10.2	14.0
13	8.9	8.5	7.8	10.4	7.2	8.5	11.7	12.8	29	8.9	8.5	8.7	8.3	7.2	11.8	10.2	14.0
14	8.9	8.5	7.8	10.4	7.2	9.1	11.7	12.8	30	8.9	8.5	8.2		8.0	11.8	10.2	14.0
15	8.9	8.5	7.8	10.1	7.2	10.0	11.7	13.0	31		8.5	7.9		8.0		10.3	
16	8.9	8.5	7.8	9.9	7.2	10.4	11.8	13.1									

Crest Stages:				
	Date	2- 1-60	2- 8-60	6-29-60
	Time	11:30 AM	2:45 PM	8:30 AM
	Stage	12.8	12.9	14.1

NR — No Record

TABLE 222

DAILY MEAN GAGE HEIGHT
CLEAR CREEK NEAR IGO

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	2.4	2.4	2.5	5.2	3.2	4.0	3.7	3.4	17	2.4	2.5	2.6	3.7	3.9	3.3	3.1	2.9
2	2.4	2.4	2.5	5.0	3.1	3.8	3.6	3.3	18	2.4	2.5	2.6	3.6	3.9	3.2	3.1	2.9
3	2.4	2.4	2.5	4.8	3.5	3.8	3.6	3.3	19	2.4	2.5	2.6	3.6	3.8	3.2	3.1	2.9
4	2.4	2.4	2.5	4.6	3.9	3.7	3.5	3.2	20	2.4	2.5	2.6	3.5	3.8	3.2	3.0	2.8
5	2.4	2.4	2.5	5.0	5.4	3.6	3.4	3.2	21	2.4	2.5	3.2	3.4	3.7	3.2	3.0	2.8
6	2.4	2.4	2.5	4.5	5.9	3.6	3.4	3.2	22	2.4	2.5	3.6	3.4	3.7	3.2	3.0	2.8
7	2.4	2.4	2.6	5.3	6.0	3.6	3.4	3.2	23	2.4	2.7	3.2	3.4	3.6	3.2	3.6	2.8
8	2.4	2.4	2.7	7.3	5.5	3.5	3.3	3.1	24	2.4	3.0	3.2	3.3	3.6	3.2	3.8	2.8
9	2.4	2.4	2.7	6.4	4.9	3.5	3.3	3.1	25	2.4	2.8	4.3	3.3	3.6	3.2	4.0	2.7
10	2.4	2.4	2.7	5.6	4.6	3.4	3.2	3.1	26	2.4	2.7	4.4	3.3	3.6	3.2	4.2	2.7
11	2.4	2.4	2.9	5.0	4.4	3.4	3.2	3.0	27	2.4	2.6	3.9	3.2	3.6	4.5	4.0	2.7
12	2.4	2.5	2.8	4.6	4.3	3.4	3.2	3.0	28	2.4	2.6	4.5	3.2	3.8	4.1	3.8	2.7
13	2.4	2.5	2.7	4.3	4.3	3.3	3.2	3.0	29	2.4	2.6	3.9	3.2	3.6	3.8	3.7	2.7
14	2.4	2.5	2.7	4.1	4.2	3.3	3.2	3.0	30	2.4	2.5	3.9		4.3	3.7	3.6	2.7
15	2.4	2.5	2.6	4.9	4.1	3.3	3.1	2.9	31		2.5	3.6		4.1		3.5	
16	2.4	2.5	2.6	3.8	4.0	3.3	3.1	2.9									

Crest Stages									
	Date	1-26-60	2- 1-60	[illegible]- 3-60	2- 5-60	2- 8-60	3- 5-60	3- 7-60	3-30-60
	Time	2:00 AM	1:00 PM	4:30 PM	7:00 AM	4:45 AM	8:00 PM	9:00 AM	6:00 AM
	Stage	5.0	6.[illegible]	5.3	5.3	[illegible].6	7.0	6.9	5.3

NR — No Record

TABLE 223

DAILY MEAN GAGE HEIGHT
COTTONWOOD CREEK NEAR COTTONWOOD

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	3.3	3.3	3.2	6.3	3.7	4.0	3.6	3.5	17	3.2	3.2	3.3	4.3	4.4	3.6	3.4	3.2
2	3.2	3.3	3.2	6.4	3.7	3.9	3.6	3.5	18	3.3	3.2	3.3	4.3	4.3	3.6	3.4	3.2
3	3.3	3.2	3.2	6.2	3.7	3.9	3.6	3.5	19	3.3	3.2	3.3	4.2	4.3	3.6	3.4	3.2
4	3.3	3.2	3.2	6.3	4.6	3.9	3.6	3.5	20	3.3	3.2	3.3	4.1	4.2	3.5	3.4	3.2
5	3.3	3.3	3.2	6.0	5.3	3.9	3.5	3.4	21	3.3	3.2	3.3	4.0	4.2	3.5	3.4	3.2
6	3.3	3.3	3.2	5.4	6.4	3.9	3.5	3.4	22	3.3	3.2	3.7	4.0	4.2	3.4	3.4	3.2
7	3.3	3.3	3.2	7.8	6.5	3.9	3.5	3.4	23	3.3	3.2	3.6	3.9	4.2	3.6	3.4	3.1
8	3.3	3.3	3.2	11.5	6.3	3.8	3.5	3.4	24	3.2	3.3	3.5	3.9	4.1	3.5	3.7	3.1
9	3.3	3.3	3.3	9.3	5.6	3.8	3.5	3.4	25	3.2	3.4	3.7	3.8	4.1	3.5	3.7	3.1
10	3.3	3.3	3.4	7.5	5.1	3.7	3.5	3.4	26	3.2	3.4	4.1	3.8	4.1	3.6	4.0	3.1
11	3.3	3.3	3.4	6.1	4.8	3.7	3.5	3.3	27	3.2	3.3	4.0	3.8	4.0	3.8	4.0	3.1
12	3.2	3.2	3.4	5.5	4.9	3.7	3.4	3.3	28	3.2	3.3	4.1	3.8	4.0	4.0	3.9	3.1
13	3.2	3.2	3.4	5.1	5.2	3.7	3.4	3.3	29	3.2	3.2	4.1	3.7	3.9	3.7	3.7	3.1
14	3.2	3.2	3.3	4.8	4.8	3.6	3.4	3.3	30	3.2	3.2	4.3		4.0	3.6	3.6	3.1
15	3.2	3.2	3.3	4.6	4.6	3.6	3.4	3.2	31		3.2	4.3		4.1		3.6	
16	3.2	3.2	3.3	4.5	4.5	3.6	3.4	3.2									

Crest Stages:					
	Date	2- 1-60	2- 3-60	2- 8-60	3- 6-60	3- 7-60
	Time	5:30 PM	10:00 PM	11:30 AM	1:00 AM	5:30 PM
	Stage	8.1	7.9	12.8	7.0	7.2

NR — No Record

TABLE 224

DAILY MEAN GAGE HEIGHT
BATTLE CREEK NEAR COTTONWOOD

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	2.6	2.6	2.6	4.8	2.7	3.1	2.9	3.0	17	2.6	2.6	2.6	3.0	3.1	2.9	3.0	2.8
2	2.6	2.6	2.6	3.8	2.7	3.1	2.9	3.1	18	2.6	2.6	2.6	3.0	3.1	2.9	3.0	2.8
3	2.6	2.6	2.6	3.4	2.8	3.0	3.0	3.1	19	2.6	2.6	2.6	2.9	3.1	3.0	2.9	2.7
4	2.6	2.6	2.6	3.1	3.4	3.1	3.2	3.1	20	2.6	2.6	2.6	2.9	3.1	2.9	2.9	2.7
5	2.6	2.6	2.6	3.2	3.6	3.1	3.1	3.1	21	2.6	2.6	2.7	2.8	3.1	2.9	3.1	2.6
6	2.6	2.6	2.6	3.0	3.5	3.1	3.0	3.0	22	2.6	2.6	3.0	2.8	3.1	2.9	3.0	2.6
7	2.6	2.6	2.6	6.6	4.9	3.1	3.0	3.0	23	2.6	2.6	2.8	2.8	3.1	3.1	2.9	2.6
8	2.6	2.6	2.8	6.2	4.2	3.1	3.1	3.0	24	2.6	2.7	2.8	2.8	3.1	3.1	2.9	2.6
9	2.5	2.6	2.8	4.4	3.6	3.0	3.1	2.9	25	2.6	2.8	3.0	2.8	3.1	3.0	3.0	2.6
10	2.6	2.6	2.7	4.0	3.4	3.0	3.1	2.9	26	2.6	2.6	2.9	2.8	3.1	3.0	3.0	2.6
11	2.6	2.6	2.8	3.4	3.2	3.0	3.1	2.9	27	2.6	2.6	2.8	2.8	3.1	3.2	3.0	2.6
12	2.6	2.6	2.7	3.2	3.6	3.0	3.1	2.8	28	2.6	2.6	2.8	2.8	3.2	3.3	3.0	2.6
13	2.6	2.6	2.6	3.4	3.7	2.9	3.1	2.8	29	2.6	2.6	2.8	2.8	3.1	3.0	3.0	2.6
14	2.6	2.6	2.7	3.1	3.3	3.0	3.0	2.8	30	2.6	2.6	3.1		3.4	3.0	3.0	2.6
15	2.6	2.6	2.7	3.1	3.2	3.0	3.0	2.8	31		2.6	2.9		3.2		3.0	
16	2.7	2.5	2.6	3.0	3.1	2.9	3.0	2.8									

Crest Stages:					
	Date	2- 1-60	2- 7-60	2-10-60	3- 7-60	3-12-60
	Time	1:00 PM	9:00 AM	9:30 AM	1:30 PM	9:30 PM
	Stage	6.4	8.5	4.4	7.1	4.2

NR — No Record

TABLE 225

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER NEAR RED BLUFF

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	1.6	1.2	1.0	6.3	1.5	1.7	3.1	2.2	17	1.1	1.0	1.1	2.7	2.1	2.1	2.8	3.3
2	1.6	1.1	1.0	7.7	1.4	1.6	3.2	2.6	18	1.1	1.0	1.1	2.4	2.0	2.1	2.7	3.4
3	1.6	0.9	1.0	4.3	1.4	1.6	3.1	2.9	19	1.1	1.0	1.1	2.4	1.9	2.3	2.7	3.4
4	1.4	0.9	1.0	5.5	3.0	1.5	3.2	2.9	20	1.1	1.0	1.1	2.2	1.8	2.4	2.7	3.4
5	1.2	0.9	1.1	4.7	4.6	1.4	3.1	2.9	21	1.1	1.0	1.3	1.9	1.8	2.4	2.8	3.4
6	1.2	0.9	1.0	3.9	6.4	1.4	3.0	2.9	22	1.1	1.0	2.9	1.9	1.8	2.4	2.9	3.4
7	1.2	0.9	1.0	8.6	6.5	1.3	3.0	2.9	23	1.1	1.1	2.3	1.8	1.8	3.2	2.9	3.5
8	1.2	1.0	1.1	15.1	6.1	1.3	3.0	2.9	24	1.1	1.2	1.8	1.8	1.7	3.4	3.1	3.5
9	1.2	1.0	1.3	10.3	4.0	1.2	2.9	3.0	25	1.2	1.3	2.7	1.8	1.7	3.4	2.8	3.5
10	1.2	1.0	1.2	7.7	3.2	1.2	2.9	3.1	26	1.2	1.2	3.0	1.7	1.7	3.4	2.7	3.5
11	1.2	1.0	1.3	5.7	2.7	1.2	2.8	3.2	27	1.2	1.1	2.5	1.7	1.7	3.7	2.6	3.5
12	1.1	1.0	1.7	4.5	2.9	1.2	2.8	3.2	28	1.2	1.1	3.8	1.7	1.7	3.7	2.5	3.6
13	1.1	1.0	1.2	4.1	3.7	1.3	2.8	3.1	29	1.2	1.1	2.8	1.6	1.6	3.3	2.4	3.7
14	1.1	1.0	1.2	3.6	2.7	1.4	2.8	3.1	30	1.2	1.1	2.9		1.7	3.2	2.3	3.7
15	1.1	1.0	1.3	3.3	2.4	1.9	2.8	3.1	31		1.0	2.4		1.9		2.2	
16	1.1	1.0	1.2	3.0	2.2	2.1	2.8	3.2									

Crest Stages:					
	Date	2-1-60	2-4-60	2-8-60	3-6-60	3-7-60
	Time	11:00 PM	3:15 AM	4:30 PM	6:30 AM	8:30 PM
	Stage	12.4	7.5	17.3	7.9	9.1

NR — No Record

TABLE 226

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT RED BLUFF

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	4.1	3.6	3.4	9.0	4.1	4.4	6.0	5.0	17	3.5	3.4	3.5	5.6	4.8	4.8	5.6	6.3
2	4.1	3.5	3.4	11.2	4.0	4.3	6.1	5.5	18	3.5	3.4	3.5	5.2	4.7	4.8	5.6	6.4
3	4.2	3.3	3.4	7.6	4.0	4.2	6.0	5.8	19	3.5	3.4	3.5	5.2	4.6	5.0	5.6	6.4
4	4.0	3.2	3.4	9.0	5.8	4.1	6.1	5.8	20	3.5	3.4	3.5	4.9	4.5	5.2	5.6	6.4
5	3.7	3.3	3.4	7.9	7.8	4.0	6.0	5.8	21	3.5	3.4	3.8	4.6	4.5	5.2	5.7	6.4
6	3.7	3.2	3.4	7.1	9.9	3.9	5.9	5.8	22	3.5	3.4	5.5	4.6	4.4	5.2	5.8	6.6
7	3.7	3.3	3.4	11.3	9.6	3.8	5.9	5.8	23	3.5	3.4	5.1	4.5	4.4	6.1	5.9	6.6
8	3.7	3.3	3.5	18.5	9.8	3.8	5.9	5.8	24	3.5	3.6	4.4	4.5	4.4	6.3	6.1	6.6
9	3.7	3.3	3.7	14.1	7.2	3.7	5.9	5.9	25	3.5	3.8	5.5	4.4	4.3	6.3	5.7	6.6
10	3.7	3.3	3.6	11.4	6.2	3.7	5.8	6.1	26	3.5	3.6	5.8	4.4	4.3	6.3	5.6	6.6
11	3.6	3.3	3.7	9.2	5.7	3.7	5.8	6.1	27	3.5	3.5	5.3	4.4	4.3	6.7	5.5	6.6
12	3.5	3.4	4.3	7.7	5.9	3.7	5.7	6.1	28	3.5	3.5	6.6	4.3	4.4	6.7	5.3	6.7
13	3.5	3.4	3.7	7.2	6.8	3.9	5.7	6.1	29	3.6	3.4	5.7	4.3	4.3	6.2	5.2	6.7
14	3.5	3.4	3.6	6.7	5.7	3.9	5.7	6.1	30	3.6	3.4	5.6		4.3	6.1	5.1	6.7
15	3.5	3.4	3.7	6.3	5.2	4.5	5.7	6.1	31		3.4	5.1		4.6		5.0	
16	3.6	3.4	3.6	5.9	5.0	4.8	5.7	6.2									

Crest Stages								
	Date	2-1-60	2-4-60	2-5-60	2-8-60	3-5-60	3-6-60	3-7-60	3-13-60
	Time	11:45 PM	3:45 AM	4:00 PM	4:45 PM	8:00 PM	7:30 AM	9:30 PM	7:30 AM
	Stage	15.9	11.1	9.1	20.3	9.3	11.5	12.9	7.5

E - Estimated NR - No Record

TABLE 227

DAILY MEAN GAGE HEIGHT
ANTELOPE CREEK NEAR RED BLUFF

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	3.0	3.0	3.1	6.8	3.2	3.7	NR	3.4	17	3.1	3.1	3.2	3.6	3.8	NR	3.4	3.1
2	3.0	3.0	3.1	5.1	3.2	3.6	NR	3.4	18	3.1	3.1	3.2	3.6	3.7	NR	3.4	3.1
3	3.0	3.0	3.1	4.4	3.2	3.6	NR	3.3	19	3.1	3.1	3.1	3.6	3.7	NR	3.4	3.0
4	3.1	3.0	3.1	4.2	3.5	3.6	NR	3.3	20	3.1	3.1	3.1	3.5	3.6	NR	3.4	3.0
5	3.1	3.0	3.1	4.5	4.0	3.7	NR	3.3	21	3.1	3.1	3.4	3.4	3.6	NR	3.4	3.0
6	3.1	3.0	3.1	4.1	4.3	3.7	3.6	3.2	22	3.1	3.1	4.1	3.4	3.6	NR	3.4	3.0
7	3.1	3.0	3.1	7.4	5.9	3.7	3.6	3.2	23	3.1	3.1	3.7	3.4	3.6	NR	3.4	3.0
8	3.1	3.0	3.1	7.2	5.4	3.7	3.6	3.2	24	3.1	3.2	3.6	3.3	3.6	NR	3.4	3.0
9	3.1	3.0	3.2	5.4	4.6	3.7	3.6	3.2	25	3.1	3.3	4.2	3.3	3.6	NR	3.5	3.0
10	3.1	3.1	3.3	5.1	4.3	3.7	3.6	3.2	26	3.1	3.1	4.3	3.3	3.6	NR	3.5	3.0
11	3.1	3.1	3.5	4.5	4.1	3.7	3.6	3.2	27	3.1	3.1	3.7	3.3	3.7	NR	3.5	3.0
12	3.1	3.1	3.5	4.1	4.2	3.6	3.6	3.1	28	3.1	3.1	3.9	3.3	3.8	NR	3.5	3.0
13	3.1	3.1	3.2	4.3	4.6	3.6	3.6	3.1	29	3.1	3.1	3.6	3.2	3.7	NR	3.5	3.0
14	3.1	3.1	3.2	4.0	4.2	3.6	3.5	3.1	30	3.1	3.1	3.8		3.7	NR	3.4	3.0
15	3.1	3.0	3.2	3.8	4.0	3.6	3.5	3.1	31		3.1	3.6		3.8		3.4	
16	3.1	3.1	3.2	3.7	3.9	NR	3.5	3.1									

Crest Stages:						
Date	1-11-60	1-22-60	1-26-60	2- 1-60	2- 7-60	3- 7-60
Time	7:30 PM	3:00 AM	3:00 AM	3:00 PM	1:30 PM	1:45 PM
Stage	4.2	4.3	4.6	9.7	9.9	6.9

NR — No Record

TABLE 228

DAILY MEAN GAGE HEIGHT
MILL CREEK NEAR LOS MOLINOS

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	1.4	1.4	1.4	4.3	NR	2.4	2.0	2.7	17	1.4	1.4	1.5	NR	NR	2.0	2.4	2.2
2	1.4	1.4	1.4	3.1	NR	2.3	2.3	2.9	18	1.4	1.4	1.5	1.8	NR	2.0	2.4	2.1
3	1.4	1.4	1.4	2.4	NR	2.4	2.2	2.9	19	1.4	1.4	1.5	1.8	NR	2.2	2.3	2.0
4	1.4	1.4	1.4	NR	NR	2.4	2.3	2.8	20	1.4	1.4	1.4	1.7	NR	2.1	2.3	1.9
5	1.4	1.4	1.4	NR	NR	2.4	2.2	2.7	21	1.4	1.4	1.7	1.7	2.3	2.2	2.4	1.9
6	1.4	1.4	1.4	NR	NR	2.5	2.2	2.7	22	1.4	1.4	2.0	1.7	2.4	2.2	2.2	1.8
7	1.4	1.4	1.4	NR	NR	2.5	2.4	2.6	23	1.4	1.4	1.8	1.6	2.4	2.1	2.1	1.8
8	1.4	1.4	1.7	NR	NR	2.5	2.5	2.5	24	1.4	1.6	1.7	1.6	2.5	2.0	2.2	1.8
9	1.4	1.4	1.6	NR	NR	2.4	2.5	2.4	25	1.4	1.7	2.5	NR	2.5	2.0	2.3	1.8
10	1.4	1.4	1.6	NR	NR	2.4	2.5	2.3	26	1.4	1.5	2.6	NR	2.6	2.0	2.3	1.8
11	1.4	1.4	1.7	NR	NR	2.4	2.6	2.3	27	1.4	1.4	2.0	NR	2.5	2.6	2.4	1.7
12	1.4	1.4	1.7	NR	NR	2.2	2.6	2.3	28	1.4	1.4	2.2	NR	2.5	2.2	2.5	1.7
13	1.4	1.4	1.5	NR	NR	2.1	2.5	2.3	29	1.4	1.4	1.9	NR	2.3	2.1	2.5	1.7
14	1.4	1.4	1.5	2.2	NR	2.2	2.4	2.3	30	1.4	1.4	2.0		2.6	2.0	2.4	1.7
15	1.4	1.4	1.5	NR	NR	2.1	2.4	2.2	31		1.4	1.8		2.7		2.5	
16	1.4	1.4	1.5	NR	NR	2.1	2.4	2.2									

Crest Stages:			
Date	2- 1-60	2- 8-60	3- 7-60
Time	1:00 PM	11:00 AM	8:30 AM
Stage	6.1	9.1	6.3

NR — No Record

TABLE 229

DAILY MEAN GAGE HEIGHT
MILL CREEK NEAR MOUTH

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	3.4E	4.4	4.5	7.0	4.7	5.4	4.8	5.4	17	4.4	4.5	4.6	5.1	5.3	4.8	5.1	4.8
2	3.6E	4.4	4.4	6.4	4.7	5.2	5.1	5.6	18	4.4	4.5	4.6	5.1	5.3	4.8	5.1	4.7
3	3.9E	4.4	4.5	5.8	4.7	5.2	5.0	5.6	19	4.4	4.5	4.6	5.0	5.3	4.9	5.0	4.6
4	4.0	4.4	4.5	5.6	4.9	5.2	5.1	5.6	20	4.4	4.5	4.6	4.9	5.4	4.8	5.0	4.4
5	4.2	4.4	4.5	5.8	5.8	5.3	5.0	5.5	21	4.4	4.5	4.9	4.9	5.4	4.9	5.1	4.3
6	4.4	4.4	4.5	5.6	6.5	5.2	4.9	5.4	22	4.4	4.5	5.4	4.8	5.5	4.9	4.9	4.3
7	4.4	4.4	4.5	7.9	8.0	5.3	5.2	5.3	23	4.4	4.5	5.1	4.8	5.5	4.8	4.8	4.2
8	4.4	4.4	4.8	10.4	7.2	5.3	5.4	5.2	24	4.4	4.8	5.0	4.8	5.6	4.8	4.9	4.2
9	4.4	4.4	4.9	7.5	6.4	5.2	5.3	5.1	25	4.4	5.0	5.8	4.8	5.7	4.7	4.9	4.2
10	4.4	4.4	4.8	6.7	6.0	5.2	5.2	5.0	26	4.4	4.6	6.0	4.8	5.7	4.7	5.0	4.2
11	4.4	4.4	5.0	6.1	5.7	5.2	5.4	5.0	27	4.4	4.5	5.4	4.8	5.6	5.3	5.2	4.1E
12	4.4	4.4	4.9	5.7	5.7	5.1	5.4	5.0	28	4.4	4.5	5.6	4.7	5.7	5.0	5.3	4.0E
13	4.4	4.5	4.7	5.7	6.2	5.0	5.2	5.0	29	4.4	4.5	5.3	4.7	5.3	4.9	5.2	4.0E
14	4.4	4.5	4.7	5.4	5.7	5.0	5.1	5.0	30	4.4	4.5	5.4		5.6	4.8	5.2	4.0E
15	4.4	4.5	4.7	5.3	5.5	5.0	5.2	4.9	31		4.5	5.2		5.6		5.3	
16	4.4	4.5	4.6	5.2	5.4	4.9	5.1	4.8									

Crest Stages:								
	Date	1-25-60	2- 1-60	2- 7-60	2- 7-60	2- 8-60	3- 7-60	3- 7-60	3- 7-60
	Time	11:55 PM	2:00 PM	3:30 PM	9:00 PM	12:30 PM	8:15 AM	12:30 PM	8:45 PM
	Stage	6.9	9.0	11.0	10.2	11.8	8.9	8.7	8.6

NR – No Record E - Estimated

TABLE 230

DAILY MEAN GAGE HEIGHT
THOMES CREEK AT PASKENTA

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.6	2.6	2.8	5.3	4.2	5.1	4.4	4.6	17	2.6	2.7	2.8	4.6	5.2	4.4	4.3	4.0
2	2.6	2.6	2.7	4.9	4.1	5.1	4.5	4.7	18	2.6	2.7	2.8	4.6	5.3	4.4	4.3	4.0
3	2.6	2.6	2.8	4.3	4.2	5.1	4.4	4.6	19	2.6	2.7	2.9	4.5	5.3	4.4	4.2	3.9
4	2.6	2.6	2.7	4.0	5.0	5.1	4.4	4.5	20	NR	2.7	2.9	4.4	5.4	4.3	4.2	3.9
5	2.6	2.6	2.7	4.6	6.1	5.1	4.4	4.4	21	NR	2.7	3.0	4.4	5.4	4.4	4.2	3.8
6	2.6	2.6	2.7	4.4	6.3	5.0	4.4	4.4	22	NR	2.7	3.1	4.4	5.4	4.3	4.2	3.8
7	2.6	2.6	2.8	8.5	7.2	4.9	4.5	4.3	23	NR	2.8	3.0	4.4	5.4	4.3	4.2	3.8
8	2.6	2.6	3.0	10.2	6.4	4.9	4.5	4.2	24	NR	2.9	3.2	4.3	5.4	4.3	4.2	3.8
9	2.6	2.6	3.2	7.4	5.8	4.8	4.5	4.2	25	NR	3.4	3.5	4.3	5.3	4.2	4.4	3.8
10	2.6	2.6	3.0	6.0	5.4	4.8	4.5	4.2	26	NR	3.1	3.8	4.3	5.2	4.3	5.1	3.7
11	2.6	2.6	3.0	5.4	5.2	4.7	4.6	4.2	27	2.6	2.9	3.6	4.3	5.2	4.5	5.0	3.7
12	2.6	2.7	3.0	5.1	5.6	4.6	4.6	4.1	28	2.6	2.8	3.9	4.2	5.0	4.4	4.9	3.7
13	2.6	2.7	2.9	4.9	5.7	4.5	4.5	4.1	29	2.6	2.8	3.9	4.2	4.8	4.3	4.8	3.7
14	2.6	2.7	2.9	4.8	5.4	4.5	4.4	4.1	30	2.6	2.8	4.7		5.3	4.4	4.7	3.7
15	2.6	2.7	2.9	4.7	5.2	4.5	4.4	4.0	31		2.8	4.0		5.2		4.6	
16	2.6	2.7	2.8	4.6	5.1	4.4	4.4	4.0									

Crest Stages:							
	Date	1-30-60	2- 1-60	2- 8-60	3- 5-60	3- 7-60	3-30-60
	Time	8:00 AM	7:00 PM	6:00 AM	7:00 PM	10:00 AM	12:00 Noon
	Stage	5.2	6.7	12.3	6.9	8.2	5.8

NR – No Record

TABLE 231

DAILY MEAN GAGE HEIGHT
DEER CREEK NEAR VINA

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr	May	June
1	2.4	2.5	2.5	5.1	2.7	3.8	3.2	2.9	17	2.5	2.5	2.5	3.1	3.5	3.2	2.9	2.6
2	2.5	2.5	2.4	4.1	2.7	3.7	3.3	2.8	18	2.5	2.5	2.5	3.1	3.5	3.1	2.9	2.6
3	2.5	2.5	2.5	3.6	2.7	3.7	3.2	2.8	19	2.5	2.5	2.5	3.0	3.5	3.2	2.8	2.6
4	2.5	2.5	2.5	3.3	2.8	3.7	3.2	2.8	20	2.5	2.5	2.5	3.0	3.5	3.2	2.8	2.6
5	2.5	2.5	2.5	3.6	3.7	3.7	3.2	2.8	21	2.5	2.5	2.7	2.9	3.6	3.1	3.0	2.6
6	2.5	2.5	2.5	3.3	4.3	3.6	3.1	2.8	22	2.5	2.5	3.2	2.9	3.6	3.1	2.9	2.6
7	2.5	2.5	2.5	5.4	6.1	3.6	3.1	2.8	23	2.5	2.5	2.9	2.8	3.6	3.1	2.9	2.6
8	2.5	2.5	2.7	8.1	5.5	3.6	3.1	2.8	24	2.5	2.6	2.9	2.8	3.6	3.1	3.1	2.6
9	2.5	2.5	2.8	5.8	4.6	3.5	3.1	2.7	25	2.5	2.8	3.8	2.8	3.6	3.1	3.2	2.6
10	2.5	2.5	2.8	4.6	4.1	3.4	3.0	2.7	26	2.5	2.6	3.9	2.8	3.6	3.1	3.2	2.6
11	2.5	2.5	2.9	4.0	3.9	3.4	3.0	2.7	27	2.5	2.6	3.2	2.8	3.6	3.7	3.2	2.5
12	2.5	2.5	2.8	3.7	3.9	3.4	3.0	2.7	28	2.5	2.5	3.3	2.8	3.8	3.4	3.1	2.5
13	2.5	2.5	2.6	3.6	4.1	3.3	3.0	2.6	29	2.5	2.5	3.0	2.7	3.6	3.2	3.0	2.5
14	2.5	2.5	2.6	3.4	3.8	3.3	3.0	2.6	30	2.5	2.5	3.1		3.9	3.2	3.0	2.5
15	2.5	2.5	2.6	3.3	3.6	3.3	2.9	2.6	31		2.5	3.0		4.1		2.9	
16	2.5	2.5	2.6	3.2	3.5	3.2	2.9	2.6									

Crest Stages:						
Date	1-25-60	2- 1-60	2- 8-60	3- 6-60	3- 7-60	3-30-60
Time	8:30 PM	2:30 PM	12:15 PM	0:30 AM	1:45 PM	8:00 PM
Stage	4.8	7.0	9.3	4.6	6.8	4.6

NR — No Record

TABLE 232

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT VINA BRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr	May	June
1	66.5	66.1	66.0	71.0	66.7	67.2	68.2	67.2	17	66.2	66.0	66.1	68.2	67.6	67.2	67.8	68.2
2	66.5	66.1	66.0	75.2	66.6	67.1	68.2	67.5	18	66.1	66.0	66.1	67.8	67.5	67.2	67.7	68.3
3	66.5	66.0	66.0	70.7	66.5	67.0	68.2	67.8	19	66.1	66.0	66.1	67.7	67.4	67.2	67.7	68.3
4	66.5	65.9	66.0	71.8	67.3	66.9	68.2	67.9	20	66.1	66.0	66.1	67.5	67.4	67.4	67.7	68.2
5	66.2	65.9	66.1	70.5	69.5	66.8	68.2	67.9	21	66.1	66.0	66.4	67.2	67.3	67.4	67.7	68.2
6	66.2	65.9	66.0	70.2	72.6	66.8	68.0	67.9	22	66.1	66.0	67.7	67.1	67.3	67.4	67.9	68.3
7	66.2	65.9	66.0	72.8	72.2	66.7	68.0	67.8	23	66.1	66.0	67.9	67.0	67.3	67.9	67.9	68.4
8	66.2	66.0	66.1	82.9	73.8	66.6	68.1	67.8	24	66.1	66.2	67.0	67.0	67.3	68.3	68.1	68.4
9	66.2	65.9	66.3	79.3	70.7	66.6	68.0	67.9	25	66.1	66.3	68.0	66.9	67.2	68.3	68.0	68.4
10	66.2	66.0	66.2	75.1	69.3	66.5	68.0	68.0	26	66.1	66.2	68.5	66.9	67.2	68.3	67.8	68.4
11	66.2	66.0	66.3	72.5	68.6	66.5	67.9	68.1	27	66.1	66.1	67.8	66.9	67.2	68.8	67.8	68.4
12	66.1	66.0	66.8	70.8	68.4	66.4	67.9	68.1	28	66.1	66.1	68.4	66.8	67.2	69.2	67.6	68.5
13	66.1	66.0	66.3	70.0	70.2	66.5	67.9	68.0	29	66.1	66.1	68.3	66.8	67.1	68.5	67.5	68.5
14	66.1	66.0	66.2	69.4	68.8	66.5	67.8	68.0	30	66.1	66.0	68.0		67.0	68.2	67.4	68.5
15	66.1	66.0	66.3	68.9	68.2	66.8	67.8	68.0	31		66.0	67.9		67.5		67.3	
16	66.1	66.0	66.2	68.6	67.8	67.1	67.8	68.1									

Crest Stages:								
Date	2- 2-60	2- 4-60	2- 5-60	2- 8-60	2-10-60	3- 6-60	3- 8-60	3-13-60
Time	5:00 AM	9:15 AM	9:30 PM	7:00 PM	7:30 PM	1:00 PM	3:00 AM	12:45 PM
Stage	77.8	73.1	71.7	83.8	74.7	73.6	75.7	70.5

E - Estimated NR - No Record

TABLE 233

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT HAMILTON CITY

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	27.5	27.2	27.4	30.8	28.2	28.5	28.8	27.7	17	27.3	27.2	27.5	29.6	29.0	27.6	28.3	28.6
2	27.6	27.2	27.4	36.2	28.0	28.3	28.8	27.9	18	27.2	27.3	27.5	29.2	28.9	27.6	28.2	28.7
3	27.6	27.2	27.4	31.8	28.0	28.2	28.8	28.2	19	27.2	27.4	27.5	29.1	28.8	27.6	28.2	28.7
4	27.6	27.1	27.4	31.6	28.3	28.1	28.8	28.4	20	27.2	27.4	27.5	29.0	28.8	27.8	28.2	28.7
5	27.3	27.1	27.4	31.3	30.2	27.9	28.8	28.3	21	27.2	27.3	27.6	28.7	28.7	27.8	28.2	28.7
6	27.3	27.1	27.4	31.4	32.8	27.8	28.6	28.3	22	27.2	27.3	28.6	28.6	28.7	27.8	28.3	28.7
7	27.3	27.1	27.4	32.0	32.5	27.6	28.5	28.3	23	27.2	27.4	29.3	28.5	28.7	28.2	28.4	28.8
8	27.3	27.1	27.4	41.8	34.5	27.5	28.6	28.3	24	27.2	27.5	28.3	28.4	28.6	28.7	28.6	28.8
9	27.3	27.1	27.6	40.6	31.9	27.4	28.5	28.3	25	27.2	27.6	29.1	28.4	28.6	28.7	28.6	28.8
10	27.3	27.1	27.6	35.8	30.6	27.3	28.4	28.4	26	27.2	27.6	29.7	28.4	28.5	28.7	28.4	28.8
11	27.3	27.1	27.6	33.6	29.9	27.2	28.4	28.5	27	27.2	27.5	29.2	28.3	28.5	29.2	28.4	28.8
12	27.2	27.2	28.0	31.9	29.6	27.1	28.4	28.5	28	27.2	27.5	29.3	28.3	28.4	29.7	28.3	28.9
13	27.2	27.2	27.8	31.1	30.9	27.1	28.4	28.5	29	27.2	27.4	29.8	28.2	28.4	29.2	28.2	28.9
14	27.2	27.2	27.6	30.7	30.2	27.1	28.4	28.5	30	27.2	27.4	29.1		28.3	28.9	28.0	28.9
15	27.2	27.2	27.7	30.2	29.5	27.2	28.3	28.4	31		27.4	29.3		28.7		27.8	
16	27.2	27.1	27.6	29.9	29.2	27.4	28.3	28.5									

Crest Stages:					
Date	1-29-60	2- 2-60	2- 9-60	3- 8-60	4-28-60
Time	1:00 AM	9:00 AM	1:30 AM	6:30 AM	11:00 AM
Stage	30.4	37.6	43.3	35.6	29.9

E-Estimated NR-No Record

TABLE 234

DAILY MEAN GAGE HEIGHT
BIG CHICO CREEK NEAR CHICO

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	2.1	2.1	2.2	4.1	2.4	3.2	2.8	2.4	17	2.1	2.1	2.3	2.8	3.0	2.5	2.4	2.2
2	2.1	2.1	2.2	4.0	2.4	3.0	2.8	2.4	18	2.2	2.1	2.3	2.8	3.0	2.5	2.4	2.2
3	2.1	2.1	2.1	3.4	2.4	3.0	2.7	2.3	19	2.1	2.1	2.3	2.7	2.9	2.4	2.4	2.2
4	2.1	2.1	2.2	3.2	2.6	2.9	2.7	2.3	20	2.1	2.1	2.2	2.6	2.8	2.4	2.4	2.2
5	2.1	2.1	2.2	3.5	4.3	2.8	2.6	2.3	21	2.1	2.2	2.5	2.6	2.8	2.4	2.4	2.2
6	2.1	2.2	2.2	3.5	4.8	2.8	2.6	2.3	22	2.1	2.2	3.2	2.6	2.8	2.4	2.4	NR
7	2.1	2.2	2.4	5.5	7.1	2.7	2.6	2.3	23	2.1	2.2	3.0	2.6	2.7	2.5	2.4	NR
8	2.1	2.2	2.5	7.8	5.4	2.7	2.6	2.3	24	2.1	2.4	2.8	2.5	2.7	2.5	2.6	NR
9	2.1	2.2	2.5	5.1	4.4	2.6	2.5	2.3	25	2.1	2.4	3.8	2.5	2.6	2.4	2.7	NR
10	2.1	2.2	2.6	4.3	3.9	2.6	2.5	2.3	26	2.1	2.2	3.9	2.5	2.6	2.4	2.6	NR
11	2.1	2.2	2.8	3.8	3.6	2.6	2.5	2.3	27	2.2	2.2	3.3	2.4	2.6	3.1	2.6	NR
12	2.1	2.2	2.6	3.5	3.6	2.6	2.4	2.2	28	2.1	2.2	3.4	2.4	2.8	3.1	2.5	NR
13	2.1	2.2	2.4	3.3	3.6	2.6	2.4	2.2	29	2.1	2.2	3.1	2.4	2.6	3.0	2.5	NR
14	2.1	2.2	2.5	3.2	3.4	2.5	2.4	2.2	30	2.1	2.2	2.9		3.1	2.8	2.4	NR
15	2.1	2.2	2.4	3.0	3.2	2.5	2.4	2.2	31		2.2	2.7		3.4		2.4	NR
16	2.1	2.1	2.3	2.9	3.1	2.5	2.4	2.2									

Crest Stages.				
Date	1-25-60	2- 1-60	2- 8-60	3- 7-60
Time	11:30 PM	6:00 PM	9:00 AM	9:30 AM
Stage	4.5	5.8	9.2	8.6

NR-No Record

TABLE 235

DAILY MEAN GAGE HEIGHT
STONY CREEK NEAR HAMILTON CITY

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	NF	NF	NF	NF	5.0	6.1	5.5	3.8	17	NF	NF	NF	5.9	6.6	4.4	3.7	NF
2	NF	NF	NF	7.1	4.9	6.0	5.5	NF	18	NF	NF	NF	5.8	6.5	4.3	NF	NF
3	NF	NF	NF	5.6	4.9	5.8	5.5	NF	19	NF	NF	NF	5.8	6.4	4.1	NF	NF
4	NF	NF	NF	5.8	5.2	5.8	5.4	NF	20	NF	NF	NF	5.6	6.2	4.0	NF	NF
5	NF	NF	NF	5.9	6.7	5.8	5.1	NF	21	NF	NF	NF	5.5	6.1	3.9	NF	NF
6	NF	NF	NF	5.9	7.4	5.7	4.6	NF	22	NF	NF	NF	5.5	6.1	3.7	NF	NF
7	NF	NF	NF	6.7	7.5	5.6	4.3	NF	23	NF	NF	NF	5.4	5.9	3.9	NF	NF
8	NF	NF	NF	11.4	8.9	5.4	4.2	NF	24	NF	NF	NF	5.4	5.8	4.2	3.7	NF
9	NF	NF	NF	11.2	8.3	5.2	4.0	NF	25	NF	NF	NF	5.3	5.6	4.1	NF	NF
10	NF	NF	NF	10.1	7.5	5.1	4.0	NF	26	NF	NF	NF	5.2	5.6	4.2	4.2	NF
11	NF	NF	NF	9.0	7.0	5.0	3.8	NF	27	NF	NF	NF	5.2	5.6	5.3	4.6	NF
12	NF	NF	NF	7.4	7.0	5.0	4.0	NF	28	NF	NF	NF	5.1	5.8	5.7	4.5	NF
13	NF	NF	NF	7.0	7.9	4.9	4.1	NF	29	NF	NF	NF	5.1	5.7	5.6	4.4	NF
14	NF	NF	NF	6.4	7.5	4.7	4.0	NF	30	NF	NF	NF		5.7	5.5	4.4	NF
15	NF	NF	NF	6.2	7.2	4.6	3.8	NF	31		NF	NF		6.1		4.0	
16	NF	NF	NF	6.1	6.9	4.5	3.7	NF									

Crest Stages:					
	Date	2- 2-60	2- 8-60	3- 8-60	3-13-60
	Time	6:30 AM	7:30 PM	3:00 AM	7:00 AM
	Stage	7.9	12.6	9.2	8.2

NR – No Record
NF - No Flow

TABLE 236

DAILY GAGE HEIGHT*
STONY CREEK AT ST. JOHN

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1				NF	2.1				17			NF	2.5	2.1			
2				2.8	2.1				18			NF	2.5	2.1			
3				1.7	2.1				19			NF	2.5	2.1			
4				1.8	2.1				20			NF	2.5	2.1			
5				1.7	2.1				21			NF	2.4	2.1			
6	N O	N O	N O	1.7	2.6	N O	N O	N O	22	N O	N O	0.6	2.4	NF	N O	N O	N O
7				1.7	3.0				23			1.0	2.3	NF			
8				4.3	3.5				24			NF	2.3	NF			
9	F L O W	F L O W	F L O W	5.3	2.9	F L O W	F L O W	F L O W	25	F L O W	F I O W	NF	2.3	NF	F L O W	F L O W	F L O W
10				5.0	2.7				26			NF	1.9	NF			
11				3.8	2.5				27			NF	1.6	NF			
12				2.8	2.5				28			NF	1.3	NF			
13				2.8	2.5				29			NF	1.3	NF			
14				2.8	2.4				30			NF		NF			
15				2.8	2.1				31			NF		NF			
16				2.6	2.1												

Crest Stages:		
	Date	2- 8-60
	Time	10:30 PM
	Stage	6.8

NR – No Record
NF - No Flow
* Individual daily staff gage readings.

TABLE 237

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT ORD PERRY

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	96.0	95.6	95.8	99.0	97.0	97.4	97.6	96.2	17	95.7	95.6	96.0	99.2	98.4	96.0	96.9	97.3
2	96.0	95.6	95.8	106.6	96.9	97.1	97.6	96.4	18	95.6	95.6	95.9	98.8	98.2	96.0	96.8	97.3
3	96.0	95.5	95.8	102.3	96.8	97.0	97.7	96.8	19	95.6	95.7	95.9	98.5	98.1	96.0	96.8	97.4
4	96.0	95.4	95.8	102.7	96.9	96.8	97.6	97.0	20	95.6	95.8	95.9	98.3	98.0	96.2	96.8	97.4
5	95.8	95.4	95.8	101.5	99.2	96.6	97.6	97.0	21	95.7	95.7	96.0	97.9	97.8	96.3	96.8	97.3
6	95.7	95.4	95.8	101.8	102.3	96.4	97.3	97.0	22	95.6	95.7	97.4	97.7	97.7	96.3	97.0	97.3
7	95.7	95.4	95.8	101.1	102.8	96.2	97.2	96.9	23	95.6	95.8	98.4	97.6	97.6	96.6	97.1	97.4
8	95.7	95.4	95.8	111.4	105.2	96.1	97.3	96.9	24	95.6	95.9	97.2	97.4	97.5	97.3	97.3	97.5
9	95.7	95.4	96.0	113.1	102.8	96.0	97.2	96.9	25	95.6	96.0	98.0	97.4	97.4	97.4	97.4	97.5
10	95.7	95.5	96.0	107.6	100.9	95.8	97.1	97.0	26	95.6	96.1	99.1	97.3	97.4	97.5	97.1	97.5
11	95.7	95.4	96.0	104.8	99.9	95.7	97.1	97.2	27	95.6	95.9	98.4	97.2	97.3	97.8	97.2	97.5
12	95.6	95.5	96.4E	102.6	99.4	95.6	97.1	97.2	28	95.6	95.9	98.1	97.1	97.3	98.7	97.0	97.5
13	95.6	95.5	96.4	101.4	100.8	95.6	97.0	97.2	29	95.6	95.8	99.0	97.1	97.2	98.2	96.9	97.6
14	95.6	95.5	96.1	100.8	100.4	95.6	97.0	97.1	30	95.6	95.8	98.0		97.0	97.8	96.6	97.6
15	95.6	95.5	96.2	100.1	99.4	95.6	97.0	97.1	31		95.8	98.4		97.5		96.4	
16	95.6	95.5	96.1	99.6	98.8	95.9	96.9	97.2									

Crest Stages:						
	Date	1-26-60	2- 2-60	2- 9-60	3- 8-60	4-28-60
	Time	12:00 Noon	1:00 PM	7:00 AM	10:30 AM	3:00 PM
	Stage	99.5	107.7	114.2	106.0	98.9

E – Estimated NR – No Record

TABLE 238

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT BUTTE CITY

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	70.4	70.0	70.2	72.6	71.5	72.0	72.0	70.6	17	70.0	69.9	70.4	74.0	73.1	70.2	71.2	71.5
2	70.4	70.0	70.2	81.0	71.4	71.7	72.0	70.6	18	70.0	70.0	70.3	73.5	72.8	70.3	71.2	71.5
3	70.4	69.9	70.2	78.4	71.2	71.5	72.0	70.9	19	70.0	70.0	70.3	73.1	72.7	70.2	71.2	71.6
4	70.4	69.8	70.2	77.0	71.3	71.3	71.9	71.2	20	70.0	70.1	70.3	72.9	72.5	70.4	71.1	71.6
5	70.3	69.7	70.2	76.4	73.1	71.1	72.0	71.2	21	70.0	70.1	70.3	72.6	72.4	70.6	71.1	71.6
6	70.1	69.7	70.2	76.4	76.0	70.9	71.8	71.2	22	70.0	70.1	71.3	72.3	72.2	70.5	71.2	71.6
7	70.1	69.7	70.2	75.1	77.6	70.6	71.6	71.2	23	70.0	70.1	72.6	72.1	72.1	70.6	71.4	71.7
8	70.1	69.8	70.2	84.6	80.1	70.5	71.6	71.2	24	70.0	70.2	72.0	72.0	72.0	71.5	71.5	71.7
9	70.0	69.8	70.3	90.4	78.5	70.4	71.6	71.2	25	70.0	70.4	72.0	71.9	71.9	71.7	71.7	71.7
10	70.0	69.8	70.5	87.3	76.0	70.2	71.5	71.2	26	70.0	70.5	73.3	71.8	71.9	71.8	71.5	71.7
11	70.0	69.8	70.5	81.8	74.8	70.0	71.5	71.4	27	70.0	70.3	72.9	71.7	71.8	72.0	71.5	71.7
12	70.0	69.8	70.7	78.3	74.1	69.8	71.4	71.4	28	70.0	70.3	72.4	71.6	71.7	72.9	71.4	71.7
13	69.9	69.9	71.0	76.4	75.1	69.8	71.4	71.4	29	70.0	70.2	73.4	71.6	71.7	72.7	71.2	71.9
14	69.9	69.9	70.6	75.8	75.4	69.7	71.4	71.4	30	70.0	70.2	72.6		71.5	72.2	71.0	71.9
15	69.9	69.8	70.6	75.0	74.1	69.7	71.3	71.4	31		70.2	72.7		71.8		70.8	
16	69.9	69.8	70.6	74.5	73.5	70.0	71.3	71.4									

Crest Stages:							
	Date	1-26-60	2- 2-60	2- 4-60	2- 6-60	2- 9-60	3- 8-60
	Time	4:00 PM	6:30 PM	10:00 PM	11:00 AM	4:30 PM	5:00 PM
	Stage	73.7	83.1	77.9	76.8	90.9	81.3

NR – No Record

TABLE 239

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT MOULTON WEIR

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1									17								
2									18								
3									19								
4									20								
5									21								
6									22								
7									23								
8				77.0a					24								
9				78.7					25								
10				78.3a					26								
11									27								
12									28								
13									29								
14									30								
15									31								
16																	

Crest Stages:		
	Date	2- 9-60
	Time	10:00 PM
	Stage	79.4

E-Estimated NR-No Record
a Mean gage height for period of flow.

TABLE 240

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER OPPOSITE MOULTON WEIR

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	56.9	56.5	56.7	59.2	58.4	58.8	58.7	57.2	17	56.5	56.4	57.0	61.2	60.3	56.8	57.8	58.0
2	57.0	56.5	56.7	68.5	58.2	58.5	58.6	57.1	18	56.6	56.5	56.9	60.6	59.9	56.9	57.8	58.0
3	57.0	56.5	56.7	69.2	58.1	58.3	58.7	57.4	19	56.5	56.6	56.9	60.2	59.8	56.9	57.7	58.2
4	57.0	56.3	56.7	65.3	58.1	58.2	58.6	57.7	20	56.5	56.7	56.9	60.0	59.6	57.0	57.7	58.2
5	56.9	56.3	56.7	65.2	59.6	57.9	58.6	57.7	21	56.6	56.7	56.9	59.6	59.4	57.1	57.7	58.2
6	56.7	56.3	56.8	64.5	63.0	57.8	58.4	57.7	22	56.5	56.6	57.8	59.3	59.2	57.1	57.8	58.1
7	56.6	56.3	56.8	62.8	66.2	57.5	58.2	57.7	23	56.6	56.7	59.2	59.1	59.0	57.1	58.0	58.2
8	56.6	56.3	56.8	71.6	69.0	57.3	58.2	57.6	24	56.5	56.8	58.7	58.9	58.9	57.9	58.1	58.3
9	56.6	56.3	56.9	78.7	69.2	57.2	58.3	57.6	25	56.6	56.9	58.6	58.8	58.8	58.3	58.4	58.3
10	56.6	56.3	57.1	77.8	65.0	57.0	58.2	57.7	26	56.5	57.1	60.0	58.7	58.8	58.4	58.2	58.3
11	56.6	56.3	57.0	73.2	62.6	56.7	58.1	57.9	27	56.5	56.9	59.9	58.6	58.7	58.6	58.0	58.3
12	56.6	56.4	57.2	68.6	61.5	56.5	58.0	57.9	28	56.5	56.8	59.2	58.6	58.6	59.5	58.0	58.3
13	56.5	56.5	59.6	65.3	62.1	56.4	58.0	57.9	29	56.5	56.8	60.2	58.4	58.6	59.6	57.8	58.4
14	56.4	56.4	57.2	63.8	63.3	56.4	58.0	57.8	30	56.5	56.7	59.5		58.4	59.0	57.6	58.4
15	56.4	56.4	57.1	62.6	61.6	56.3	57.9	57.8	31		56.7	59.5		58.6		57.4	
16	56.5	56.4	57.2	61.8	60.8	56.6	57.9	57.9									

Crest Stages:								
	Date	1-29-60	2- 2-60	2- 5-60	2- 6-60	2- 9-60	3- 7-60	3- 8-60	3-14-60
	Time	2:00 PM	11:30 PM	1:30 AM	3:00 PM	10:00 PM	7:00 AM	10:00 PM	5:00 AM
	Stage	60.6	72.3	66.6	64.9	79.5	66.7	71.0	63.8

E-Estimated NR-No Record

TABLE 241

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT COLUSA WEIR

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June
1									17								
2				62.7a					18								
3				62.8a					19								
4									20								
5									21								
6									22								
7									23								
8				64.0a	62.5a				24								
9				65.9	62.5a				25								
10				65.9					26								
11				64.1					27								
12				62.4a					28								
13									29								
14									30								
15									31								
16																	

Crest Stages:				
	Date	2- 3-60	2-10-60	3- 9-60
	Time	4:00 AM	1:00 AM	1:00 AM
	Stage	63.2	66.4	62.9

E - Estimated NR - No Record

a Mean gage height for period of flow.

TABLE 242

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT COLUSA

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	40.8	40.0	40.3	45.1	43.5	44.3	44.1	41.4	17	40.0	39.8	40.9	48.9	47.1	40.8	42.5	42.6
2	40.8	40.0	40.3	53.6	43.3	44.0	43.8	41.1	18	40.0	40.0	40.8	47.9	46.4	41.0	42.4	42.6
3	40.8	40.0	40.3	60.0	43.0	43.6	43.8	41.6	19	40.0	40.0	40.7	46.9	46.0	41.0	42.3	42.8
4	40.9	39.8	40.3	55.8	42.9	43.3	43.8	42.1	20	40.0	40.2	40.7	46.4	45.7	41.1	42.2	43.0
5	40.8	39.7	40.3	55.5	44.5	42.9	43.8	42.2	21	40.0	40.2	40.7	45.9	45.4	41.2	42.2	42.9
6	40.4	39.6	40.4	53.8	49.1	42.5	43.6	42.1	22	40.0	40.1	41.7	45.2	45.0	41.3	42.2	42.8
7	40.3	39.6	40.4	52.3	55.0	42.1	43.2	42.2	23	40.0	40.2	44.2	44.8	44.7	41.2	42.6	43.0
8	40.2	39.6	40.4	57.2	58.0	41.8	43.0	42.1	24	40.0	40.4	44.5	44.5	44.5	42.2	42.8	43.1
9	40.2	39.7	40.6	63.9	60.1	41.5	43.1	42.0	25	40.0	40.6	43.4	44.3	44.4	43.1	43.3	43.2
10	40.2	39.6	41.0	64.3	56.0	41.2	43.0	42.0	26	40.0	40.9	45.6	44.1	44.2	43.3	43.2	43.2
11	40.2	39.7	40.9	62.3	52.0	40.8	42.8	42.3	27	40.0	40.8	46.4	43.9	44.1	43.6	42.9	43.2
12	40.1	39.7	41.1	60.0	49.7	40.5	42.7	42.5	28	40.0	40.6	45.2	43.8	44.0	44.7	42.8	43.2
13	40.0	39.8	41.9	56.4	49.4	40.3	42.7	42.5	29	40.0	40.5	46.1	43.6	43.9	45.6	42.6	43.3
14	39.9	39.8	41.3	53.8	51.6	40.2	42.7	42.4	30	40.0	40.4	46.0		43.6	44.6	42.2	43.4
15	39.9	39.8	41.1	51.8	49.8	40.1	42.7	42.4	31		40.4	45.3		43.7		41.7	
16	39.9	39.8	41.2	50.2	48.1	40.3	42.6	42.4									

Crest Stages:							
	Date	1-27-60	1-29-60	2- 3-60	2-10-60	3- 9-60	3-14-60
	Time	2:30 AM	9:00 PM	5:00 AM	2:00 AM	3:00 AM	10:00 AM
	Stage	46.9	47.0	61.0	64.8	60.8	52.0

E - Estimated NR - No Record

TABLE 243

DAILY MEAN GAGE HEIGHT
BUTTE CREEK NEAR CHICO

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	1.4	1.5	1.5	2.8	2.0	2.6	2.3	NR	17	1.6	1.5	1.6	2.2	2.5	2.2	NR	NR
2	1.4	1.5	1.5	2.8	1.9	2.5	2.3	NR	18	1.6	1.5	1.6	2.2	2.4	2.2	NR	NR
3	1.4	1.5	1.5	2.4	1.9	2.5	NR	NR	19	1.6	1.5	1.6	2.1	2.4	2.2	NR	NR
4	1.4	1.5	1.5	2.2	2.2	2.5	NR	NR	20	1.6	1.5	1.6	2.1	2.4	2.2	NR	NR
5	1.6	1.5	1.6	2.4	3.2	2.4	NR	NR	21	1.5	1.5	1.7	2.1	2.4	2.1	NR	1.8
6	1.6	1.5	1.6	2.4	3.3	2.4	NR	NR	22	1.5	1.5	2.1	2.0	2.4	2.1	NR	1.7
7	1.6	1.5	1.6	3.8	5.1	2.4	NR	NR	23	1.5	1.6	2.0	2.0	2.3	2.2	NR	1.7
8	1.6	1.5	1.9	6.3	4.2	2.4	NR	NR	24	1.5	1.8	1.9	2.0	2.3	2.2	2.2	1.7
9	1.6	1.5	1.9	3.8	3.3	2.3	NR	NR	25	1.5	1.9	2.5	2.0	2.3	2.1	2.2	1.7
10	1.6	1.5	1.9	3.2	3.0	2.3	NR	NR	26	1.5	1.6	2.8	2.0	2.3	2.1	2.2	1.7
11	1.6	1.5	2.0	2.8	2.8	2.3	NR	NR	27	1.5	1.6	2.4	2.0	2.4	2.6	2.2	1.7
12	1.6	1.5	1.9	2.6	2.8	2.3	NR	NR	28	1.5	1.5	2.4	2.0	2.6	2.5	2.1	1.7
13	1.6	1.5	1.7	2.5	2.8	2.3	NR	NR	29	1.5	1.5	2.2	2.0	2.4	2.3	2.1	1.7
14	1.6	1.5	1.7	2.4	2.7	2.3	NR	NR	30	1.5	1.5	2.1		2.8	2.3	2.0	1.7
15	1.6	1.5	1.7	2.3	2.6	2.2	NR	NR	31		1.5	2.0		2.8		2.0	
16	1.6	1.5	1.6	2.2	2.5	2.2	NR	NR									

Crest Stages:						
Date	1-26-60	2- 1-60	2- 8-60	3- 5-60	3- 7-60	3-30-60
Time	2:00 AM	6:30 PM	8:30 AM	8:00 PM	1:30 PM	3:30 PM
Stage	3.1	4.1	7.8	4.0	6.2	3.4

NR – No Record

TABLE 244

DAILY MEAN GAGE HEIGHT
BUTTE SLOUGH AT OUTFALL GATES

In second feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1	39.2	39.6	42.2	43.3	40.0	41.6	41.4	41.7	17	39.1	41.1	38.6	47.6	45.8	40.6	41.6	42.4
2	39.2	39.6	42.1	45.6	39.8	41.6	41.3	41.7	18	39.2	41.2	38.0	46.6	45.2	40.6	41.6	42.4
3	39.2	39.6	42.1	47.3	39.6	41.2	41.4	41.5	19	39.1	41.3	37.6	45.7	44.6	40.9	41.8	42.5
4	39.2	39.5	42.0	47.6	39.5	40.8	41.4	41.7	20	39.3	41.3	37.4	45.1	44.1	41.0	41.9	42.5
5	39.1	39.5	42.0	47.8	40.8	40.3	41.2	42.3	21	39.6	41.5	37.3	44.4	43.6	40.8	41.6	42.2
6	39.1	39.4	38.9	48.0	42.1E	39.8	41.0	42.0	22	39.6	41.5	38.2	43.6	43.2	41.1	41.8	42.3
7	39.1	39.4	36.5	48.1	44.8E	39.5	40.9	41.8	23	39.6	41.6	40.9	42.9	42.7	41.6	41.9	42.3
8	39.1	39.5	36.4	48.2	46.8A	39.0	41.2	42.4	24	39.6	42.0	42.1	42.3	42.3	41.5	42.1	42.3
9	39.0	40.1	36.8	50.7A	47.4A	39.5	41.4	42.4	25	39.6	42.4	41.0	41.7	42.0	41.6	42.0	42.3
10	38.9	40.9	37.7	56.7A	48.1A	40.1	41.6	42.4	26	39.7	42.7	42.6	41.2	41.6	41.6	42.1	42.3
11	38.9	41.2	37.8	57.3A	49.2	40.4	41.7	42.4	27	39.6	42.8	44.1	40.8	41.4	41.8	42.1	42.4
12	39.0	41.3	38.2	55.5E	48.5	40.1	41.7	42.5	28	39.6	42.7	43.5	40.6	41.2	42.1	42.0	42.4
13	39.1	41.2	39.3	53.8E	47.9	40.0	41.8	42.3	29	39.5	42.6	43.7	40.3	41.1	42.6	41.6	42.5
14	39.1	41.1	39.2	52.0E	48.7	39.8	41.8	42.5	30	39.6	42.5	44.1		40.9	41.9	41.7	42.4
15	39.1	41.0	38.9	50.6E	47.8	40.3	41.8	42.2	31		42.3	43.3		40.9		41.7	
16	39.1	41.0	39.0	49.0	46.7	40.7	41.7	42.3									

Crest Stages:								
Date	12-27-59	1-27-60	1-30-60	1-31-60	2- 7-60	3-11-60	3-14-60	7- 4-60
Time	7:00 AM	9:00 AM	1:30 AM	11:30 PM	8:00 PM	1:00 PM	1:30 PM	7:00 PM
Stage	42.8	44.2	44.5	43.5	48.2	49.5	48.8	42.8

E – Estimated NR – No Record
A-Individual daily ataff gage reading.
Note: Major crests during year occurring on February 10-11, March 9 were not recorded or observed.

TABLE 245

DAILY GAGE HEIGHT*
SACRAMENTO RIVER AT BUTTE SLOUGH OUTFALL GATES

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	NR	35.5	NR	42.0	NR	40.4	40.4	37.8	17	NR	NR	NR	NR	NR	36.0	38.5	38.3
2	36.3	NR	NR	NR	NR	40.5	40.1	37.3	18	35.5	NR	NR	NR	NR	36.5	38.5	38.4
3	36.4	NR	NR	57.8	NR	40.0	40.0	37.5	19	NR	NR	NR	NR	NR	36.4	38.5	38.4
4	NR	NR	35.6	NR	NR	39.7	40.1	38.0	20	NR	NR	NR	NR	NR	36.4	38.4	38.7
5	NR	NR	NR	NR	NR	39.4	40.0	38.2	21	NR	NR	NR	NR	NR	36.7	38.2	38.7
6	NR	NR	NR	NR	NR	38.8	40.0	38.0	22	NR	NR	NR	NR	NR	36.7	38.2	38.6
7	NR	NR	NR	NR	NR	38.5	39.4	38.1	23	NR	NR	NR	NR	NR	37.8	38.5	38.6
8	NR	NR	NR	NR	54.2	38.3	39.0	38.0	24	NR	NR	NR	NR	NR	37.8	38.8	38.8
9	NR	NR	NR	60.2	57.8	37.6	39.1	37.8	25	NR	NR	NR	NR	NR	38.8	39.4	38.8
10	NR	NR	NR	61.4	53.4	39.1	39.0	37.6	26	NR	NR	NR	NR	NR	39.8	39.8	38.9
11	NR	NR	NR	59.4	NR	36.7	38.8	37.6	27	NR	NR	NR	NR	NR	39.3	39.2	38.9
12	NR	NR	NR	NR	NR	36.4	38.7	38.2	28	NR	37.0	NR	NR	NR	40.1	39.4	38.9
13	NR	NR	NR	NR	NR	36.0	38.6	38.4	29	NR	NR	NR	39.7	NR	42.2	39.2	39.0
14	NR	NR	NR	NR	NR	35.8	38.7	38.2	30	NR	NR	NR		NR	41.3	38.8	39.2
15	NR	NR	NR	NR	NR	35.6	38.7	38.2	31		NR	NR		NR		38.3	
16	NR	NR	NR	NR	NR	35.4	38.6	38.2									

Crest Stages:		
	Date	
	Time	
	Stage	

NR – No Record
* Individual daily staff gage readings.

TABLE 246

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT MERIDIAN

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	34.1	33.4	33.7	39.8	37.8	38.9	38.3	35.5	17	33.4	33.1	35.1	44.4	42.5	34.4	36.4	36.0
2	34.2	33.4	33.7	45.8	37.6	38.7	38.0	35.0	18	33.4	33.2	34.8	43.2	41.6	34.6	36.3	36.1
3	34.3	33.4	33.7	54.6	37.3	38.2E	37.9	35.3	19	33.4	33.3	34.6	42.1	41.1	34.5	36.1	36.3
4	34.3	33.2	33.6	51.3	37.2	37.9E	38.0	35.8	20	33.4	33.5	34.5	41.4	40.7	34.6	36.1	36.4
5	34.3	33.0	33.7	50.8	38.3	37.5	37.9	35.9	21	33.4	33.6	34.5	40.8	40.3	34.8	36.0	36.4
6	33.8	33.0	33.9	49.0	42.8	37.0E	37.7	35.7	22	33.4	33.4	35.1	40.1	40.0	34.7	36.0	36.2
7	33.6	33.0	34.0	47.8	49.3	36.6E	37.2	35.8	23	33.4	33.6	37.5E	39.6	39.6	34.7	36.4	36.3
8	33.6	33.0	34.0	50.9	52.6	36.2	36.9	35.6	24	33.4	33.8	39.0	39.2	39.3	35.7	36.7	36.5
9	33.6	33.0	34.2	57.6	55.1	35.9	37.0	35.4	25	33.4	33.9	37.7	38.9	39.0	36.7	37.2	36.6
10	33.6	32.9	34.7	58.3	52.1	35.5	36.9	35.4	26	33.4	34.2	39.3	38.6	38.8	37.0	37.5	36.6
11	33.6	33.0	34.8	56.8	48.4	35.0	36.7	35.7	27	33.4	34.2E	40.9	38.4	38.7	37.3	37.1	36.6
12	33.5	33.0	34.9	55.0	45.8	34.6	36.6	36.0	28	33.4	34.0E	39.9	38.2	38.5	38.4	37.1	36.6
13	33.4	33.1	35.8	52.2	44.8E	34.3	36.6	36.1	29	33.4	33.8	40.1	38.0	38.4	39.8	36.9	36.7
14	33.3	33.2	35.6	49.9	46.8	34.1	36.6	36.0	30	33.4	33.7	40.8		38.2E	39.0	36.5	36.8
15	33.3	33.1	35.2	48.0	45.7	33.9	36.6	35.9	31		33.7	39.8		38.1E		35.9	
16	33.3	33.1	35.3	46.0	43.8	33.9	36.5	35.9									

Crest Stages.								
	Date	1-27-60	1-30-60	2- 3-60	2- 5-60	2- 6-60	2-10-60	3- 9-60	3-14-60
	Time	9:00 AM	3:00 AM	9:30 AM	8:30 AM	10:00 PM	5:00 AM	5:30 AM	3:30 PM
	Stage	41.1	41.2	55.2	51.2	49.0	58.6	55.4	47.2

E – Estimated NR – No Record

TABLE 247

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

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec.	Jan	Feb.	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr	May	June
1	29.0	28.2	28.6	35.6	32.7	34.0	33.0	30.1	17	28.1	27.9	30.3	41.0	37.9	27.4	30.9	30.0
2	29.0	28.2	28.6	35.6	32.5	34.4	32.5	29.5	18	28.1	28.0	30.0	39.4	37.7	28.3	30.7	30.2
3	29.1	28.2	28.6	49.5	32.2	33.8	32.2	29.2	19	28.1	28.2	29.7	38.0	36.9	28.2	30.6	30.2
4	29.1	28.1	28.5	47.7	32.0	33.4	32.4	29.7	20	28.1	28.3	29.5	37.2	36.3	28.0	30.6	30.4
5	29.2	28.1	28.5	47.0	32.0	32.8	32.3	30.1	21	28.1	28.4	29.5	36.5	36.0	28.4	30.5	30.5
6	28.9	27.8	28.6	45.2	36.8	32.1	32.3	30.0	22	28.1	28.4	29.7	35.7	35.5	28.3	30.4	30.5
7	28.5	27.8	29.0	44.5	43.6	31.7	31.8	30.0	23	28.1	28.4	30.9	35.0	35.0	28.1	30.7	30.2
8	28.5	27.8	29.0	42.4	46.9	31.2	31.3	30.0	24	28.1	28.6	34.8	34.4	34.7	28.5	31.2	30.4
9	28.4	27.8	29.0	42.0	50.0	30.7	31.3	29.5	25	28.2	28.8	33.3	34.0	34.4	30.0	31.5	30.6
10	28.4	27.7	29.6	52.0	48.6	29.8	31.2	29.4	26	28.2	29.0	33.9	33.7	34.1	30.7	32.4	30.7
11	28.4	27.7	29.9	51.2	45.5	29.1	31.0	29.5	27	28.2	29.3	36.5	33.4	34.0	31.1	32.0	30.7
12	28.4	27.7	30.0	50.3	42.9	28.8	31.0	30.0	28	28.2	29.0	36.0	33.2	33.8	31.9	31.9	30.8
13	28.3	27.8	30.4	48.8	41.0	28.2	30.9	30.2	29	28.2	28.8	35.1	33.0	33.7	34.1	31.7	30.8
14	28.1	27.9	31.0	46.9	42.5	27.8	31.0	30.1	30	28.2	28.7	36.8		33.7	34.0	31.4	31.1
15	28.1	27.9	30.4	45.2	42.6	27.4	31.0	30.0	31		28.6	35.3		33.3		30.7	
16	28.1	27.9	30.4	42.9	40.5	27.4	31.0	30.0									

Crest Stages:	Date	
	Time	
	Stage	

E-Estimated NR-No Record
* Individual daily staff gage readings.

TABLE 248

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

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	22.1	22.2	23.3	24.8	23.0	23.6	24.8	24.6	17	22.2	22.4	22.3	33.4	31.4	22.8	24.0	23.0
2	22.1	22.2	23.2	25.0	22.7	23.5	24.4	24.3	18	22.2	22.4	22.3	32.8	30.5	22.9	23.8	23.0
3	22.1	22.2	23.0	34.2	22.6	23.4	23.8	23.8	19	22.2	22.4	22.3	32.0	29.6	22.9	23.8	23.0
4	22.1	22.2	22.9	32.6	22.8	23.0	23.8	23.0	20	22.2	22.4	23.2	31.0	28.2	22.8	23.8	23.2
5	22.1	22.2	22.9	30.7	22.8	22.6	23.7	23.0	21	22.2	22.4	22.4	29.6	27.0	22.6	23.7	23.2
6	22.1	22.2	22.9	30.4	23.0	22.6	23.6	23.1	22	22.2	22.5	22.4	28.2	26.0	22.6	23.8	22.8
7	22.1	22.2	22.8	30.4	26.6	22.7	23.6	23.2	23	22.2	22.5	22.2	26.8	25.4	22.8	23.9	22.9
8	22.1	22.2	23.4	30.6	30.2	22.6	23.6	23.4	24	22.2	23.3	22.4	25.6	25.0	22.8	24.4	23.0
9	22.1	22.2	22.8	39.6	37.2	22.6	23.5	23.4	25	22.2	23.5	22.8	24.8	24.5	23.4	25.2	23.1
10	22.1	22.2	22.5	42.2	35.6	22.6	23.6	23.4	26	22.2	23.7	23.0	24.1	24.1	23.4	25.4	23.1
11	22.1	22.2	22.2	42.4	33.9	22.6	23.6	23.3	27	22.2	23.6	23.2	23.6	24.0	23.5	25.4	23.2
12	22.1	22.2	22.3	40.8	33.4	23.0	23.7	23.3	28	22.2	23.3	24.2	23.4	23.6	24.2	25.1	23.2
13	22.1	22.2	22.3	38.2	33.0	23.0	23.9	23.2	29	22.2	23.4	24.6	23.1	23.4	24.8	25.1	23.2
14	22.1	22.4	22.3	36.2	32.6	22.9	23.9	23.2	30	22.2	23.4	24.6		23.2	24.9	25.0	23.4
15	22.1	22.3	22.4	35.0	32.4	22.8	23.9	23.2	31		23.4	24.6		23.0		24.6	
16	22.2	22.4	22.3	34.0	32.2	22.8	24.0	23.1									

Crest Stages.	Date	
	Time	
	Stage	

E-Estimated NR-No Record
* Average of twice daily staff gage readings - 7:00 AM and 5:00 PM.

TABLE 249

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT TISDALE WEIR

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1									17								
2									18								
3				46.9a					19								
4				46.2a					20								
5									21								
6									22								
7									23								
8				47.0a	46.6a				24								
9				48.2	47.5				25								
10				48.5	46.6				26								
11				48.1	45.6a				27								
12				47.6					28								
13				46.7					29								
14				45.7a					30								
15									31								
16																	

Crest Stages:				
	Date	2- 3-60	2-10-60	3- 9-60
	Time	1:00 PM	11:00 AM	9:00 AM
	Stage	47.2	48.6	47.5

E - Estimated NR - No Record
a Mean gage height for period of flow.

TABLE 250

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER BELOW TISDALE WEIR

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	27.4A	26.6A	27.0	33.9	31.1	32.7	30.8	27.9	17	26.5A	26.4	28.6	39.2	37.2A	25.8A	28.8	27.7
2	27.4A	26.6	27.0	37.7	30.9	32.8	30.3	27.3	18	26.6A	26.4	28.3	37.7	36.1	26.1A	28.7	27.8
3	27.5A	26.6	26.9	46.7	30.5	32.3	30.2	27.2	19	26.6A	26.5	28.1	36.4	35.3	25.8A	28.6	28.0
4	27.5A	26.5	26.9	45.4	30.3	31.8	30.4	27.7	20	26.6A	26.7	28.0	35.5	34.8	25.5A	28.5	28.2
5	27.5A	26.4	26.9	45.0	30.9	31.2	30.3	28.0	21	26.6A	26.8	27.9	34.8	34.4	25.8A	28.5	28.2
6	27.4A	26.4	27.1	43.5	35.2	30.5	30.2	27.8	22	26.6A	26.7	28.4	34.0	34.0	25.7A	28.4	28.0
7	27.0A	26.4	27.3	42.5	42.0	30.0	29.7	27.8	23	26.6A	26.8	31.0	33.3	33.5	25.5A	28.8	28.0
8	26.8A	26.3	27.3	43.3	45.5	29.4	29.2	27.6	24	26.6A	27.0	32.8	32.8	33.1	26.2A	29.3	28.2
9	26.7A	26.3	27.4	48.2	47.1	29.0	29.2	27.2	25	26.6A	27.2	31.6	32.4	32.8	27.9	29.9	28.4
10	26.7A	26.3	28.0	48.7	46.4	28.6	29.2	27.2	26	26.6A	27.5	32.8	32.0	32.6	28.4	30.4	28.5
11	26.7A	26.3	28.2	48.2	44.0A	28.0	29.0	27.5	27	26.6A	27.6	34.8	31.8	32.5	29.0	30.0	28.5
12	26.7A	26.2	28.4	47.6	41.2A	27.3	28.9	27.8	28	26.6A	27.4	34.2	31.6	32.3	30.3	30.0	28.6
13	26.6A	26.3	29.1	46.6	39.6A	26.8	28.9	28.0	29	26.6A	27.2	33.9	31.3	32.2	32.1	29.8	28.8
14	26.5A	26.4	29.3	45.1	41.3A	26.2A	29.0	27.9	30	26.6A	27.1	34.9		32.2	31.7	29.4	29.0
15	26.5A	26.4	28.8	43.2	40.7A	25.8A	29.0	27.7	31		27.0	33.8		31.9		28.6	
16	26.5A	26.4	28.8	41.1	38.6A	25.2A	28.9	27.7									

Crest Stages								
	Date	1-27-60	1-30-60	2- 1-60	2- 3-60	2- 5-60	2- 7-60	2-10-60	3- 9-60
	Time	1:00 PM	6:00 AM	9:00 AM	1:00 PM	12:15 PM	1:00 AM	11:00 AM	10:00 AM
	Stage	35.0	35.2	34.0	47.1	45.2	43.3	48.8	47.2

E - Estimated NR - No Record
A-Average of twice daily staff gage readings.

TABLE 251

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER BELOW WILKINS SLOUGH

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	27.0	26.2	26.5	33.4	30.7	32.2	30.5	27.7	17	26.1	25.9	28.2	38.8	36.8	25.5	28.5	27.5
2	27.0	26.2	26.5	37.2	30.5	32.4	30.0	27.0	18	26.2	26.0	27.9	37.2	35.6	25.8	28.4	27.6
3	27.1	26.2	26.5	46.1	30.1	31.9	29.9	27.0	19	26.2	26.1	27.6	36.0	34.8	25.6	28.3	27.7
4	27.1	26.1	26.5	45.0	30.0	31.4	30.0	27.5	20	26.2	26.3	27.5	35.1	34.4	25.3	28.2	27.9
5	27.1	25.9	26.5	44.4	30.5	30.8	30.0	27.8	21	26.2	26.4	27.4	34.4	33.9	25.6	28.2	28.0
6	26.9	25.8	26.7	42.9	35.1	30.1	29.9	27.6	22	26.2	26.3	27.8	33.6	33.5	25.5	28.2	27.8
7	26.5	25.8	26.9	42.0	41.9	29.7	29.4	27.6	23	26.2	26.4	30.2	32.8	33.0	25.4	28.6	27.7
8	26.4	25.8	26.9	42.8	45.3	29.1	29.0	27.4	24	26.2	26.6	32.3	32.4	32.6	26.1	29.1	28.0
9	26.4	25.8	27.0	47.6	46.8	28.6	29.0	27.0	25	26.2	26.8	31.2	32.0	32.4	27.7	29.6	28.1
10	26.3	25.7	NR	48.1	45.9	28.2	28.9	27.0	26	26.2	27.0	32.1	31.6	32.1	28.2	30.1	28.2
11	26.3	25.7	NR	47.6	43.5	27.7	28.7	27.2	27	26.2	27.2	34.3	31.4	32.0	28.8	29.8	28.2
12	26.3	25.8	NR	47.1	40.9	27.0	28.6	27.6	28	26.2	27.0	33.8	31.2	31.9	30.0	29.7	28.3
13	26.2	25.8	28.6	46.0	39.3	26.5	28.6	27.8	29	26.2	26.7	33.4	30.9	31.8	31.8	29.5	28.4
14	26.1	25.9	28.9	44.6	40.7	26.0	28.7	27.6	30	26.2	26.6	34.4		31.8	31.4	29.1	28.7
15	26.0	25.9	28.3	42.8	40.2	25.5	28.7	27.5	31		26.6	33.4		31.5		28.4	
16	26.0	25.9	28.3	40.6	38.3	25.0	28.6	27.4									

Crest Stages:					
	Date	1-27-60	1-30-60	2- 3-60	2-10-60	3- 9-60
	Time	4:00 PM	7:00 AM	3:00 PM	12:00 Noon	10:00 AM
	Stage	34.5	34.7	46.5	48.2	46.9

NR — No Record

TABLE 252

DAILY GAGE HEIGHT*
SACRAMENTO RIVER NEAR ROUGH AND READY BEND

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	19.3	18.5	18.9	25.3	23.5	25.8	23.8	21.0	17	18.5	18.2	21.1	32.7	31.8	18.5	22.1	19.7
2	19.4	18.5	18.9	27.4	23.1	25.6	23.2	20.3	18	18.5	18.0	20.5	31.0	29.7	18.5	22.0	19.7
3	19.4	18.5	18.9	37.4	23.0	26.3E	23.0	20.0	19	18.5	18.0	20.4	28.3	28.7	18.3	21.8	19.6
4	19.5	18.5	18.9	37.2	22.5	25.7	23.2	20.2	20	18.5	18.2	19.9	27.4	28.1	18.4	21.6	19.8
5	19.5	18.5	18.8	36.0	22.6	25.1	23.2	20.4	21	18.5	18.5	19.8	26.0	27.5	18.2	21.4	20.0
6	19.5	18.5	18.8	35.2E	24.4	24.4	23.0	20.2	22	18.5	18.6	20.1	25.6	27.1	18.0	21.2	20.0
7	19.4	18.5	18.8	34.5	33.0	23.8	22.6	20.0	23	18.5	18.7	21.8	25.9	26.6	18.0	21.7	19.9
8	19.5	18.3	18.8	32.9	37.1	23.8	22.2	19.8	24	18.5	18.7	24.5	25.3	26.3	18.0	22.5	19.8
9	19.0	18.2	18.8	40.5	39.9	22.9	22.1	19.4	25	18.5	18.8	24.2	24.8	26.1	20.2	23.3	20.0
10	18.8	18.1	18.9	41.7	40.1	22.5	22.2	19.5	26	18.5	18.9	23.9	24.5	25.8	21.6	23.7	20.2
11	18.7	18.0	20.9	41.4	38.6	22.2	22.3	19.6	27	18.5	19.5	26.3	24.1	25.8	22.0	23.4	20.2
12	18.7	18.0	20.4	40.9	36.1	21.4	22.3	19.7	28	18.5	19.6	26.8	23.9	25.8	23.5	23.3	20.2
13	18.8	18.0	20.5	40.3	34.0	20.6	22.2	19.8	29	18.5	19.6	25.8	23.7	26.2	24.9	23.2	20.2
14	18.8	18.0	21.5	39.0	34.8	19.6	22.3	19.8	30	18.5	19.6	26.7		26.1	24.8	22.6	20.5
15	18.8	18.0	21.1	37.3	34.6	19.3	22.4	19.8	31		18.9	25.3		25.8		21.7	
16	18.6	18.0	21.0	35.1	32.8	18.3	22.4	19.8									

Crest Stages:	
Date	
Time	
Stage	

E - Estimated NR - No Record

* Average of two daily staff gage readings during periods of pump operation; individual daily staff gage reading when pumps not in operation.

TABLE 253

DAILY MEAN GAGE HEIGHT
COLUSA BASIN DRAIN AT HIGHWAY 20

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	39.4	39.6	38.2	39.4	38.1	38.9	43.4	40.6	17	39.9	39.8	38.7	39.2	38.2	38.0	43.7	40.1
2	39.5	39.7	38.2	43.1	38.1	39.1	43.2	39.8	18	39.6	39.9	38.6	39.1	38.1	37.9	43.3	40.1
3	39.5	39.7	38.2	43.8	38.1	38.9	43.4	39.2	19	39.5	39.6	38.4	38.9	38.1	38.1	43.0	40.2
4	39.4	39.6	38.2	43.7	38.1	38.8	43.4	38.9	20	39.3	39.3	38.3	38.7	38.0	38.2	43.1	40.5
5	39.4	39.4	38.0	43.7	38.2	38.7	43.2	38.6	21	39.4	39.0	38.4	38.5	38.0	38.4	42.8	40.2
6	39.3	39.4	38.0	43.8	38.2	39.7	42.8	38.6	22	39.4	39.0	40.6	38.4	38.0	39.1	42.9	39.9
7	39.3	39.4	38.1	42.6	38.2	39.8	43.0	39.2	23	39.3	39.5	41.3	38.4	38.0	39.7	43.4	40.1
8	39.4	39.4	38.7	44.4	38.2	39.4	43.2	40.0	24	39.2	40.2	40.2	38.2	38.0	40.6	44.8	40.2
9	39.4	39.4	39.0	45.6	38.2	39.1	43.4	40.0	25	39.3	40.2	40.8	38.2	38.1	41.4	45.4	40.4
10	39.6	39.4	39.2	44.1	38.2	38.5	43.7	39.9	26	39.3	39.3	41.4	38.2	38.4	41.9	45.6	40.4
11	39.6	39.3	39.2	42.2	38.2	38.4	43.9	40.1	27	39.4	39.1	40.6	38.2	38.3	43.7	45.3	40.6
12	39.6	39.3	39.2	41.0	38.1	38.8	44.0	40.4	28	39.4	38.6	39.9	38.1	38.4	45.2	44.5	40.7
13	39.5	39.4	39.0	40.3	38.2	38.3	43.9	40.6	29	39.6	38.5	39.5	38.1	38.9	44.8	43.5	40.9
14	39.5	39.5	39.0	39.9	38.3	37.9	43.8	40.7	30	39.6	38.4	39.2		39.4	44.0	42.3	41.0
15	39.7	39.5	39.0	39.6	38.2	37.8	43.8	40.7	31		38.3	39.1		39.2		41.5	
16	39.9	39.4	38.9	39.4	38.1	37.8	43.8	40.4									

Crest Stages.								
Date	1-23-60	1-26-60	2- 4-60	2- 6-60	2- 9-60	4-28-60	5- 3-60	5-26-60
Time	4:00 AM	11:00 AM	2:30 AM	1:30 AM	10:30 AM	8:00 AM	3:30 PM	6:00 PM
Stage	41.6	41.5	43.8	43.9	45.8	45.3	43.5	45.7

E - Estimated NR - No Record

TABLE 254

DAILY MEAN GAGE HEIGHT
COLUSA BASIN DRAIN NEAR COLLEGE CITY

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan	Feb.	Mar	Apr	May	June
1	25.3	25.6	24.6	25.4	24.5	25.8	28.4	26.5	17	26.0	25.6	25.0	26.6	25.3	23.9	28.7	25.6
2	25.4	25.6	24.5	27.1	24.5	26.0	28.2	25.9	18	25.8	25.8	24.9	26.4	25.4	23.8	28.5	25.7
3	25.5	25.6	24.5	28.7	24.4	25.9	28.3	25.4	19	25.6	25.6	24.8	26.2	25.4	23.8	28.3	25.7
4	25.5	25.6	24.6	29.4	24.5	25.6	28.4	25.0	20	25.6	25.3	24.7	25.7	25.2	24.1	28.3	25.9
5	25.5	25.5	24.4	29.5	24.5	25.4	28.3	24.7	21	25.5	25.2	24.7	25.1	24.8	24.0	28.2	25.8
6	25.3	25.4	24.4	29.6	24.6	25.6	27.9	24.6	22	25.5	25.0	25.4	24.8	24.5	24.2	28.1	25.5
7	25.2	25.4	24.4	29.2	24.5	26.0	27.8	24.8	23	25.4	25.2	26.6	24.7	24.4	24.8	28.4	25.6
8	25.4	25.4	24.8	29.5	24.6	25.9	28.0	25.3	24	25.4	25.7	26.1	24.6	24.3	25.3	29.3	25.7
9	25.5	25.3	25.1	30.7	24.6	25.7	28.2	25.6	25	25.4	26.0	26.1	24.6	24.6	26.3	29.9	25.9
10	25.6	25.4	25.3	31.0	24.6	25.4	28.5	25.6	26	25.4	25.4	26.6	24.6	25.2	27.0	30.2	25.9
11	25.7	25.4	25.2	30.3	24.7	25.0	28.6	25.7	27	25.4	25.2	26.4	24.6	25.3	27.9	30.2	26.0
12	25.7	25.3	25.3	29.2	24.8	25.1	28.8	25.9	28	25.3	25.0	25.9	24.5	25.3	29.2	29.7	NR
13	25.7	25.4	25.2	28.0	25.1	25.0	28.8	26.0	29	25.4	24.8	25.6	24.5	25.5	29.4	29.0	NR
14	25.7	25.5	25.1	27.3	25.2	24.5	28.7	26.1	30	25.5	24.8	25.4		26.1	29.0	28.0	NR
15	25.8	25.5	25.2	27.0	25.3	24.2	28.8	26.2	31		24.6	25.2		26.0		27.1	
16	25.9	25.4	25.1	26.7	25.1	24.0	28.8	26.0									

Crest Stages.								
Date	2- 6-60	2-10-60	4-29-60	5-13-60	5-15-60	5-27-60	9- 1-60	9- 3-60
Time	8:00 AM	2:30 AM	2:30 AM	7:00 AM	9:00 PM	4:30 AM	8:00 AM	9:00 PM
Stage	29.6	31.2	29.5	28.8	28.8	30.3	29.2	30.0

E - Estimated NR - No Record

TABLE 255

DAILY MEAN GAGE HEIGHT
COLUSA BASIN DRAIN AT KNIGHTS LANDING

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec	Jan	Feb	Mar	Apr	May	June
1	20.9	21.1	20.3	22.2	20.4	24.8	23.8	23.7	17	21.5	21.1	20.7	26.2	25.3	23.2	24.0	24.2
2	20.9	21.2	20.2	23.0	20.2	24.8	24.2	23.8	18	21.5	21.2	20.6	26.2	25.3	23.0	24.0	24.2
3	21.0	21.3	20.2	26.1	20.1	24.2	24.2	23.9	19	21.4	21.2	20.5	26.0	25.4	22.7	23.9	24.5
4	21.1	21.3	20.1	27.3	20.0	23.6	24.4	23.7	20	21.3	21.2	20.4	25.3	25.2	22.5	24.0	24.5
5	21.1	21.2	20.0	27.4	20.1	23.1	24.4	23.4	21	21.2	21.0	20.3	24.4	24.7	22.4	24.1	24.2
6	21.0	21.1	20.0	27.4	21.2	22.7	24.2	23.3	22	21.2	20.8	20.5	23.5	24.2	22.2	24.0	24.3
7	21.0	21.1	19.9	27.3	21.8	23.2	24.0	23.5	23	21.1	20.8	21.2	22.6	23.9	22.3	24.0	24.2
8	20.9	21.0	20.0	27.3	22.3	23.9	24.2	23.9	24	21.1	21.0	21.7	22.0	23.6	22.9	24.2	24.3
9	21.0	21.0	20.4	28.6	22.9	24.2	24.4	24.4	25	21.0	21.3	21.7	21.6	23.4	23.9	24.3	24.5
10	21.1	20.9	20.7	28.5	23.7	24.2	24.5	24.5	26	21.0	21.4	21.9	21.2	23.3	24.6	24.4	24.5
11	21.2	21.0	20.8	29.2	24.4	24.0	24.3	24.5	27	21.0	21.1	23.2	21.0	23.4	24.0	24.5	24.3
12	21.2	21.0	20.9	28.3	24.7	23.8	24.3	24.4	28	21.1	20.9	23.5	20.8	23.6	23.6	24.4	24.4
13	21.3	21.0	20.9	27.3	24.9	23.8	24.2	24.4	29	21.0	20.6	23.0	20.6	24.3	24.0	24.0	24.4
14	21.3	21.0	20.8	26.8	25.1	23.8	23.8	24.4	30	21.0	20.5	23.0		24.2	23.9	23.7	24.4
15	21.3	21.0	20.8	26.6	25.2	23.7	23.9	24.5	31		20.4	22.7		24.1		23.4	
16	21.4	21.1	20.8	26.4	25.4	23.5	24.0	24.3									

Crest Stages:								
Date	2- 6-60	2-10-60	3-14-60	3-16-60	3-19-60	4- 1-60	4-26-60	9- 2-60
Time	1:30 PM	6:30 AM	1:00 PM	9:30 AM	12:00 Noon	6:30 PM	9:00 AM	8:15 AM
Stage	27.5	29.5	25.3	25.5	25.4	24.9	24.8	24.9

E-Estimated NR-No Record

TABLE 256

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT KNIGHTS LANDING

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	16.0	15.4	15.8	21.7	19.7	24.5	21.0	18.3	17	15.4	15.2	17.4	29.5	27.9	16.4	19.3	16.4
2	16.1	15.5	15.7	22.8	19.4	24.3	20.2	17.8	18	15.6	15.2	17.1	27.4	26.6	16.2	19.2	16.2
3	16.2	15.5	15.7	30.3	19.2	23.7	20.0	17.4	19	15.6	15.4	16.8	25.9	25.6	15.9	19.1	16.2
4	16.2	15.5	15.6	31.0	18.9	23.1	20.1	17.4	20	15.6	15.4	16.7	24.9	25.0	15.8	18.9	16.5
5	16.1	15.3	15.5	30.4	19.3	22.6	20.1	17.5	21	15.5	15.6	16.7	23.9	24.5	16.1	18.8	16.7
6	16.0	15.1	15.5	29.8	23.8	21.9	20.1	17.2	22	15.5	15.5	16.8	23.0	24.0	15.8	18.8	16.5
7	15.7	15.1	15.8	29.1	29.6	21.5	19.7	16.8	23	15.5	15.5	18.1	22.2	23.6	15.9	18.9	16.2
8	15.5	15.0	15.9	30.6	33.3	21.2	19.3	16.6	24	15.5	15.8	20.2	21.5	23.3	16.0	19.4	16.2
9	15.5	15.1	16.1	37.2	36.0	21.0	19.4	16.4	25	15.5	16.2	20.4	21.2	23.1	16.7	20.3	16.5
10	15.5	15.0	16.7	37.8	36.2	20.9	19.6	16.4	26	15.5	16.6	20.7	20.7	22.9	17.8	21.0	16.6
11	15.5	15.0	17.1	37.6	35.1	20.4	19.7	16.4	27	15.4	16.6	22.7	20.4	23.0	18.9	21.0	16.7
12	15.5	15.0	17.5	37.2	33.2	19.6	19.6	16.7	28	15.4	16.3	23.0	20.3	23.4	20.4	20.9	16.6
13	15.5	15.0	17.9	36.5	31.5	18.8	19.8	16.8	29	15.4	15.9	22.3	19.9	24.1	21.7	20.8	16.7
14	15.4	15.1	18.1	35.6	31.6	17.7	19.9	16.6	30	15.4	15.8	22.6		23.8	21.9	20.2	17.0
15	15.3	15.2	17.7	34.3	31.3	17.2	19.7	16.6	31		15.8	22.1		23.7		19.3	
16	15.4	15.2	17.5	31.9	29.8	16.5	19.5	16.5									

Crest Stages:				
Date	1-28-60	2- 4-60	2-10-60	3-10-60
Time	1:00 AM	3:30 AM	12:00 PM	1:00 AM
Stage	23.3	31.6	37.9	36.4

NR-No Record

TABLE 257

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT FREMONT WEIR WEST END

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	14.1	13.8	14.2	19.4	17.8	23.6	19.3	17.0	17	13.6	13.5	15.6	27.9	26.4	15.9	17.9	14.7
2	14.2	13.8	14.1	20.4	17.6	23.2	18.5	16.7	18	13.8	13.6	15.2	25.7	25.1	15.6	17.7	14.6
3	14.3	13.8	14.0	27.1	17.3	22.6	18.4	16.4	19	13.9	13.7	15.0	24.1	24.1	15.3	17.6	14.6
4	14.2	13.8	14.0	28.0	17.0	22.0	18.5	16.3	20	13.9	13.7	15.1	23.0	23.4	15.4	17.3	14.7
5	14.2	13.5	13.9	27.5	17.7	21.6	18.5	16.3	21	13.9	13.8	14.9	21.8	22.9	15.5	17.2	14.9
6	14.1	13.4	13.9	27.2	22.9	21.0	18.5	16.0	22	13.8	13.8	15.1	20.9	22.4	15.2	17.3	14.7
7	13.8	13.4E	14.1	26.7	28.0	20.6	18.1	15.5	23	13.8	13.8	16.2	20.1	22.2	15.3	17.3	14.4
8	13.6	13.4E	14.2	29.1	31.5	20.4	17.9	15.4	24	13.8	14.1	18.0	19.5	21.9	15.3	17.7	14.5
9	13.6	13.4	14.6	35.9	34.3	20.3	18.1	15.1	25	13.8	14.5	18.2	19.1	21.8	15.9	18.6	14.7
10	13.6	13.4	15.2	36.2	34.6	20.2	18.3	15.0	26	13.8	15.1	18.8	18.8	21.7	16.6	19.3	14.8
11	13.6	13.4	NR	36.0	33.7	19.8	18.3	15.0	27	13.8	14.9	20.8	18.5	21.8	17.4	19.3	14.8
12	13.6	13.3	NR	35.5	31.9	19.1	18.4	15.1	28	13.8	14.5	20.8	18.3	22.3	19.0	19.2	14.7
13	13.6	13.4	16.3E	34.9	30.3	18.2	18.5	15.2	29	13.8	14.2	20.3	18.0	23.2	20.0	19.2	14.8
14	13.6	13.5	16.2	34.1	30.3	17.2	18.6	15.1	30	13.8	14.2	20.3		22.7	20.0	18.7	15.1
15	13.6	13.5	15.9	32.6	29.8	16.7	18.3	15.0	31		14.2	19.5		22.8		17.9	
16	13.6	13.5	15.8	30.4	28.3	16.2	18.0	14.8									

Crest Stages:								
	Date	1-27-60	2- 4-60	2- 9-60	3- 9-60	3-14-60	3-29-60	4- 1-60	4-30-60
	Time	10:00 PM	5:30 AM	8:00 PM	11:50 PM	2:00 PM	11:00 AM	1:20 PM	4:00 AM
	Stage	21.2	28.3	36.3	34.7	30.4	23.3	23.7	20.4

NR – No Record

TABLE 258

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT FREMONT WEIR EAST END

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June
1									17								
2									18								
3									19								
4									20								
5									21								
6									22								
7									23								
8									24								
9				35.4	33.8A				25								
10				35.6	33.9				26								
11				35.4	33.5A				27								
12				34.8					28								
13				34.2					29								
14				33.7A					30								
15									31								
16																	

Crest Stages			
	Date	2- 9-60	3-10-60
	Time	6:45 PM	1:00 AM
	Stage	35.8	34.0

E - Estimated NR - No Record
A-Mean gage height for period of flow.
Note: Tabulation of gage height left blank below crest of weir - 33.5 feet.

TABLE 259

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

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	12.6	12.4	13.2	17.6	16.2	23.0	18.1	16.4	17	12.3	12.3	14.2	28.2	26.4	15.5	17.0	13.9
2	12.7	12.4	13.1	18.7	16.0	22.5	17.4	16.2	18	12.4	12.3	13.8	26.6	24.8	15.1	16.8	13.7
3	12.8	12.4	13.0	23.9	15.7	21.7	17.2	16.0	19	12.6	12.4	13.6	24.8	23.5	14.8	16.7	13.6
4	12.7	12.4	12.8E	25.3	15.5	21.1	17.4	15.8	20	12.5	12.4	13.8	22.8	22.5	14.9	16.4	13.6
5	12.6	12.3	12.8E	25.2	16.4	20.7	17.4	15.6	21	12.5	12.5	13.7	21.0	21.9	15.0	16.2	13.6
6	12.6	12.1	12.8	25.1	21.9	20.2	17.3	15.2	22	12.4	12.5	13.8	19.8	21.4	15.0	16.4	13.6
7	12.4	12.1	12.9	24.7	26.4	19.9	17.0	14.7	23	12.4	12.5	14.7	18.9	21.1	14.8	16.5	13.5
8	12.2	12.1	13.1	27.6	30.2	19.8	16.9	14.6	24	12.4	12.9	16.1	18.1	20.9	14.8	16.9	13.4
9	12.2	12.1	13.5	36.0	33.5	19.8	17.1	14.4	25	12.4	13.7	16.5	17.6	20.8	15.2	17.9	13.4
10	12.2	12.1	14.1	36.2	33.8	19.6	17.4	14.3	26	12.4	14.2	17.5	17.3	20.7	15.7	18.5	13.4
11	12.1	12.1	14.2	35.9	32.7	19.2	17.4	14.2	27	12.4	13.8	19.4	17.0	20.8	16.4	18.5	13.6
12	12.1	12.0	14.7	35.2	31.1	18.6	17.5	14.3	28	12.3	13.3	19.3	16.7	21.4	18.1	18.4	13.6
13	12.2	12.1	15.1	34.3	29.7	17.8	17.6	14.4	29	12.3	13.0	18.8	16.4	22.5	18.8	18.4	13.6
14	12.2	12.2	14.8	33.2	29.4	16.8	17.7	14.3	30	12.3	13.1	18.4		21.9	18.7	18.1	13.7
15	12.2	12.1	14.4	31.8	29.0	16.3	17.4	14.2	31		13.2	18.0		22.1		17.0	
16	12.2	12.2	14 4	30.0	27.8	15.8	17.0	14.0									

Crest Stages:								
Date	2- 4-60	2- 9-60	3-10-60	3-14-60	3-25-60	3-27-60	3-29-60	4- 1-60
Time	5:30 AM	7:00 PM	1:00 AM	3:30 AM	1:00 AM	2:00 AM	10:30 AM	2:00 PM
Stage	25.4	36.5	34.0	29.5	20.9	20.8	22.6	23.1

NR — No Record

TABLE 260

DAILY MEAN GAGE HEIGHT
BUTTE SLOUGH AT MAWSON BRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb.	Mar	Apr	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	39.6	39.9	42.1	43.6	40.6	41.8	42.0	42.2	17	39.6	41.1	41.1	47.5	45.8	40.8	42.0	42.4
2	39.5	39.9	42.1	44.9	40.4	42.0	41.8	42.3	18	39.6	41.2	40.7	46.6	45:2	40.7	41.9	42.4
3	39.5	39.8	42.0	46.3	40.3	41.7	41.8	41.9	19	39.6	41.2	40.4	45.8	44.8	40.9	42.1	42.5
4	39.5	39.8	42.0	46.7	40.2	41.5	41.8	41.9	20	39.6	41.3	40.2	45.2	44.4	41.1	42.2	42.5
5	39.5	39.8	42.0	47.0	40.8	41.2	41.7	41.8	21	39.8	41.4	40.0	44.7	43.9	40.9	42.0	42.3
6	39.5	39.8	41.1	47.2	43.9	41.0	41.5	42.3	22	39.8	41.5	40.1	44.1	43.5	41.2	42.0	42.3
7	39.5	39.8	39.5	47.3	45.4	40.9	41.2	42.2	23	39.8	41.6	41.0	43.5	43.1	41.7	42.2	42.4
8	39.5	39.8	39.3	47.4	45.9	40.8	41.4	41.8	24	39.8	41.8	42.3	42.9	42.7	41.6	42.4	42.4
9	39.4	40.0	39.6	51.8	46.4	40.7	41.6	42.3	25	39.8	42.2	41.8	42.3	42.4	41.7	42.4	42.4
10	39.4	40.8	40.2	56.6	47.2	40.8	41.8	42.4	26	39.9	42.6	42.6	41.8	42.0	41.8	42.6	42.3
11	39.4	41.1	40.5	56.6	48.7	41.1	41.9	42.4	27	39.9	42.7	43.9	41.4	41.8	41.9	42.7	42.4
12	39.4	41.2	40.7	55.1	48.4	40.9	41.9	42.4	28	39.9	42.6	43.7	41.2	41.6	42.1	42.7	42.5
13	39.5	41.2	41.2	53.6	47.7	40.8	42.0	42.3	29	39.8	42.5	43.7	40.9	41.5	42.7	42.5	42.5
14	39.6	41.1	41.4	52.1	48.0	40.6	42.1	42.5	30	39.8	42.4	44.1		41.4	42.3	42.4	42.5
15	39.6	41.0	41.2	50.7	47.4	40.6	42.2	42.2	31		42.3	43.5		41.4		42.4	
16	39.6	41.0	41.2	49.0	46.5	40.8	42.0	42.3									

Crest Stages:								
Date	1-27-60	1-30-60	2- 1-60	2-10-60	3-11-60	3-14-60	5-28-60	7- 4-60
Time	1:00 PM	4:00 AM	3:00 AM	9:00 PM	4:00 PM	2:00 PM	7:00 AM	7:30 PM
Stage	44.1	44.3	43.6	57.1	49.0	48.1	42.8	42.9

E - Estimated NR - No Record

TABLE 261

DAILY MEAN GAGE HEIGHT
SUTTER BYPASS AT LONG BRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr	May	June
1						39.1	40.4	40.6	17				42.6	40.7	39.4	40.5	41.1
2						39.2	40.4	40.6	18				41.5	39.9	39.5	40.5	41.2
3				39.6		39.2	40.4	40.4	19				40.6	39.3	39.7	40.6	41.2
4				40.9		39.1	40.4	40.5	20				39.8		39.8	40.6	41.2
5				41.2		39.1	40.4	40.4	21						39.9	40.6	41.2
6				41.4		39.3	40.4	40.6	22						40.2	40.5	41.1
7				41.6	39.1	39.3	40.3	40.6	23						40.4	40.6	41.2
8				41.7	40.4	39.3	40.4	40.5	24						40.4	40.6	41.1
9				44.1	41.0	39.2	40.4	40.7	25					39.4	40.4	40.6	41.1
10				47.6	41.7	39.3	40.5	40.8	26					39.2	40.5	40.6	41.2
11				47.9	42.9	39.4	40.5	40.8	27					39.2	40.5	40.6	41.2
12				47.0	43.0	39.4	40.5	40.8	28					39.0	40.5	40.6	41.2
13				46.1	42.4	39.4	40.5	40.8	29						40.5	40.6	41.3
14				45.3	42.5	39.3	40.5	40.9	30						40.4	40.6	41.2
15				44.6	42.3	39.3	40.5	40.9	31							40.6	
16				43.8	41.4	39.4	40.5	41.0									

Crest Stages:			
	Date	2-11-60	3-11-60
	Time	1:00 AM	10:00 PM
	Stage	48.1	43.2

E-Estimated NR-No Record
Note: Gage heights below 39.0 are not indicative of flow in channel and have not been listed.

TABLE 262

DAILY MEAN GAGE HEIGHT
WADSWORTH CANAL AT BUTTE HOUSE ROAD

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	50.2	48.8	47.1	43.5	42.3	50.8	52.6	51.0	17	49.7	48.8	NR	42.9	42.6	51.7	51.1	51.0
2	50.3	48.8	47.1E	44.6	42.4	50.5	52.3	50.9	18	49.2	48.8	NR	42.9	42.6	51.7	51.3	50.4
3	50.3	48.8	47.1E	43.6	42.3	50.7	52.3	51.3A	19	49.0	48.8	NR	42.8	42.5	51.5B	51.2	51.9
4	50.4	48.7	47.1	43.6	42.4	50.7	52.4	51.5	20	49.0	48.8	NR	42.7	43.3A	51.5B	51.1	52.2
5	50.2	48.8	NR	45.0	42.5	50.6	52.6	51.5	21	48.9	48.8	NR	42.7	45.1	51.4B	51.2	51.9
6	50.2	48.8	NR	44.1	42.5	50.6	52.6	51.6	22	48.9	48.8	NR	42.6	45.1	NP	51.1	51.6B
7	50.2	48.8	NR	44.3	43.9	51.2	52.7	51.8	23	48.9	48.8	NR	42.6	45.1	51.6B	51.5	51.5B
8	50.2	48.8	NR	45.2	43.3	51.2	52.7	51.6	24	48.8	48.0A	NR	42.6	45.1	52.0	51.9	51.8
9	50.0	48.8	NR	44.2	42.9	51.0	52.7	51.7	25	48.8	47.2	NR	42.5	45.1	52.2	52.2	52.0
10	50.0	48.8	NR	44.6	42.8	51.1	52.6	51.7	26	48.8	47.2	NR	42.5	45.0	51.9	51.9	51.9
11	50.0	48.8	NR	44.8	42.7	51.0	52.5	51.6	27	48.8	47.1	NR	42.5	45.2	52.2	51.7	51.9
12	49.9	48.8	NR	44.0	42.9	50.8	52.8	51.6	28	48.9	47.1	42.8E	42.5	45.3	52.6	51.5	52.0
13	50.2	48.8	NR	43.4	43.1	50.9	52.2A	51.6	29	48.9	47.1	42.7	42.4	48.2A	52.4	51.3	52.1
14	50.1	48.8	NR	43.2	42.8	50.4	51.1	51.4	30	48.9	47.1	42.7		50.7	52.6	51.3	52.2
15	50.0	48.8	NR	43.0	42.7	50.4A	51.4	51.4	31		47.1	42.6		50.6		51.4	
16	50.2	48.8	NR	43.0	42.7	51.6	51.5	51.5									

Crest Stages		(BOARDS OUT)			(BOARDS IN)				
	Date	2- 2-60	2- 5-60	3- 7-60	5- 7-60	5- 9-60	5-12-60	5-13-60	9- 2-60
	Time	0:15 AM	8:30 AM	10:00 AM	12:00 Noon	7:00 AM	12:30 PM	12:30 PM	7:15 AM
	Stage	45.3	45.7	44.6	52.8	52.8	52.9	52.9	52.8

E-Estimated NR-No Record NP-No Flow
A-Board change.
B-Mean gage height for period of flow.

TABLE 263

DAILY MEAN GAGE HEIGHT*
SUTTER BYPASS AT STATE PUMPING PLANT NO. 3

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr	May	June
1	38.6	38.8	38.9	NR	33.0	37.1	38.4	38.5	17	39.0	39.2	NR	36.9	34.8	38.4	38.7	38.4
2	38.6	38.9	38.8	NR	33.0	37.1	38.4	38.4	18	38.9	39.2	NR	36.3	34.0	38.4	38.7	38.5
3	38.6	38.9	38.8	NR	33.0	37.2	38.4	38.4	19	38.8	39.2	NR	34.6	33.4	38.4	38.6	38.5
4	38.8	39.0	38.8	NR	33.0	37.2	38.5	38.6	20	38.8	39.3	NR	33.6	33.2	38.4	38.6	38.6
5	38.8	39.0	38.8	35.4	33.0	37.0	38.6	38.2	21	38.7	39.2	NR	33.0	33.1	38.4	38.5	38.6
6	38.8	39.0	38.8	35.6	33.0	37.0	38.6	38.6	22	38.7	39.2	NR	33.0	34.8	38.3	38.5	38.2
7	38.8	38.9	38.3	35.6	33.8	38.4	38.4	38.6	23	38.7	39.0	NR	33.0	37.4	38.4	38.6	38.2
8	38.8	39.0	37.8	36.1	34.6	38.8	38.4	38.5	24	38.7	38.9	NR	33.0	37.2	38.6	38.8	38.4
9	38.8	39.0	37.8	38.0	35.6	38.5	38.5	38.5	25	38.8	38.9	NR	33.0	37.2	38.7	38.6	38.5
10	38.8	39.2	37.0	44.1	36.4	38.5	38.4	38.5	26	38.8	38.9	NR	33.0	37.2	38.6	38.6	38.5
11	38.8	39.2	36.5	45.0	37.1	38.5	38.2	38.6	27	38.8	38.9	NR	33.0	37.1	38.6	38.6	38.5
12	38.8	39.3	NR	43.8	36.9	38.5	38.8	38.6	28	38.8	38.9	NR	33.0	37.0	38.6	38.5	38.5
13	38.6	39.3	NR	42.9	36.8	38.5	38.8	38.6	29	38.8	38.9	NR	33.0	37.2	38.7	38.4	38.6
14	38.8	39.3	NR	42.2	36.5	38.4	38.8	38.5	30	38.8	38.9	NR		37.1	38.6	38.7	38.6
15	38.8	39.2	NR	41.1	36.0	38.2	38.6	38.5	31		38.9	NR		37.1		38.6	
16	39.0	39.2	NR	39.8	35.9	38.3	38.7	38.4									

Crest Stages:	Date	
	Time	
	Stage	

E-Estimated NR-No Record
* Average of 7:00 AM and 5:00 PM staff gage readings.

TABLE 264

DAILY MEAN GAGE HEIGHT*
SUTTER BYPASS AT STATE PUMPING PLANT NO. 2

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	28.1	28.0	26.2	27.1	26.4	28.2	28.4	28.8	17	27.8	28.9	26.3	33.0	32.0	28.8	29.3	29.4
2	28.0	28.0	26.2	27.8	26.2	28.3	28.6	28.6	18	27.8	29.0	26.2	32.3	31.4	28.9	29.3	29.3
3	27.8	28.0	26.1	28.4	26.0	28.2	29.1	28.4	19	27.7	29.0	26.1	31.9	30.4	29.0	29.2	29.4
4	27.6	28.1	26.1	30.4	26.2	28.2	29.3	28.5	20	27.6	29.2	26.0	31.4	29.4	29.0	29.2	29.6
5	27.6	28.2	26.1	31.1	26.4	28.1	29.4	28.6	21	27.6	29.2	26.0	30.5	28.5	29.2	29.2	29.9
6	27.4	28.2	26.0	31.6	27.0	28.2	29.6	28.8	22	27.6	29.4	26.0	29.2	28.6	29.2	29.3	29.8
7	27.4	28.3	26.2	31.7	28.5	26.2	29.4	29.4	23	27.7	29.5	26.2	28.2	27.6	29.4	29.2	29.6
8	27.5	28.4	26.2	32.2	30.6	27.2	29.3	29.6	24	27.7	28.5	26.6	27.4	27.2	29.6	29.7	29.4
9	27.5	28.4	25.7	36.0	33.7	28.6	29.3	29.6	25	27.8	26.7	26.9	27.0	27.1	29.7	29.5	29.6
10	27.4	28.4	25.9	40.0	34.7	29.7	29.3	29.7	26	28.0	26.4	26.8	26.8	27.1	29.7	29.8	29.8
11	27.6	28.6	26.6	40.8	33.9	30.0	29.2	29.8	27	28.0	26.3	27.0	26.7	27.0	29.7	29.6	29.8
12	27.8	29.0	26.5	39.6	33.3	30.0	29.4	29.8	28	28.2	26.3	27.2	26.6	27.2	29.0	29.3	29.8
13	27.8	29.0	26.3	37.6	32.8	30.0	29.6	29.8	29	28.2	26.3	27.0	26.5	28.0	28.6	28.8	29.8
14	27.8	28.8	26.4	35.9	32.5	29.8	29.6	29.8	30	28.1	26.3	27.2		28.2	28.6	28.4	30.0
15	27.9	28.8	26.6	34.8	32.4	29.2	29.2	29.7	31		26.2	27.0		28.4		28.8	
16	27.9	28.9	26.4	33.8	32.2	28.8	29.2	29.6									

Crest Stages:	Date	
	Time	
	Stage	

E-Estimated NR-No Record
* Average of 7:00 AM and 5:00 PM staff gage readings.

TABLE 265

DAILY MEAN GAGE HEIGHT*
SUTTER BYPASS AT STATE PUMPING PLANT NO. 1

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	28.0	28.2	23.1	24.3	23.7	27.6	28.2	28.6	17	28.0	29.0	23.2	32.0	31.4	28.7	29.2	29.2
2	27.8	28.0	23.0	24.9	23.6	27.6	28.6	28.4	18	27.8	29.0	23.2	31.8	30.8	28.8	29.2	29.3
3	27.6	28.1	23.0	25.8	24.0	27.5	29.0	28.4	19	27.8	29.1	23.2	31.8	29.8	29.0	28.8	29.4
4	27.6	28.1	23.0	29.2	25.7	27.5	29.3	28.4	20	27.6	29.1	23.0	30.9	28.4	29.2	28.9	29.7
5	27.4	28.1	23.0	30.2	26.2	27.5	29.4	28.6	21	27.6	29.2	22.9	29.7	27.8	29.2	29.0	30.0
6	27.2	28.1	23.0	30.8	26.8	27.9	29.6	28.7	22	27.7	29.4	22.9	28.0	28.6	29.3	29.0	29.8
7	27.2	28.2	23.1	31.0	28.0	24.6	29.4	29.2	23	27.8	29.4	23.0	26.4	27.1	29.4	29.0	29.7
8	27.4	28.4	23.1	31.7	30.8	27.2	29.2	29.6	24	27.8	27.8	23.2	25.2	26.7	29.6	29.2	29.4
9	27.6	28.6	23.0	37.2	33.5	28.6	29.3	29.5	25	27.8	24.8	23.8	24.5	26.7	29.6	28.6	29.7
10	27.4	28.6	22.8	39.2	34.4	29.6	29.3	29.6	26	28.0	23.5	24.0	24.2	26.8	29.6	29.3	29.8
11	27.7	28.8	22.9	39.7	33.4	30.0	29.2	29.8	27	28.1	23.2	24.2	24.0	26.8	29.3	29.0	29.9
12	27.9	29.0	23.6	38.6	32.6	30.0	29.2	29.7	28	28.2	23.0	24.4	23.9	27.0	28.4	28.6	29.8
13	27.9	29.0	23.2	37.0	32.0	30.0	29.4	29.7	29	28.2	23.1	24.4	23.8	27.8	28.2	28.1	29.8
14	27.9	28.8	23.2	35.4	31.9	29.7	29.4	29.7	30	28.2	23.1	24.4		28.0	28.2	28.1	30.1
15	27.9	28.8	23.3	34.2	31.8	29.2	28.8	29.6	31		23.1	24.3		27.8		28.6	
16	28.0	28.9	23.4	33.0	31.8	28.9	29.0	29.6									

Crest Stages:	
Date	
Time	
Stage	

E-Estimated NR-No Record

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

TABLE 266

DAILY MEAN GAGE HEIGHT
FEATHER RIVER NEAR OROVILLE

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	June
1	7.6	7.0	7.2	12.0	9.6	19.6	12.0	11.6	17	7.0	7.0	5.4	12.7	15.9	12.7	11.7	10.1
2	7.3	7.0	6.9	19.1	8.9	18.5	12.7	12.0	18	7.1	6.9	7.1	12.7	15.9	12.9	11.5	10.0
3	7.0	7.0	6.8	13.7	9.3	18.2	12.8	12.0	19	7.0	6.6	7.3	11.8	15.6	13.6	11.2	10.0
4	7.1	7.0	6.8	12.0	12.7	17.9	12.7	11.5	20	7.0	6.6	6.6	10.9	16.0	13.5	11.1	9.9
5	7.0	7.0	6.8	12.1	23.3	17.7	12.5	11.0	21	7.0	6.6	7.4	10.5	16.1	13.5	11.3	9.9
6	7.0	7.0	6.9	11.5	25.2	17.7	12.4	11.1	22	7.0	6.6	7.8	10.2	16.4	13.4	11.0	9.8
7	7.0	7.0	7.0	27.4	35.0	18.3	12.8	11.3	23	7.0	6.7	7.5	10.0	16.6	13.3	10.9	9.7
8	7.0	7.0	8.9	55.6	33.0	18.1	13.3	11.1	24	7.0	8.3	7.3	10.1	16.6	13.1	12.2	9.7
9	7.0	7.0	7.7	39.2	26.1	17.8	13.2	10.9	25	7.0	8.8	11.6	9.8	17.3	12.8	11.5	9.6
10	7.0	6.6	8.0	30.0	22.2	17.2	13.2	10.8	26	7.0	6.4	13.6	10.0	17.3	12.5	11.6	9.6
11	7.0	6.5	9.0	23.6	19.8	16.2	13.4	10.6	27	7.0	5.2	12.0	9.4	19.8	14.2	11.8	9.6
12	7.0	6.5	7.5	19.7	20.0	15.5	13.4	10.5	28	6.9	6.2	12.2	9.0	21.1	13.3	12.2	9.5
13	7.0	6.6	6.2	17.1	21.2	14.5	13.3	10.4	29	7.0	7.1	10.2	9.4	19.1	12.6	12.3	9.5
14	7.0	6.6	7.1	15.4	19.5	14.4	12.7	10.0	30	7.0	7.4	9.0		21.1	12.0	11.8	9.5
15	7.2	6.8	6.4	14.3	17.4	14.5	11.9	9.7	31		7.4	8.8		21.7		11.5	
16	6.9	7.0	5.6	13.7	16.2	13.8	11.7	10.2									

Crest Stages							
Date	2- 2-60	2- 8-60	3- 4-60	3- 5-60	3- 7-60	3-28-60	3-30-60
Time	1:45 AM	9:30 AM	7:00 PM	11:00 PM	6:00 PM	3:45 AM	5:00 PM
Stage	21.6	63.8	15.7	29.4	40.9	22.5	23.8

NR – No Record

TABLE 267

DAILY MEAN GAGE HEIGHT
PEATHER RIVER NEAR GRIDLEY

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr	May	June
1	77.0	77.2	77.4	78.2	78.0	80.8	77.5	77.4	17	77.2	77.3	76.8	79.0	79.8	78.2	77.4	76.5
2	77.0	77.2	77.3	80.8	77.9	80.5	77.6	77.4	18	77.2	77.2	77.0	78.9	79.8	78.1	77.4	76.5
3	76.8	77.2	77.2	79.6	77.8	80.2	77.7	77.5	19	77.3	77.1	77.7	78.7	79.7	78.2	77.2	76.4
4	76.8	77.2	77.2	79.0	78.5	80.2	77.7	77.4	20	77.2	77.1	77.2	78.5	79.8	78.2	77.2	76.4
5	76.8	77.2	77.2	78.8	80.6	80.0	77.7	77.2	21	77.2	77.1	77.3	78.3	79.7	78.1	77.2	76.3
6	76.8	77.2	77.4	78.8	83.3	80.0	77.6	77.0	22	77.2	77.1	77.8	78.2	79.7	78.0	77.2	76.3
7	76.8	77.2	77.4	80.4	84.9	80.0	77.6	77.2	23	77.2	77.1	77.6	78.2	79.8	77.9	77.1	76.3
8	76.8	77.2	77.8	94.9	87.4	80.0	77.8	77.1	24	77.2	77.5	77.5	78.1	79.9	77.9	77.5	76.2
9	76.8	77.2	77.9	92.0	84.4	80.0	77.8	77.1	25	77.2	78.2	78.6	78.1	79.9	77.7	77.5	76.2
10	76.8	77.1	77.7	86.8	82.7	79.8	77.9	76.9	26	77.2	77.4	79.4	78.1	80.1	77.6	77.5	76.1
11	76.8	77.1	77.8	84.0	81.6	79.5	77.9	76.9	27	77.2	76.8	79.0	78.0	80.5	78.0	77.6	76.1
12	76.8	77.1	78.0	82.0	81.2	79.3	77.9	76.8	28	77.2	76.7	79.1	77.9	81.3	78.0	77.6	76.0
13	76.8	77.1	77.2	80.8	81.7	79.0	77.9	76.8	29	77.2	77.2	78.5	77.9	80.7	77.8	77.7	76.0
14	76.8	77.1	77.2	80.1	81.2	78.8	77.8	76.7	30	77.2	77.4	78.1		80.8	77.6	77.6	76.0
15	76.9	77.1	77.4	79.6	80.6	78.8	77.6	76.1	31		77.4	78.0		81.6		77.4	
16	77.0	77.2	77.0	79.3	80.1	78.5	77.4	76.5									

Crest Stages:								
	Date	2- 2-60	2- 8-60	3- 6-60	3- 7-60	3-13-60	3-15-60	3-28-60	3-30-60
	Time	8:00 AM	6:30 PM	5:00 AM	11:55 PM	12:30 PM	1:00 AM	9:00 AM	10:00 PM
	Stage	81.2	98.2	84.0	89.2	81.8	81.0	81.6	81.9

E-Estimated NR-No Record

TABLE 268

DAILY MEAN GAGE HEIGHT
PEATHER RIVER AT YUBA CITY

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	40.4	40.6	41.0	42.0	42.6	48.1	42.6	42.5	17	40.6	40.6	40.6	44.9	46.3	44.0	42.5	40.4
2	40.4	40.6	40.9	45.5	42.7	47.2	42.6	42.8	18	40.7	40.6	40.4	44.5	46.1	43.6	42.4	40.3
3	40.3	40.6	40.7	45.5	42.3	46.9	43.0	42.8	19	40.7	40.6	41.2	44.4	46.0	43.6	42.2	40.3
4	40.1	40.6	40.7	44.1	42.8	46.8	42.9	42.8	20	40.7	40.5	41.0	44.0	46.0	43.8	42.0	40.2
5	40.2	40.6	40.7	43.9	46.3	46.6	43.0	42.3	21	40.7	40.5	40.9	43.6	46.0	43.6	42.0	40.1
6	40.2	40.6	40.8	44.6	52.1	46.5	42.7	41.9	22	40.7	40.4	41.5	43.4	46.0	43.5	42.2	40.1
7	40.2	40.6	40.9	45.0	52.5	46.6	42.6	41.8	23	40.7	40.5	41.7	43.2	46.1	43.3	41.9	40.0
8	40.2	40.6	41.0	60.9	57.9	46.9	43.2	41.6	24	40.7	40.7	41.4	43.1	46.3	43.3	42.2	39.9
9	40.2	40.6	42.1	65.8	55.4	46.9	43.5	41.4	25	40.7	42.0	42.2	43.1	46.2	43.0	42.8	39.9
10	40.2	40.6	41.6	59.3	51.5	46.7	43.4	41.2	26	40.6	41.4	44.2	42.9	46.6	42.8	42.5	39.9
11	40.2	40.4	41.9	54.4	49.0	46.4	43.4	41.0	27	40.6	40.5	44.0	42.9	46.8	43.2	42.7	39.9
12	40.2	40.4	42.5	50.2	48.1	46.0	43.5	41.0	28	40.6	40.1	43.8	42.7	48.8	43.9	42.8	39.8
13	40.2	40.4	41.5	47.9	49.8	45.4	43.6	40.9	29	40.6	40.5	43.3	42.4	47.9	43.3	43.0	39.8
14	40.2	40.4	41.0	46.7	49.1	44.9	43.2	40.8	30	40.6	40.9	42.6		47.5	42.9	42.8	39.7
15	40.3	40.4	41.4	45.8	47.9	44.8	42.8	40.5	31		41.0	42.2		49.3		42.6	
16	40.4	40.5	41.0	45.3	46.8	44.4	42.7	40.2									

Crest Stages:								
	Date	2- 9-60	3- 6-60	3- 8-60	3-13-60	3-28-60	3-31-60	4- 3-60	4- 9-60
	Time	2:30 AM	11:30 AM	2:00 PM	5:30 PM	3:30 PM	8:00 AM	5:30 PM	3:00 AM
	Stage	67.8	52.5	58.5	50.2	49.2	49.6	46.9	47.1

E-Estimated NR-No Record

TABLE 269

DAILY MEAN GAGE HEIGHT
YUBA RIVER AT ENGLEBRIGHT DAM

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	NF	NF	NF	NF	27.5	29.0	28.2	28.6	17	NF	NF	NF	28.2	28.6	28.3	28.3	27.4
2	NF	NF	NF	NF	27.5	28.8	28.2	28.7	18	NF	NF	NF	28.1	28.6	28.3	28.2	27.4
3	NF	NF	NF	NF	27.5	28.8	28.2	28.6	19	NF	NF	NF	28.1	28.6	28.5	28.2	27.4
4	NF	NF	NF	NF	27.7	28.9	28.2	28.6	20	NF	NF	NF	27.9	28.6	28.6	28.1	27.4
5	NF	NF	NF	27.8	29.2	28.9	28.2	28.4	21	NF	NF	NF	27.9	28.6	28.5	28.3	27.3
6	NF	NF	NF	28.2	30.0	28.9	28.2	28.2	22	NF	NF	NF	27.8	28.7	28.6	28.1	27.3
7	NF	NF	NF	29.8	31.2	29.0	28.3	28.1	23	NF	NF	NF	27.8	28.7	28.4	28.0	27.2
8	NF	NF	NF	37.5	31.2	29.2	28.6	27.9	24	NF	NF	NF	27.7	28.7	28.3	28.2	27.2
9	NF	NF	NF	32.4	30.0	29.2	28.7	27.8	25	NF	NF	NF	27.7	28.8	28.2	28.1	27.1
10	NF	NF	NF	30.4	29.3	29.1	28.6	27.7	26	NF	NF	NF	27.7	28.8	28.1	28.1	27.1
11	NF	NF	NF	29.5	29.0	29.0	28.6	27.6	27	NF	NF	NF	27.6	29.1	28.3	28.3	27.0
12	NF	NF	NF	29.0	29.1	28.9	28.7	27.6	28	NF	NF	NF	27.6	29.6	28.4	28.4	NF
13	NF	NF	NF	28.7	29.8	28.5	28.6	27.6	29	NF	NF	NF	27.6	29.1	28.2	28.3	NF
14	NF	NF	NF	28.5	29.3	28.5	28.3	27.6	30	NF	NF	NF		29.2	28.2	28.3	NF
15	NF	NF	NF	28.4	29.0	28.6	28.3	27.5	31		NF	NF		29.4		28.4	
16	NF	NF	NF	28.3	28.8	28.4	28.4	27.5									

Crest Stages:					
Date	2- 8-60	3- 5-60	3- 7-60	3-13-60	3-30-60
Time	11:30 AM	11:55 PM	8:30 PM	8:00 AM	11:00 PM
Stage	39.7	30.5	32.8	29.9	29.8

NR – No Record
NF – No Flow

TABLE 270

DAILY MEAN GAGE HEIGHT
YUBA RIVER NEAR MARYSVILLE

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	59.5	59.6	NR	61.4	63.2	64.4	63.4	63.8	17	60.4	NR	61.3	63.9	64.3	63.6	63.6	NR
2	59.5	59.8	NR	62.4	63.1	64.6	63.4	64.1	18	60.6	NR	61.2	63.8	64.3	63.5	63.5	NR
3	59.5	59.8	NR	61.6	63.1	64.6	63.5	63.9	19	60.6	NR	61.2	63.8	64.2	63.6	63.4	NR
4	59.5	59.7	NR	61.6	63.1	64.6	63.5	63.9	20	60.6	NR	61.2	63.7	64.2	63.8	63.3	NR
5	59.5	59.7	NR	63.1	65.4	64.6	63.6	63.6	21	60.8	NR	61.2	63.6	64.2	63.7	63.5	NR
6	59.5	59.6	NR	62.9	66.9	64.6	63.4	63.4	22	60.9	NR	61.3	63.5	64.3	63.8	63.6	NR
7	59.5	59.6	NR	65.3	68.1	64.7	63.4	63.3	23	60.9	NR	61.4	63.4	64.3	63.7	63.2	NR
8	59.5	59.6	NR	80.7	69.0	64.7	63.9	63.1	24	61.0	NR	61.4	63.4	64.4	63.6	63.4	NR
9	59.5	59.7	NR	73.3	66.7	64.6	64.0	62.9	25	60.9	NR	62.0	63.4	64.4	63.4	63.4	NR
10	59.5	59.7	NR	67.7	65.5	64.8	64.0	62.8	26	NR	NR	62.5	63.3	64.4	63.5	63.4	NR
11	59.5	NR	NR	66.1	65.0	64.8	64.0	62.7	27	NR	NR	61.7	63.3	64.8	63.8	63.5	NR
12	59.5	NR	NR	65.3	65.2	64.5	64.1	62.6	28	NR	NR	61.6	63.2	65.6	63.8	63.6	NR
13	59.5	NR	61.3	64.8	66.2	64.0	64.1	62.6	29	NR	NR	61.5	63.2	65.0	63.5	63.5	NR
14	59.6	NR	61.3	64.5	66.1	63.8	63.7	62.6	30	NR	NR	61.4		65.1	63.5	63.5	NR
15	59.6	NR	61.3	64.2	65.0	63.8	63.6	62.6	31		NR	61.4		65.5		63.6	
16	59.5	NR	61.3	64.0	64.6	63.6	63.8	62.5									

Crest Stages:						
Date	2- 2-60	2- 8-60	3- 5-60	3- 7-60	3-13-60	3-31-60
Time	3:00 AM	3:00 PM	11:00 PM	11:00 PM	10:00 AM	1:00 AM
Stage	62.6	84.6	67.6	71.0	66.4	66.0

NR – No Record

TABLE 271

DAILY MEAN GAGE HEIGHT
FEATHER RIVER BELOW SHANGHAI BEND

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	34.2	34.5	35.0	36.5	37.0	44.0	37.9	NR	17	34.5	34.5	34.9	39.8	41.6	40.0	37.3	34.7
2	34.2	34.5	34.9	39.2	36.9	42.9	37.4E	37.8E	18	34.7	34.5	34.8	39.3	41.4	39.7	37.2	34.6
3	34.2	34.5	34.8	40.1	36.6	42.4	37.7E	37.7	19	34.7	34.5	35.2	39.2	41.3	39.4	36.9	34.5
4	34.0	34.5	34.8	38.5	37.0	42.2	37.6E	37.7	20	34.7	34.4	35.3	38.8	41.2	39.3	36.7	34.4
5	34.0	34.5	34.7	38.2	40.1E	42.1	37.7E	37.2	21	34.7	34.4	35.1	38.3	41.3	39.2	36.7	34.3
6	34.0	34.5	34.7	39.3	47.1E	41.9	37.4E	36.7	22	34.8	34.4	35.6	38.0	41.3	39.2	37.0	34.2
7	34.0	34.5	34.8	39.3	47.1E	42.0	37.3	36.5	23	34.8	34.4	35.9	37.8	41.4	39.1	36.5	34.1
8	34.0	34.5	35.0	56.4	53.1E	42.4	38.0	36.2	24	34.8	34.6	35.6	37.7	41.5	38.9	36.9	34.0
9	34.1	34.5	36.0	61.4	51.5E	42.5	38.4	36.0	25	34.8	35.7	36.3	37.7	41.4E	38.8	37.4	33.9
10	34.1	34.5	35.8	55.7	47.7	42.3	38.3	35.7	26	34.6	35.5	38.1	37.5	41.9E	38.6	37.1	33.9
11	34.0	34.4	36.0	51.2	46.1	42.0	38.3	35.4	27	34.6	34.7	38.5	37.5	42.0	38.4	37.3	33.9
12	34.1	34.4	36.5	46.0	43.7	41.7	38.4	35.3	28	34.5	34.3	38.0	37.2	44.0	38.8	37.5	33.8
13	34.1	34.4	35.7	43.6	45.5	41.3	38.6	35.3	29	34.5	34.6	37.7	37.0	43.7	38.6	37.6	33.7
14	34.1	34.3	35.3	42.0	45.0	40.7	38.0	35.2	30	34.5	35.0	37.0		42.8	38.2	37.5	33.6
15	34.2	34.4	35.6	40.9	43.6	40.4	37.6	34.9	31		35.1	36.6		44.7		37.3	
16	34.3	34.4	35.2	40.3	42.3	40.3	37.5	34.5									

Crest Stages:								
	Date	2- 9-60	3- 8-60	3-13-60	3-28-60	3-31-60	4- 3-60	4- 4-60	4- 9-60
	Time	2:30 AM	3:30 PM	8:30 PM	9:00 PM	12:30 PM	10:00 PM	9:00 PM	6:00 AM
	Stage	63.1	53.9	46.1	44.7	45.3	42.4	42.3	42.6

E - Estimated NR - No Record

TABLE 272

DAILY MEAN GAGE HEIGHT
BEAR RIVER NEAR WHEATLAND

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	1.2	1.0	1.0	1.6	1.1	2.5	1.6	1.1	17	1.0	1.0	1.3	2.1	3.0	1.7	1.2	NR
2	1.0	1.0	1.0	3.2	0.8	2.3	1.7	1.1	18	1.0	1.0	1.3	2.0	2.9	1.6	1.2	NR
3	1.0	1.0	1.1	2.4	0.7	2.2	1.7	1.0	19	1.0	1.0	1.3	2.0	2.9	1.7	1.2	NR
4	1.1	1.0	1.1	2.2	0.7	2.1	1.7	0.8	20	1.0	1.0	1.3	1.8	2.8	1.8	1.2	NR
5	1.1	1.0	1.1	2.7	0.8	2.1	1.7	0.8	21	1.0	1.0	1.3	1.7	2.8	1.3	1.2	NR
6	1.0	1.1	1.1	2.4	3.2	2.0	1.6	0.8	22	1.1	1.0	1.6	1.7	2.7	1.0	1.2	NR
7	1.0	1.1	1.1	3.6	4.1	2.0	1.4	0.7	23	1.1	1.0	1.6	1.6	2.6	1.0	1.2	NR
8	1.0	1.1	1.3	13.8	4.9	2.0	1.3	0.7	24	1.0	1.2	1.5	1.6	2.4	1.3	1.8	0.5
9	1.0	1.0	1.9	7.4	3.4	1.9	1.0	0.8	25	1.0	1.8	2.5	1.6	2.2	1.4	1.9	0.5
10	1.0	1.0	1.7	5.6	3.0	1.9	0.9	0.6	26	1.0	1.4	3.4	1.6	2.1	1.5	1.7	0.5
11	1.0	1.1	1.6	3.8	2.8	2.0	1.2	0.6	27	1.0	1.2	3.0	1.5	2.1	2.3	1.6	0.4
12	1.0	1.1	2.3	3.1	2.8	2.0	1.3	0.6	28	1.1	1.2	2.3	1.5	2.3	NR	1.5	0.4
13	1.0	1.1	1.6	2.9	3.8	2.0	1.3	0.6	29	1.0	1.2	2.0	1.3	2.3	NR	1.4	0.4
14	1.0	1.2	1.5	2.7	3.2	2.0	1.3	NR	30	1.0	1.1	1.7		2.1	NR	1.3	0.4
15	1.1	1.2	1.5	2.4	3.3	2.0	1.4	NR	31		1.1	1.6		1.7		1.2	
16	1.1	1.1	1.4	2.2	3.1	1.9	1.3	NR									

Crest Stages:								
	Date	1-12-60	1-26-60	2- 2-60	2- 5-60	2- 8-60	2-10-60	3- 8-60	3-13-60
	Time	4:00 AM	11:00 AM	1:30 AM	1:30 PM	3:30 PM	7:00 AM	1:00 AM	9:30 AM
	Stage	3.0	4.2	3.6	3.2	16.8	6.3	6.0	4.1

NR - No Record

TABLE 273

DAILY MEAN GAGE HEIGHT
DRY CREEK NEAR WHEATLAND

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	1.4	NF	3.0	3.6	3.3	3.5	3.4	3.2	17	NF	NF	3.0	3.6	NR	3.2	3.2	NF
2	3.0	NF	3.0	4.2	NR	3.4	3.4	3.1	18	3.0	NF	3.2	3.6	NR	3.2	3.2	3.0
3	3.1	NF	3.0	3.7	NR	3.4	3.4	3.0	19	3.0	NF	3.2	3.6	NR	3.2	3.1	NF
4	3.1	NF	3.0	3.4	NR	3.4	3.4	1.6	20	3.0	NF	3.1	3.5	NR	3.2	3.1	NF
5	3.0	NF	3.0	4.7	NR	3.3	3.4	NF	21	2.0	NF	3.1	3.5	NR	3.2	3.1	NF
6	3.0	NF	3.0	4.1	NR	3.3	3.3	NF	22	NF	NF	3.1	3.4	NR	3.2	3.1	NF
7	NF	NF	3.0	4.8	NR	3.3	3.3	NF	23	NF	1.4	3.3	3.4	NR	3.3	3.1	NF
8	NF	NF	3.1	8.7	NR	3.3	3.3	NF	24	NF	3.1	3.3	3.4	NR	3.4	3.3	NF
9	NF	NF	3.2	5.2	NR	3.3	3.3	NF	25	NF	3.2	3.9	3.4	3.4	3.4	3.4	NF
10	NF	NF	3.3	5.4	NR	3.2	3.2	NF	26	NF	3.2	4.4	3.4	3.4	3.3	3.3	NF
11	NF	NF	3.3	4.5	NR	3.3	3.2	NF	27	NF	3.1	3.9	3.3	3.4	3.4	3.3	NF
12	NF	NF	3.7	4.1	NR	3.3	3.2	NF	28	NF	3.1	3.6	3.3	3.5	3.5	3.2	NF
13	2.2	NF	3.4	4.0	NR	3.3	3.2	NF	29	NF	3.0	3.5	3.3	3.4	3.4	3.2	NF
14	3.0	NF	3.3	3.8	NR	3.3	3.2	NF	30	NF	3.0	3.4		3.4	3.3	3.2	NF
15	3.0	NF	3.4	3.7	NR	3.3	3.2	NF	31		3.0	3.3		3.6		3.2	
16	1.6	NF	3.4	3.7	NR	3.2	3.2	NF									

Crest Stages:					
Date	1-26-60	2- 2-60	2- 5-60	2- 8-60	2-10-60
Time	12:45 PM	5:00 AM	6:45 AM	1:15 PM	11:00 AM
Stage	4.7	4.6	5.6	10.4	6.0

NR — No Record

TABLE 274

DAILY MEAN GAGE HEIGHT
FEATHER RIVER AT NICOLAUS

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	22.0	22.3	22.7	24.1	24.8	32.4	25.0	24.9	17	22.1	22.2	22.7	29.2	30.4	26.6	24.9	22.3
2	22.0	22.3	22.6	26.4	24.8	31.2	24.9	25.3	18	22.3	22.2	22.5	28.0	29.9	26.0	24.7	22.3
3	22.0	22.3	22.5	28.8	24.5	30.5	25.2	25.4	19	22.4	22.2	22.7	27.6	29.7	25.9	24.6	22.3
4	21.8	22.3	22.4	27.5	24.6	30.2	25.3	25.3	20	22.4	22.2	23.1	27.0	29.5	26.4	24.3	22.3
5	21.8	22.2	22.3	27.1	26.9	30.0	25.3	24.8	21	22.4	22.1	22.7	26.4	29.5	26.1	24.1	22.1
6	21.8	22.2	22.2	28.0	34.3	29.9	25.1	24.4	22	22.5	22.1	23.0	26.1	29.4	25.9	24.6	22.0
7	21.8	22.2	22.4	27.6	35.9	29.9	24.9	24.0	23	22.5	22.2	23.6	25.8	29.6	25.8	24.1	21.9
8	21.8	22.2	22.4	41.2	39.3	30.3	25.2	23.9	24	22.5	22.3	23.4	25.6	29.6	25.6	24.3	21.8
9	21.8	22.3	23.3	45.6	39.8	30.4	26.0	23.6	25	22.5	22.7	23.8	25.5	29.5	25.4	25.1	21 7
10	21.8	22.2	23.6	43.0	37.5	30.1	25.9	23.4	26	22.4	23.5	25.9	25.4	29.8	25.0	24.9	21.7
11	21.8	22.2	23.6	40.6	35.3	29.8	25.9	23.1	27	22.3	22.6	27.0	25.3	30.0	25.1	24.9	21.6
12	21.8	22.0	24.2	38.1	33.7	29.3	26.0	23.0	28	22.3	22.0	26.0	25.0	31.8	26.6	25.2	21.6
13	21.8	22.1	23.9	36.0	34.1	28.5	26.2	23.0	29	22.2	22.0	25.7	24.8	32.2	26.0	25.3	21.6
14	21.9	22.0	23.1	34.4	34.4	27.7	25.9	22.8	30	22.2	22.5	24.8		30.9	25.4	25.2	21.5
15	21.9	22.0	23.1	32.8	33.0	27.5	25.2	22.7	31		22.6	24.2		32.5		25.0	
16	22.0	22.1	23.2	30.9	31.5	27.2	25.1	22.3									

Crest Stages:						
Date	1-27-60	2- 3-60	2- 9-60	3- 9-60	3-14-60	4- 9-60
Time	6:00 AM	4:00 AM	7:00 AM	0:30 AM	0:30 AM	7:00 AM
Stage	27.2	29.2	46.1	40.5	34.9	30.5

NR — No Record

TABLE 275

DAILY MEAN GAGE HEIGHT
NATOMAS CROSS CANAL AT HEAD

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1				NR	20.0	22.7	19.1	18.9E	17				26.1	25.0	18.3	NR	NR
2				NR	19.9	22.2	19.0	18.5	18				24.0	23.7	18.1	NR	NR
3				24.8	19.9	21.5	19.2	18.2	19				22.7	22.8	18.2	NR	NR
4				24.8	20.0	21.0	19.1	NR	20				21.7	22.1	18.1	18.7	NR
5				24.9	20.1	20.6	19.2	NR	21				21.0	21.7	18.1	18.6	NR
6				25.9	22.7	20.2	19.3	NR	22				20.8	21.2	NR	18.7	NR
7				24.7	26.4	20.1	19.0	NR	23				20.5	21.0	NR	18.7	NR
8				28.1	29.8	20.2	18.9	NR	24				20.4	20.8	NR	19.5	NR
9				35.8	33.0	20.2	19.0	NR	25				20.3	20.7	18.8E	20.7	NR
10				35.6	33.2	19.8	19.1	NR	26				20.2	20.8	18.8	20.8	NR
11				35.2	32.1	19.6	18.9	NR	27				20.2	20.8	18.5	20.2	NR
12				34.4	30.3	19.9	18.7	NR	28				20.1	NR	20.0	19.9	NR
13				33.4	29.0	19.5	18.6	NR	29			22.2	20.0	NR	20.0	19.6	NR
14				32.4	28.8	19.2	NR	NR	30			21.5		21.7	19.3	19.2	NR
15				30.8	28.2	18.8	NR	NR	31			21.0		22.0		18.9	
16				28.5	26.7	18.7	NR	NR									

Crest Stages:								
	Date	2- 2-60	2- 6-60	2- 9-60	2- 9-60	3-10-60	3-14-60	3-29-60	4- 1-60
	Time	7:30 PM	2:30 AM	10:30 AM	2:30 PM	0:15 AM	11:00 AM	10:00 AM(E)	12:00 Noon
	Stage	25.5	26.9	36.1	36.1	33.4	28.9	22.4	22.8

NR – No Record E – Estimated

TABLE 276

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT VERONA

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	11.7	11.5	12.2	16.5	15.3	22.1	16.5	14.8	17	11.4	11.3	13.2	25.6	24.5	14.0	15.3	12.1
2	11.8	11.5	12.0	17.4	15.1	21.6	15.8	14.6	18	11.6	11.4	12.8	23.3	23.2	13.6	15.2	12.0
3	11.9	11.5	11.9	22.8	14.8	20.9	15.7	14.4	19	11.7	11.5	12.6	22.0	22.1	13.4	15.0	11.9
4	11.8	11.5	11.8	24.0	14.6	20.3	15.8	14.3	20	11.7	11.5	12.8	20.7	21.4	13.4	14.7	11.9
5	11.7	11.4	11.8	23.6	15.5	19.8	15.8	14.3	21	11.6	11.6	12.7	19.3	21.0	13.5	14.5	12.0
6	11.7	11.2	11.7	23.8	21.2	19.4	15.8	13.9	22	11.6	11.6	12.8	18.4	20.6	13.3	14.7	12.0
7	11.5	11.2	11.9	23.3	25.8	19.0	15.4	13.3	23	11.6	11.6	13.7	17.6	20.4	13.3	14.7	11.8
8	11.3	11.2	12.0	27.8	29.3	18.9	15.3	13.2	24	11.6	11.9	15.0	17.0	20.2	13.2	15.0	11.8
9	11.3	11.3	12.4	36.0	32.5	18.8	15.7	12.9	25	11.6	12.3	15.4	16.6	20.0	13.6	16.0	11.9
10	11.3	11.3	13.1	35.1	32.7	18.6	15.9	12.7	26	11.6	13.0	16.5	16.3	19.9	14.1	16.6	11.9
11	11.3	11.2	13.3	34.8	31.7	18.2	15.9	12.6	27	11.5	12.7	18.4	16.0	20.0	14.8	16.6	12.0
12	11.3	11.2	13.7	34.0	29.8	17.6	16.0	12.6	28	11.5	12.2	18.3	15.8	20.8	16.5	16.6	11.9
13	11.4	11.2	14.1	33.0	28.5	16.7	16.2	12.7	29	11.5	11.9	17.7	15.5	21.8	17.2	16.6	11.9
14	11.3	11.2	13.8	31.9	28.4	15.6	16.2	12.5	30	11.5	12.0	17.3		21.2	17.2	16.3	12.1
15	11.3	11.3	13.4	30.4	27.7	15.0	15.8	12.4	31		12.2	16.8		21.4		15.5	
16	11.3	11.3	13.4	28.0	26.3	14.5	15.5	12.2									

Crest Stages:					
	Date	1-27-60	2- 4-60	2- 9-60	3-10-60
	Time	7:00 PM	6:30 AM	6:00 PM	1:00 AM
	Stage	18.7	24.1	35.4	33.0

NR – No Record

TABLE 277

DAILY GAGE HEIGHT*
SACRAMENTO RIVER AT PRITCHARD LAKE

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec	Jan	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1						NR	15.5	13.8	17						13.0	14.4	11.3
2						NR	14.8	13.6	18						12.7	14.2	11.3
3						NR	14.7	13.5	19						12.5	14.0	11.1
4						NR	14.7	13.4	20						12.4	13.7	11.1
5						NR	14.7	13.4	21						12.4	13.7	11.1
6	NO	NO	NO	NO	NO	NR	14.7	13.3	22	NO	NO	NO	NO	NO	12.4	13.8	11.0
7						NR	14.5	12.5	23						12.4	13.8	11.0
8	RECORD	RECORD	RECORD	RECORD	RECORD	NR	14.2	12.5	24	RECORD	RECORD	RECORD	RECORD	RECORD	12.2	13.9	11.0
9						NR	14.5	12.4	25						12.3	14.9	11.0
10						NR	14.8	11.8	26						13.0	15.5	11.0
11						17.5	14.9	11.7	27						13.5	15.6	11.0
12						17.5	15.0	11.7	28						15.2	15.6	11.0
13						16.0	15.0	11.7	29						16.0	15.6	11.0
14						14.0	15.2	11.6	30						16.3	15.6	11.0
15						14.0	14.7	11.5	31							15.3	
16						13.5	14.5	11.3									

Crest Stages:		
	Date	
	Time	
	Stage	

NR – No Record
* Individual daily staff gage readings.

TABLE 278

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER OPPOSITE SACRAMENTO WEIR

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1									17								
2									18								
3									19								
4									20								
5									21								
6									22								
7									23								
8									24								
9				26.1A					25								
10				27.0					26								
11				26.7					27								
12				26.1					28								
13				25.5A					29								
14									30								
15									31								
16																	

Crest Stages.		
	Date	2-10-60
	Time	7:30 AM
	Stage	27.0

E - Estimated NR - No Record
A-Mean gage height for period of flow.
Note: Tabulation of gage height left blank below crest of weir - 25.0 feet.

TABLE 279

DAILY GAGE HEIGHT*
SACRAMENTO RIVER AT SECOND BANNON SLOUGH

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	6.6	6.5	6.6	9.0	9.0	13.7	9.7	8.5A	17	6.4	6.4	6.8	17.5	17.0	8.3	9.0	7.0
2	6.6	6.6	6.4	9.8	8.5	13.6	9.4	9.0	18	6.2	6.4A	6.8	15.4	15.8	7.9	9.0	7.1
3	6.8	6.6	6.6	13.0	8.4	13.1	9.4	9.2	19	6.2	6.2A	6.6	14.2	14.7	7.8	8.9	7.2
4	6.6	7.0	6.6	14.4	9.4	12.7	9.2	9.4	20	6.1	6.4	6.4	13.0	14.2	8.0	8.8	7.2
5	6.6	6.6	6.5	14.6	9.4	12.5	9.2	8.6	21	6.2	6.4	6.8	11.8	13.8	8.1	8.8	7.2
6	5.9	6.2	6.6	14.4	10.6	12.0	9.2	8.6	22	6.2	6.4	6.9	11.2	13.6	8.2	8.5	7.6
7	6.7	6.4	6.7	14.4	15.5	12.0	9.2	8.4	23	6.4	6.3	7.2	10.8	13.2	8.2	8.7	7.6
8	6.7	7.0	6.8	16.6	19.2	12.0	9.4	8.5	24	6.6	6.4	7.7	10.3	12.9	8.2	8.6	7.6
9	7.0	6.8	7.0	24.5	22.8	12.0A	9.6	8.2	25	6.6	7.4	9.2	10.3	12.8	8.4	8.7	8.1
10	6.9	6.7	7.6	26.0	23.8	12.0	9.6	7.9	26	6.8	7.2	9.6	10.2	12.6	8.6	9.0	7.6
11	6.8	6.4	8.3	25.8	23.0	11.8	9.6	7.2	27	6.8	7.0	10.0	9.9	12.9	8.8	9.2	7.4
12	6.7	6.8	8.7	25.2	21.8	11.2	9.6	7.1	28	6.5	7.0	10.5	9.6	13.6	9.9	9.4	7.3
13	7.0	6.8	7.6	24.2	20.4	10.4	9.4	7.0	29	6.3	6.7	10.0	9.3	13.6	9.8	9.8	7.2
14	7.0	6.8	7.9	23.1	20.0	9.6	9.3	7.0	30	6.3	6.3	9.5		13.6	9.6	9.4	7.0
15	6.8	6.6	7.3	22.0	19.3	9.1	9.2	7.0	31		6.1	9.4		13.3		9.3	
16	6.4	6.5	7.1	20.0	18.0	8.6	9.0	7.1									

Crest Stages:	
Date	
Time	
Stage	

NR — No Record
* Average of two daily staff gage readings.
A Individual daily staff gage readings.

TABLE 280

DAILY MEAN GAGE HEIGHT
AMERICAN RIVER AT FAIR OAKS

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	0.7	0.7	0.8	0.8	1.7	3.2	2.2	1.7	17	0.7	0.8	0.8	2.5	3.9	2.9	2.2	2.4
2	0.7	0.7	0.8	0.8	1.7	3.2	2.2	3.0	18	1.1	0.8	0.8	2.5	4.0	2.7	2.2	2.5
3	0.7	0.7	0.8	0.8	1.7	3.2	2.2	3.6	19	1.3	0.8	0.8	2.6	3.9	2.5	2.2	2.5
4	0.7	0.8	0.8	0.8	1.7	3.2	2.2	3.7	20	1.3	0.8	0.8	2.5	3.9	2.5	2.2	2.7
5	0.7	0.8	0.8	0.8	1.7	3.2	2.2	3.6	21	1.4	0.8	0.8	2.5	3.9	2.5	1.7	3.1
6	0.7	0.8	0.8	0.8	1.7	3.2	2.2	3.1	22	0.8	0.8	0.8	2.5	3.2	2.5	1.7	3.1
7	0.7	0.8	0.8	0.8	1.8	3.2	2.1	2.5	23	0.8	0.7	0.8	2.5	3.3	2.5	1.8	3.1
8	0.7	0.8	0.8	2.3	3.0	3.2	2.1	2.4	24	0.8	0.8	0.7	2.5	3.2	2.5	1.7	3.2
9	0.7	0.8	0.8	3.9	3.8	3.1	2.2	2.1	25	0.8	0.8	0.9	2.5	3.2	2.5	1.7	3.1
10	0.7	0.8	0.8	3.9	3.9	3.1	2.1	1.7	26	0.8	0.8	1.1	2.5	3.2	2.5	1.7	3.1
11	0.7	0.8	0.8	3.9	3.9	3.2	2.1	1.7	27	0.8	0.8	1.0	2.6	3.2	2.5	1.7	3.1
12	0.7	0.8	0.8	3.9	3.9	3.1	2.2	1.7	28	0.8	0.8	0.8	2.6	3.2	2.5	1.7	3.1
13	0.7	0.8	0.8	3.8	3.9	3.2	2.2	1.7	29	0.8	0.7	0.8	2.6	3.1	2.5	1.7	3.1
14	0.7	0.8	0.8	3.8	3.9	3.2	2.2	1.9	30	0.7	0.7	0.8		3.2	2.5	1.7	3.1
15	0.7	0.8	0.8	3.5	3.9	2.9	2.2	2.0	31		0.7	0.8		3.2		1.7	
16	0.7	0.8	0.8	3.1	3.9	2.9	2.2	2.2									

Crest Stages:			
Date	2- 8-60	3-16-60	6- 3-60
Time	5:30 PM	11:30 PM	4:00 PM
Stage	4.0	4.0	3.7

NR — No Record

TABLE 281

DAILY MEAN GAGE HEIGHT
AMERICAN RIVER AT SACRAMENTO

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	17.2	17.2	17.2	17.2	18.2	19.4	18.5	18.0	17	17.2	17.2	17.1	18.9	20.3	19.1	18.4	18.6
2	17.2	17.2	17.2	17.2	18.0	19.4	18.5	18.8	18	17.3	17.2	17.1	18.8	20.2	19.0	18.4	18.8
3	17.2	17.2	17.2	17.2	18.0	19.4	18.4	19.7	19	17.6	17.2	17.2	18.8	20.2	18.7	18.4	18.8
4	17.2	17.2	17.2	17.1	18.0	19.4	18.4	19.9	20	17.6	17.2	17.1	18.8	20.2	18.7	18.4	18.9
5	17.2	17.2	17.2	17.2	18.1	19.4	18.4	19.8	21	17.8	17.2	17.1	18.8	20.2	18.7	18.1	19.3
6	17.2	17.2	17.2	17.2	18.1	19.4	18.4	19.4	22	17.3	17.2	17.1	18.8	19.6	18.7	18.0	19.3
7	17.2	17.2	17.2	17.2	18.1	19.4	18.4	18.9	23	17.2	17.2	17.1	18.8	19.5	18.7	18.0	19.4
8	17.2	17.2	17.2	18.0E	19.1	19.4	18.4	18.7	24	17.2	17.2	17.2	18.7	19.5	18.7	18.0	19.4
9	17.2	17.2	17.2	23.8E	22.3	19.4	18.4	18.4	25	17.2	17.2	17.2	18.7	19.5	18.7	18.0	19.3
10	17.2	17.2	17.2	25.3	23.3	19.4	18.4	18.1	26	17.2	17.2	17.5	18.8	19.4	18.7	18.0	19.3
11	17.2	17.2	17.2	25.1	22.8	19.4	18.4	18.0	27	17.2	17.2	17.4	18.8	19.4	18.7	18.0	19.3
12	17.2	17.2	17.2	24.6	21.8	19.4	18.4	18.0	28	17.2	17.2	17.2	18.8	19.5	18.7	18.0	19.3
13	17.2	17.2	17.1	23.8	21.0	19.4	18.4	18.0	29	17.2	17.2	17.1	18.8	19.5	18.8	18.0	19.3
14	17.2	17.2	17.1	23.0	20.8	19.4	18.4	18.2	30	17.2	17.1	17.2		19.5	18.8	18.0	19.3
15	17.2	17.2	17.1	22.0	20.7	19.2	18.4	18.2	31		17.1	17.2		19.4		18.0	
16	17.2	17.2	17.1	20.1	20.4	19.1	18.4	18.4									

Crest Stages:			
	Date	2-10-60	3-10-60
	Time	7:00 AM	9:00 AM
	Stage	25.3	23.3

E - Estimated NR - No Record

TABLE 282

DAILY MEAN GAGE HEIGHT
SACRAMENTO RIVER AT SACRAMENTO

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.0	2.8	3.0	6.0	5.2	9.9	6.0	4.5	17	2.7	2.8	3.2	13.4	13.0	4.6	5.1	3.8
2	3.2	2.9	2.8	6.0	4.8	9.7	5.6	4.4	18	2.8	2.8	2.9	11.4	11.7	4.5	4.8	3.6
3	3.3	2.9	2.5	8.5	4.6	9.2	5.4	5.0	19	3.0	2.7	2.8	10.1	10.7	4.1	4.5	3.4
4	3.0	2.8	2.4	10.0	4.4	8.8	5.3	5.6	20	2.8	2.7	3.0	9.0	10.0	4.0	4.7	3.2
5	2.8	2.5	2.5	10.1	4.7	8.5	5.2	5.7	21	2.7	2.7	3.4	8.2	9.8	4.2	4.5	3.5
6	2.6	2.4	2.4	10.2	7.4	8.2	5.2	5.3	22	2.4	2.6	3.3	7.4	9.4	4.2	4.4	3.7
7	2.7	2.5	2.6	10.0	11.2	8.0	5.1	4.8	23	2.2	2.7	3.4	6.8	9.0	4.1	4.6	3.8
8	2.6	2.6	3.0	11.8	14.2	7.9	5.0	4.5	24	2.3	3.0	4.0	6.4	8.9	4.0	4.8	4.2
9	2.6	2.7	3.0	19.5	18.0	7.9	5.2	4.3	25	2.5	3.4	4.9	6.2	8.7	4.0	5.1	4.3
10	2.6	2.7	3.5	21.3	19.4	7.9	5.4	4.2	26	2.6	3.2	5.2	6.2	8.6	4.5	5.6	4.2
11	2.7	2.6	4.0	21.2	18.9	7.7	5.6	3.8	27	2.6	3.2	6.2	6.0	8.8	5.1	5.7	4.0
12	2.8	2.6	4.0	20.8	17.6	7.2	5.6	3.7	28	2.6	3.1	6.4	5.7	9.1	5.9	5.7	4.0
13	2.9	2.6	3.9	20.0	16.2	6.7	5.6	3.7	29	2.7	3.2	6.0	5.5	9.7	6.3	5.8	3.7
14	3.0	2.2	4.0	19.1	15.8	5.9	5.7	3.6	30	2.8	3.3	5.8		9.6	6.5	5.6	3.6
15	2.9	2.4	3.6	17.9	15.4	5.3	5.6	3.5	31		3.3	5.6		9.4		5.2	
16	2.8	2.6	3.4	15.8	14.4	4.9	5.3	3.4									

Crest Stages:				
	Date	2-10-60	3-10-60	3-29-60
	Time	6:00 PM	1:00 PM	11:00 AM
	Stage	21.4	19.4	9.9

NR - No Record

TABLE 283

DAILY GAGE HEIGHT*
SCOTT CREEK AT UPPER LAKE

In feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				NR	5.65	5.95	7.55	7.40	7.05	5.95	4.65	1.50
2				NR	7.40	6.00	7.60	7.50	7.00	5.90	4.65	1.40
3				NR	6.90	6.05	7.60	7.50	7.00	5.85	4.55	1.40
4				NR	6.55	7.65	7.60	7.45	6.95	5.80	4.45	1.45
5				NR	7.00	9.15	7.60	7.45	6.90	5.80	4.40	1.45
6				NR	6.60	9.00	7.60	7.45	6.90	5.75	4.35	1.45
7				1.25	6.90	10.45	7.65	7.40	6.85	5.70	4.25	1.50
8				1.30	12.75	9.90	7.60	7.40	6.85	5.70	4.05	1.50
9				1.35	13.35	8.70	7.55	7.40	6.80	5.60	3.80	1.55
10				1.40	12.10	8.10	7.60	7.40	6.75	5.60	3.50	1.55
11				1.55	10.35	7.75	7.55	7.35	6.70	5.55	3.25	1.60
12			N	1.90	8.25	7.75	7.55	7.25	6.65	5.45	3.15	1.60
13		NR	O	1.85	7.50	8.00	7.60	7.30	6.65	5.40	3.05	1.60
14		NR		1.85	7.05	7.85	7.45	7.25	6.60	5.40	2.90	1.65
15		NR		1.85	6.75	7.60	7.40	7.20	6.55	5.40	2.60	1.80
16		NR	R E	1.90	6.50	7.60	7.55	7.20	6.50	5.35	2.55	2.00
17		NR	C	1.90	6.35	7.50	7.50	7.05	6.45	5.35	2.50	2.20
18		NR	O	1.90	6.25	7.50	7.50	7.20	6.55	5.30	2.30	2.35
19		NR	R	1.90	6.15	7.45	7.50	7.15	6.40	5.25	2.25	2.35
20		NR	D	1.90	6.15	7.45	7.45	7.00	6.40	5.20	2.15	2.30
21		NR		2.05	6.10	7.45	7.35	7.00	6.30	5.15	2.00	2.35
22		NR		2.70	6.05	7.45	7.45	7.05	6.30	5.10	2.10	2.45
23		NR		3.60	6.05	7.45	7.45	7.10	6.25	4.95	1.95	2.65
24		NR		4.05	6.05	7.45	7.50	7.15	6.20	5.05	1.85	2.80
25		NR		4.90	6.05	7.45	7.45	7.15	6.15	4.90	1.80	2.95
26		NR		5.50	6.00	7.45	7.65	7.10	6.15	4.95	1.75	3.05
27		NR		5.30	6.05	7.50	7.60	7.10	6.10	4.90	1.70	3.15
28		NR		5.65	6.05	7.50	7.50	7.10	6.05	4.85	1.70	3.20
29		NR		5.35	6.05	7.50	7.55	7.05	6.05	4.85	1.65	3.30
30		NR		5.15		7.55	7.50	7.05	5.95	4.75	1.65	3.35
31				4.95		7.60		7.05		4.70	1.60	
Mean												
Ac.-Ft.												

E - Estimated NR - No Record

* Gage height at 12:00 Noon to nearest 0.05 foot.
Recorder installed November 12, 1959.

TABLE 284

DAILY MEAN GAGE HEIGHT
CACHE CREEK AT YOLO

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	NF	NF	NF	1.3	1.7	2.3	NF	NF	17	NF	NF	NF	2.8	3.0	NF	NF	NF
2	NF	NF	NF	5.1	1.6	2.2	NF	NF	18	NF	NF	NF	2.6	2.9	NF	NF	NF
3	NF	NF	NF	3.9	1.6	2.0	NF	NF	19	NF	NF	NF	2.5	2.7	NF	NF	NF
4	NF	NF	NF	3.0	1.6	1.9	NF	NF	20	NF	NF	NF	2.4	2.6	NF	NF	NF
5	NF	NF	NF	3.0	2.5	1.8	NF	NF	21	NF	NF	NF	2.2	2.5	NF	NF	NF
6	NF	NF	NF	3.6	4.4	1.7	NF	NF	22	NF	NF	NF	2.2	2.4	NF	NF	NF
7	NF	NF	NF	2.9	4.0	1.7	NF	NF	23	NF	NF	NF	2.1	2.4	NF	NF	NF
8	NF	NF	NF	11.5	5.7	1.6	NF	NF	24	NF	NF	NF	2.0	2.3	NF	NF	NF
9	NF	NF	NF	14.3	4.6	1.5	NF	NF	25	NF	NF	NF	1.9	2.2	NF	NF	NF
10	NF	NF	NF	9.6	3.9	1.4	NF	NF	26	NF	NF	2.0	1.9	2.1	NF	NF	NF
11	NF	NF	NF	6.3	3.5	NF	NF	NF	27	NF	NF	2.5	1.9	2.1	NF	NF	NF
12	NF	NF	NF	4.9	3.3	NF	NF	NF	28	NF	NF	1.8	1.8	2.1	NF	NF	NF
13	NF	NF	NF	4.1	4.2	NF	NF	NF	29	NF	NF	1.9	1.8	2.1	NF	NF	NF
14	NF	NF	NF	3.6	4.0	NF	NF	NF	30	NF	NF	1.8		2.1	NF	NF	NF
15	NF	NF	NF	3.3	3.5	NF	NF	NF	31		NF	1.4		2.1		NF	
16	NF	NF	NF	3.0	3.2	NF	NF	NF									

Crest Stages:					
	Date	2- 2-60	2- 8-60	3- 6-60	3- 8-60	3-13-60
	Time	10:00 AM	9:45 PM	8:00 AM	6:30 AM	3:00 PM
	Stage	6.7	20.4	4.9	6.4	5.0

NR - No Record
NF - No Flow

TABLE 285

DAILY MEAN GAGE HEIGHT
YOLO BYPASS NEAR WOODLAND

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	10.2	10.2	10.2	NR	NR	11.5	10.7	10.5	17	10.2	10.2	NR	15.4	13.5	10.4	10.6	10.5
2	10.2	10.2	10.2	9.7	NR	11.7	10.6	10.5	18	10.2	10.2	NR	15.1	13.2	10.5	10.6	10.4
3	10.2	10.2	10.2	13.3	10.9	11.7	10.6	10.4	19	10.2	10.2	NR	14.8	13.0	10.5	10.7	10.4
4	10.2	10.2	10.2	14.8	10.8	11.4	10.6	10.5	20	10.2	10.2	NR	14.2	12.8	10.4	10.6	10.5
5	10.2	10.2	10.2	17.7	10.8	11.3	10.6	10.4	21	10.2	10.2	NR	13.3	12.5	10.4	10.7	10.4
6	10.2	10.2	10.2	17.8	11.8	11.1	10.6	10.4	22	10.2	10.2	NR	12.5	12.2	10.4	10.7	10.4
7	10.2	10.2	10.2	17.8	14.0	10.9	10.6	10.4	23	10.2	10.2	NR	11.8	12.0	10.4	10.7	10.4
8	10.2	10.2	10.6	18.3	14.5	10.8	10.7	10.4	24	10.2	10.2	NR	11.2	11.8	10.4	10.7	10.3
9	10.2	10.2	10.6	26.0	18.6	10.8	10.7	10.4	25	10.2	10.3	NR	10.9	11.6	10.4	10.8	10.3
10	10.2	10.2	NR	26.9	21.3	10.8	10.6	10.4	26	10.2	10.3	NR	10.8	11.5	10.5	10.8	10.3
11	10.2	10.2	NR	26.5	20.2	10.8	10.5	10.4	27	10.2	10.2	NR	10.6	11.5	10.6	10.8	10.3
12	10.2	10.2	NR	25.7	16.7	10.7	10.5	10.4	28	10.2	10.2	NR	10.4	11.4	10.6	10.9	10.4
13	10.2	10.3	NR	24.7	16.7	10.7	10.6	10.5	29	10.2	10.2	NR	10.1	11.4	10.7	10.8	10.4
14	10.2	10.3	NR	22.3	16.0	10.7	10.6	10.6	30	10.2	10.3	NR		11.5	10.7	10.6	10.4
15	10.2	10.2	NR	19.5	15.1	10.7	10.5	10.5	31		10.2	NR		11.5		10.6	
16	10.2	10.2	NR	17.2	14.1	10.5	10.5	10.5									

Crest Stages:				
	Date	2- 9-60	3-10-60	4- 2-60
	Time	12:00 PM	1:00 PM	9:00 AM
	Stage	27.1	21.6	11.6

E-Estimated NR-No Record

TABLE 286

DAILY MEAN GAGE HEIGHT
YOLO BYPASS ABOVE SACRAMENTO BYPASS

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1					9.7	10.2	10.1	9.8	17				15.4	13.1		10.0	9.6
2				9.7		10.5	10.0	9.7	18				15.1	12.6		10.2	9.5
3				13.3		10.4	9.9	9.6	19				14.8	12.2	9.5	10.3	9.5
4				14.8		10.2	9.9	9.7	20				14.2	11.9		10.2	9.6
5				15.8		9.8	9.9	9.7	21				13.3	11.5		10.4	9.6
6				16.0	10.6E	9.5E	10.0	9.6	22				12.5	11.1		10.4	9.5
7				16.2	13.8		10.1	9.6	23				11.8	10.8		10.3	9.5
8				16.2	14.2		10.3	9.5	24				11.2	10.6		10.3	9.6
9				18.0	15.8		10.2	9.5	25				10.9	10.4	9.6	10.5	9.6
10				19.9	17.1		10.0	9.6	26				10.8	10.2	9.8	10.4	9.7
11				19.6	16.9		9.8	9.6	27				10.6	10.2	10.1	10.5	9.8
12				18.9	15.7		9.8	9.6	28				10.4	10.1	10.1	10.5	10.0
13				18.0	14.9		9.9	9.8	29				10.1	10.1	10.2	10.4	10.1
14				17.4	15.0		9.9	9.8	30					10.2	10.2	10.1	10.0
15				16.8	14.4		9.9	9.8	31					10.2		9.9	
16				16.0	13.7		9.9	9.7									

Crest Stages:					
	Date	2- 7-60	2-10-60	3-10-60	3-14-60
	Time	6:00 AM	9:00 AM	6:00 PM	8:00 AM
	Stage	16.2	20.0	17.1	15.1

E-Estimated NR-No Record
Note: Tabulation left blank below gage height 9.5 because recorder does not record flow below this gage height.

TABLE 287

DAILY MEAN GAGE HEIGHT
PUTAH CREEK NEAR WINTERS

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	3.9	4.0	3.9	4.3	5.2	5.1	5.0	6.0	17	4.6	3.9	3.9	3.9	4.9	5.4	5.8	6.5
2	3.8	3.9	3.9	4.1	5.3	5.1	5.2	6.2	18	4.6	3.9	3.9	3.9	4.9	5.6	6.0	6.5
3	3.9	3.9	3.9	3.9	5.3	5.2	5.4	6.2	19	4.6	3.9	3.9	3.9	5.0	5.6	6.1	6.6
4	3.9	3.9	3.9	3.9	5.3	5.3	5.5	6.3	20	4.3	3.9	3.9	3.9	5.0	5.6	6.1	6.7
5	3.9	3.9	3.9	4.1	5.2	5.4	5.3	6.4	21	3.8	3.9	4.0	3.9	5.0	5.6	6.1	6.7
6	4.7	3.9	3.9	4.0	5.2	5.4	5.3	6.4	22	3.9	3.9	4.0	3.9	5.0	5.6	6.1	6.8
7	5.1	3.9	3.9	4.0	5.1	5.4	5.3	6.4	23	3.9	4.0	3.9	3.9	5.0	5.5	5.6	6.8
8	5.1	3.9	3.9	5.5	5.1	5.4	5.3	6.5	24	3.9	3.9	4.0	3.9	5.0	5.4	5.1	6.6
9	5.0	3.9	4.0	4.5	5.0	5.4	5.4	6.6	25	3.9	3.9	4.0	3.9	4.9	5.5	5.0	6.7
10	5.0	3.9	3.9	4.3	5.0	5.4	5.6	6.6	26	3.9	3.9	4.0	3.9	4.9	5.4	5.4	6.8
11	4.9	3.9	3.9	4.1	5.0	5.4	5.7	6.6	27	3.9	3.9	4.0	3.9	5.0	4.7	5.8	6.8
12	4.9	3.9	3.9	4.0	5.0	5.4	5.8	6.5	28	3.9	3.9	4.0	3.9	5.0	4.6	5.8	6.8
13	4.9	3.9	3.9	4.0	5.0	5.4	5.9	6.5	29	3.9	3.9	4.0	4.7	5.0	4.6	5.8	6.8
14	4.9	3.9	3.9	4.0	5.0	5.4	6.0	6.6	30	3.9	3.9	3.8		5.0	4.6	5.8	6.8
15	4.7	3.9	3.9	3.9	5.0	5.4	6.0	6.6	31		3.9	3.9		5.0		5.8	
16	4.6	3.9	3.9	3.9	4.9	5.4	5.8	6.6									

Crest Stages:						
	Date	2- 1-60	2- 8-60	3- 5-60	6-28-60	6- 29-60
	Time	6:30 PM	7:30 AM	8:30 AM	7:00 PM	5:00 PM
	Stage	5.0	6.5	5.3	6.8	6.8

NR — No Record

TABLE 288

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
McLEOD LAKE AT STOCKTON

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	7.4 3.0	7.4 2.8	7.1 3.0	7.9 3.2	7.0 3.4	6.8 3.0	6.6 2.8	6.6 2.7	17	7.0 2.9	7.2 2.8	6.5 2.7	6.9 3.2	6.9 2.9	6.8 2.7	6.8 3.1	7.6 3.8
2	7.7 3.1	7.5 2.8	6.7 2.7	7.4 4.0	6.7 3.1	6.3 2.6	6.6 2.9	6.7 2.8	18	7.2 2.9	7.0 2.9	6.2 2.7	7.3 3.5	7.1 3.0	6.8 2.7	6.9 2.5	7.5 3.8
3	7.7 3.3	7.4 2.9	6.3 2.7	7.1 3.3	6.6 3.0	6.3 2.7	6.4 2.7	6.9 3.6	19	7.0 3.1	6.7 2.8	6.3 2.7	7.3 3.4	7.3 3.0	6.7 2.6	6.5 2.5	7.4 3.3
4	7.4 3.2	6.9 2.9	6.3 2.6	7.0 3.4	6.7 3.0	6.2 2.7	6.4 3.0	7.6 4.6	20	6.6 2.8	6.6 2.8	6.6 2.9	7.1 2.8	7.3 2.9	6.5 2.8	6.6 3.1	7.4 3.2
5	6.8 2.9	6.4 2.7	6.5 2.7	7.2 3.4	6.7 3.0	6.4 2.9	6.5 2.8	8.2 4.5	21	6.4 2.7	6.5 2.9	7.2 3.1	7.1 2.8	7.4 3.2	6.7 3.7	7.1 3.2	7.3 2.9
6	6.6 2.6	6.3 2.5	6.6 2.8	7.1 3.1	6.6 2.7	6.5 3.2	6.5 2.9	8.2 4.1	22	6.1 2.6	6.6 2.9	7.4 3.5	7.4 2.9	7.5 3.3	7.1 3.0	7.1 3.0	7.6 3.1
7	6.5 2.7	6.7 2.8	6.9 3.1	7.2 3.4	6.9 3.2	6.7 3.0	6.7 3.3	8.0 3.6	23	6.0 2.4	6.9 3.2	7.3 3.1	7.2 2.7	7.6 3.5	6.8 2.9	7.1 2.9	7.7 3.3
8	6.5 2.8	7.0 3.2	7.4 3.3	8.7 4.7	6.9 3.0	6.8 3.2	6.9 3.3	8.0 3.3	24	6.2 2.6	7.4 3.5	7.6 3.3	7.2 2.7	7.3 3.5	6.8 2.8	7.2 3.0	8.1 3.7
9	6.5 2.9	7.2 3.5	7.4 3.3	8.9 4.7	7.1 3.3	6.8 3.3	7.1 3.2	8.2 3.3	25	6.6 2.9	7.8 3.6	8.0 3.6	7.4 2.7	7.3 3.5	6.7 2.7	7.0 2.6	8.1 3.6
10	6.7 3.2	7.1 3.2	7.8 3.4	8.2 4.3	7.0 3.2	6.8 3.3	7.3 3.0	8.3 3.4	26	6.7 3.1	7.3 2.9	8.0 3.6	7.6 3.2	7.2 3.5	7.0 2.8	7.0 2.6	7.9 3.5
11	6.8 3.3	7.1 3.0	8.1 3.4	7.8 4.0	7.2 3.2	7.0 3.4	7.5 3.3	8.0 3.0	27	6.9 2.9	7.3 2.8	7.8 3.3	7.1 3.4	7.3 3.6	7.5 3.2	7.1 2.7	7.6 3.3
12	7.1 3.4	7.4 3.4	7.6 4.0	7.5 3.8	7.3 3.4	7.1 3.0	7.7 3.2	7.8 3.0	28	7.1 2.8	7.6 2.8	7.5 3.2	6.8 3.1	7.5 3.6	7.3 3.0	7.1 2.9	7.3 3.3
13	7.1 3.3	7.2 3.4	7.4 3.2	7.5 3.6	7.1 3.7	7.0 2.8	7.6 2.8	7.5 3.0	29	7.2 2.8	7.8 3.0	7.4 3.0	6.9 3.2	7.1 3.3	7.0 2.9	7.2 2.9	6.7 2.9
14	7.3 3.3	6.8 2.8	7.4 2.7	7.1 3.5	6.8 3.5	7.2 2.8	7.6 3.0	7.2 3.1	30	7.4 2.8	8.1 3.1	7.2 3.1		7.2 3.8	6.8 2.8	6.9 2.8	6.6 2.9
15	7.4 3.3	6.9 2.4	7.2 3.1	6.8 3.3	6.8 3.4	6.9 2.6	7.4 2.9	7.0 3.0	31		7.6 3.4	7.1 3.1		7.0 3.1		6.8 2.8	
16	7.1 3.2	7.1 2.6	6.8 3.0	6.7 3.2	7.0 3.2	6.8 2.3	7.2 2.8	6.9 3.8									

Crest Stages:	Date	Time	Stage

NR—No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 289

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

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	3.4 0.9	3.4 0.9	3.2 1.2	4.0 1.2	3.0 1.2	2.6 0.2	2.8 0.5	2.2 -0.2	17	3.2 0.9	3.5 1.0	2.9 1.3	3.2 1.5	2.3 0.0	2.3 -0.2	2.6 0.3	2.9 0.4
2	3.8 1.1	3.6 0.9	2.8 0.9	3.7 1.6	2.8 1.0	2.2 -0.3	2.8 0.5	2.2 -0.2	18	3.5 0.8	3.3 1.1	2.6 1.1	3.5 1.5	2.5 0.0	2.4 -0.1	2.5 0.0	2.9 0.4
3	3.7 1.3	3.5 1.0	2.6 0.8	3.2 1.1	2.8 0.9	2.2 -0.3	2.5 0.2	2.4 0.2	19	3.2 1.1	3.0 1.0	2.6 0.9	3.7 1.6	2.7 0.0	2.2 -0.2	2.1 -0.2	2.7 0.1
4	3.4 1.0	3.1 1.0	2.6 0.6	3.3 1.2	2.8 0.8	2.2 -0.3	2.5 0.3	3.0 1.2	20	2.9 0.8	3.0 0.9	2.9 1.0	3.3 1.2	2.8 0.0	1.9 -0.2	2.1 0.3	2.6 0.0
5	3.0 0.9	2.6 0.8	2.7 0.7	3.5 1.3	2.8 0.7	2.2 -0.2	2.3 0.0	3.7 1.2	21	2.8 0.7	2.8 0.9	3.3 1.2	3.4 1.2	3.0 0.2	2.2 -0.2	2.6 0.4	2.6 -0.2
6	3.0 0.7	2.6 0.6	2.8 0.6	3.5 1.4	2.8 0.5	2.2 0.1	2.2 0.1	3.6 0.9	22	2.3 0.6	2.8 0.8	3.7 1.3	3.7 1.2	2.9 0.2	2.4 0.2	2.7 0.3	2.9 0.0
7	2.8 0.7	2.8 0.7	3.1 1.0	3.5 1.3	3.1 0.5	2.2 0.1	2.3 0.3	3.4 0.6	23	2.3 0.4	3.2 0.9	3.7 1.4	3.5 1.2	2.9 0.3	2.0 0.0	2.7 0.3	3.0 0.2
8	2.7 0.7	3.1 0.8	3.7 1.2	4.9 1.4	2.9 0.8	2.3 0.1	2.5 0.3	3.4 0.4	24	2.4 0.4	3.6 1.2	3.8 1.4	3.2 1.1	2.6 0.6	2.2 0.0	2.8 0.4	3.4 0.6
9	2.7 0.7	3.3 1.0	3.7 1.4	5.1 2.3	3.0 0.5	2.3 0.3	2.6 0.3	3.4 0.4	25	2.8 0.6	4.1 1.7	4.3 1.4	3.5 1.0	2.6 0.4	2.3 0.0	2.7 0.1	3.6 0.6
10	2.9 0.8	3.3 1.2	4.0 1.4	4.5 2.2	2.8 0.7	2.3 0.3	2.7 0.3	3.5 0.5	26	2.8 0.8	3.5 1.3	4.1 1.6	3.7 1.3	2.5 0.5	2.5 0.2	2.6 0.0	3.3 0.4
11	3.0 0.9	3.2 1.1	4.3 1.6	4.4 2.4	3.0 0.6	2.4 0.4	2.9 0.5	3.3 0.2	27	3.0 0.9	3.4 1.0	3.9 1.4	3.2 1.4	2.7 0.5	3.1 0.6	2.7 0.1	3.1 0.3
12	3.2 1.0	3.5 1.0	3.9 1.9	4.2 2.8	3.0 0.7	2.6 0.3	3.1 0.4	3.0 0.2	28	3.2 0.9	3.6 0.8	3.6 1.4	2.9 1.2	3.0 0.6	3.2 0.8	2.8 0.2	2.8 0.2
13	3.3 1.2	3.4 1.2	3.7 1.4	4.1 2.4	2.7 0.8	2.4 0.1	3.0 0.2	2.9 0.1	29	3.3 0.8	3.8 1.0	3.5 1.2	2.9 1.2	2.6 0.4	3.0 0.7	2.9 0.1	2.3 -0.2
14	3.4 1.1	3.0 1.0	3.6 1.4	3.7 2.3	2.5 0.6	2.6 0.2	3.0 0.3	2.6 0.0	30	3.4 0.9	4.2 1.1	3.3 1.2		2.7 0.7	2.9 0.6	2.7 0.0	2.0 -0.3
15	3.5 1.2	3.0 0.7	3.6 1.4	3.3 2.0	2.4 0.4	2.3 -0.2	2.9 0.3	2.3 -0.1	31		3.8 1.5	3.3 1.2		2.8 0.3		2.6 -0.1	
16	3.3 1.2	3.3 0.7	3.2 1.4	3.2 1.8	2.5 0.4	2.2 -0.4	3.0 0.3	2.2 0.3									

Crest Stages:	Date	
	Time	
	Stage	

NR—No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 290

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

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	7.4 3.8	7.4 3.7	7.2 3.9	8.0 4.2	7.0 4.2	6.8 3.6	6.7 3.6	6.5 3.3	17	7.1 3.8	7.4 3.8	6.8 3.8	7.0 4.1	6.8 3.6	6.7 3.3	6.8 3.8	7.5 4.3
2	7.8 4.0	7.6 3.7	6.8 3.6	7.6 4.8	6.8 3.9	6.4 3.1	6.7 3.5	6.6 3.4	18	7.4 3.7	7.2 3.8	6.5 3.7	7.4 4.3	7.0 3.6	6.8 3.3	6.8 3.2	7.4 4.2
3	7.7 4.3	7.5 3.9	6.5 3.5	7.2 4.2	6.7 3.8	6.4 3.2	6.5 3.4	6.8 4.0	19	7.1 4.0	6.9 3.7	6.5 3.6	7.5 4.4	7.2 3.6	6.6 3.3	6.4 3.2	7.3 3.8
4	7.4 4.0	7.1 3.8	6.4 3.4	7.2 4.2	6.8 3.7	6.3 3.2	6.5 3.6	7.4 5.1	20	6.8 3.7	6.8 3.7	6.8 3.7	7.2 3.8	7.2 3.6	6.4 3.4	6.5 3.7	7.2 3.7
5	7.0 3.8	6.5 3.6	6.6 3.4	7.4 4.3	6.8 3.7	6.4 3.4	6.4 3.3	8.1 5.0	21	6.6 3.5	6.7 3.7	7.3 4.0	7.3 3.9	7.4 3.8	6.6 4.1	7.0 3.8	7.1 3.4
6	6.8 3.5	6.4 3.3	6.7 3.5	7.3 4.1	6.7 3.5	6.5 3.7	6.4 3.5	8.0 4.6	22	6.2 3.4	6.8 3.7	7.6 4.3	7.6 3.9	7.3 3.9	7.0 3.6	7.0 3.7	7.4 3.6
7	6.7 3.5	6.8 3.6	7.0 3.9	7.4 4.3	7.0 3.9	6.6 3.6	6.6 3.8	7.9 4.2	23	6.2 3.2	7.0 3.9	7.5 4.1	7.4 3.9	7.4 4.1	6.6 3.5	7.0 3.6	7.5 3.9
8	6.7 3.6	7.1 3.9	7.6 4.2	8.8 5.5	6.9 3.7	6.8 3.8	6.8 3.9	7.9 4.0	24	6.4 3.3	7.5 4.2	7.7 4.3	7.2 3.8	7.1 4.1	6.7 3.5	7.1 3.7	7.9 4.3
9	6.7 3.7	7.3 4.2	7.5 4.2	9.1 5.5	7.1 3.7	6.8 3.8	7.0 3.8	7.9 4.0	25	6.7 3.6	7.9 4.5	8.2 4.6	7.4 3.7	7.1 4.0	6.6 3.3	7.0 3.3	8.0 4.1
10	6.9 3.9	7.2 4.0	7.9 4.2	8.4 5.3	7.0 4.0	6.7 3.9	7.1 3.7	8.0 4.0	26	6.8 3.8	7.4 3.9	8.0 4.6	7.6 4.1	7.0 4.2	6.9 3.5	6.9 3.3	7.8 4.0
11	7.0 4.1	7.2 4.0	8.2 4.4	8.1 5.1	7.2 3.9	6.9 4.0	7.3 4.0	7.8 3.7	27	6.9 3.8	7.3 3.9	7.9 4.3	7.1 4.3	7.2 4.2	7.4 3.9	7.0 3.4	7.5 3.9
12	7.2 4.1	7.5 3.8	7.8 4.9	7.9 5.1	7.3 4.1	7.0 3.7	7.5 3.9	7.6 3.7	28	7.1 3.8	7.6 3.7	7.6 4.3	6.9 4.0	7.4 4.2	7.3 3.8	7.1 3.6	7.2 3.8
13	7.3 4.2	7.3 4.2	7.6 4.2	7.8 4.8	7.0 4.3	6.9 3.5	7.4 3.6	7.4 3.7	29	7.3 3.7	7.8 3.9	7.5 4.0	6.9 4.0	7.0 3.9	7.1 3.7	7.1 3.6	6.7 3.4
14	7.3 4.2	6.9 3.8	7.5 3.9	7.4 4.7	6.8 4.1	7.1 3.5	7.4 3.7	7.1 3.6	30	7.4 3.7	8.1 4.0	7.3 4.1		7.1 4.4	6.9 3.6	6.9 3.5	6.4 3.4
15	7.4 4.1	7.0 3.4	7.5 4.1	7.0 4.4	6.8 4.0	6.8 3.2	7.3 3.6	6.8 3.5	31		7.7 4.4	7.2 4.1		7.0 3.8		6.8 3.4	
16	7.3 4.1	7.2 3.5	7.1 4.0	7.0 4.2	6.9 3.9	6.7 3.0	7.2 3.6	6.8 4.2									

Crest Stages:	Date	
	Time	
	Stage	

NR— No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 291

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

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec	Jan.	Feb.	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	6.7 2.3	6.7 2.2	6.4 2.3	7.2 2.7	6.3 2.7	6.1 3.3	6.0 2.3	6.0 2.1	17	6.3 2.3	6.5 2.2	5.9 2.1	6.2 2.6	6.3 2.3	6.1 2.0	6.1 2.5	6.9 3.2
2	7.1 2.5	6.8 2.2	6.0 2.1	6.8 3.4	6.0 2.5	5.7 1.9	5.9 2.3	6.0 2.2	18	6.6 2.2	6.3 2.3	5.6 2.1	6.6 2.9	6.5 2.4	6.1 2.0	6.2 1.8	6.8 3.1
3	7.0 2.8	6.7 2.3	5.6 2.0	6.4 2.7	6.0 2.4	5.6 2.1	5.7 2.1	6.2 2.9	19	6.3 2.5	6.0 2.2	5.7 2.1	6.6 2.8	6.6 2.4	5.9 2.0	5.8 1.9	6.7 2.6
4	6.7 2.5	6.2 2.2	5.6 2.0	6.4 2.8	6.0 2.4	5.5 2.0	5.7 2.3	6.9 3.9	20	5.9 2.2	6.0 2.1	5.9 2.3	6.4 2.2	6.6 2.3	5.8 2.2	5.9 2.5	6.6 2.5
5	6.2 2.3	5.7 2.0	5.8 2.1	6.6 2.8	6.0 2.4	5.7 2.2	5.8 2.1	7.5 3.8	21	5.7 2.1	5.8 2.3	6.5 2.6	6.4 2.2	6.8 2.6	6.1 3.0	6.4 2.5	6.5 2.2
6	6.0 2.0	5.6 1.9	5.9 2.2	6.4 2.5	5.9 2.1	5.8 2.6	5.8 2.3	7.4 3.4	22	5.4 2.0	5.9 2.3	6.8 2.9	6.8 2.3	6.8 2.7	6.3 2.4	6.4 2.4	6.8 2.4
7	5.9 2.1	6.0 2.2	6.2 2.5	6.5 2.8	6.3 2.6	6.0 2.3	6.0 2.6	7.3 2.9	23	5.4 1.8	6.2 2.5	6.7 2.5	6.6 2.1	6.9 2.9	6.1 2.3	6.3 2.2	7.0 2.6
8	5.8 2.2	6.3 2.5	6.7 2.7	8.0 4.1	6.2 2.4	6.1 2.6	6.2 2.6	7.3 2.7	24	5.6 2.0	6.7 2.8	6.9 2.7	6.5 2.1	6.6 2.8	6.1 2.2	6.5 2.4	7.3 3.1
9	5.9 2.3	6.5 2.8	6.7 2.7	8.2 4.1	6.4 2.7	6.1 2.7	6.5 2.5	7.5 2.7	25	6.0 2.3	7.1 3.0	7.4 3.0	6.7 2.1	6.6 3.0	6.0 2.0	6.3 2.0	7.3 2.9
10	6.1 2.6	6.4 2.6	7.1 2.8	7.5 3.7	6.3 2.6	6.2 2.7	6.6 2.4	7.6 2.7	26	6.0 2.5	6.6 2.3	7.3 2.7	6.9 2.5	6.5 3.0	6.3 2.2	6.3 2.0	7.1 2.7
11	6.2 2.7	6.4 2.4	7.4 2.8	7.2 3.4	6.6 2.8	6.3 2.7	6.8 2.7	7.3 2.4	27	6.2 2.3	6.6 2.2	7.2 2.7	6.4 2.8	6.7 2.9	6.8 2.6	6.4 2.0	6.9 2.6
12	6.4 2.8	6.7 2.8	6.9 3.3	6.9 3.2	6.7 3.1	6.4 2.3	7.0 2.5	7.0 2.4	28	6.4 2.2	6.9 2.2	6.9 2.6	6.1 2.5	6.8 3.0	6.6 2.4	6.4 2.3	6.5 2.6
13	6.5 2.7	6.5 2.8	6.7 2.5	6.8 3.0	6.5 3.1	6.3 2.2	6.8 2.2	6.8 2.4	29	6.6 2.2	7.1 2.4	6.7 2.4	6.2 2.5	6.4 2.7	6.3 2.2	6.5 2.3	6.0 2.2
14	6.6 2.7	6.1 2.2	6.7 2.2	6.5 2.9	6.2 2.9	6.5 2.2	6.8 2.3	6.5 2.4	30	6.7 2.2	7.4 2.5	6.5 2.5		6.5 3.2	6.2 2.2	6.2 2.2	5.9 2.2
15	6.7 2.7	6.2 1.8	6.6 2.5	6.1 2.7	6.2 2.8	6.2 1.9	6.7 2.2	6.3 2.3	31		7.0 2.8	6.4 2.5		6.4 2.5		6.1 2.1	
16	6.5 2.6	6.4 2.0	6.2 2.4	6.0 2.6	6.3 2.7	6.1 1.7	6.5 2.1	6.2 3.1									

Crest Stages:	Date	
	Time	
	Stage	

NR—No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 292

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
MIDDLE RIVER AT MOWRY BRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	6.2 3.1	6.2 3.0	6.0 3.2	6.8 3.2	5.8 3.2	5.5 2.8	5.5 2.7	5.1 2.7	17	5.9 3.0	6.2 3.2	5.6 3.1	5.9 3.2	5.3 2.7	5.3 2.8	5.4 2.9	6.0 3.1
2	6.6 3.2	6.4 3.1	5.6 3.0	6.5 3.7	5.6 3.1	5.0 2.7	5.5 2.7	5.2 2.7	18	6.2 3.0	6.0 3.0	5.3 3.0	6.3 3.3	5.6 2.8	5.3 2.7	5.4 2.7	5.9 2.9
3	6.5 3.4	6.3 3.1	5.3 2.8	6.0 3.2	5.5 3.0	5.1 2.7	5.3 2.7	5.4 2.9	19	6.0 3.1	5.7 3.0	5.3 2.9	6.4 3.4	5.8 2.8	5.1 2.7	5.0 2.7	5.8 2.8
4	6.3 NR	5.9 3.1	5.3 2.9	6.1 3.2	5.6 2.9	5.1 2.6	5.3 2.8	6.0 3.7	20	5.7 2.9	5.7 3.0	5.6 3.0	6.1 3.0	5.8 2.7	4.9 2.7	5.0 2.9	5.7 2.6
5	5.8 3.0	5.3 3.0	5.4 3.0	6.3 3.3	5.7 2.9	5.1 2.6	5.1 2.7	6.7 3.7	21	5.5 2.9	5.5 3.0	6.1 3.2	6.1 3.0	6.0 2.9	5.0 2.4	5.5 2.7	5.5 2.4
6	5.6 2.9	5.3 3.0	5.5 3.1	6.2 3.3	5.6 2.9	5.2 2.7	5.1 2.7	6.6 3.2	22	5.0 2.9	5.6 3.0	6.5 3.4	6.5 3.1	5.9 2.9	5.4 2.3	5.6 2.7	5.9 2.5
7	5.6 2.9	5.6 3.2	5.9 3.2	6.3 3.2	5.9 2.8	5.2 2.9	5.2 2.7	6.4 2.9	23	5.0 2.8	5.9 3.1	6.4 3.4	6.2 3.1	5.9 3.0	5.0 2.6	5.6 2.8	6.0 2.6
8	5.5 2.9	5.8 3.1	6.4 3.2	7.6 3.3	5.7 3.0	5.3 2.8	5.4 3.0	6.4 2.7	24	5.2 2.8	6.4 3.3	6.6 3.2	6.0 3.0	5.7 3.0	5.2 2.5	5.7 2.8	6.4 2.9
9	5.5 3.0	6.1 3.1	6.4 3.3	7.9 4.3	5.8 2.9	5.4 3.0	5.6 2.9	6.4 2.7	25	5.5 2.9	6.8 3.5	7.0 3.3	6.3 3.0	5.7 3.0	5.0 2.5	5.6 2.7	6.5 3.0
10	5.7 3.0	6.0 3.3	6.8 3.3	7.3 4.1	5.7 3.0	5.3 3.0	5.6 2.8	6.5 2.7	26	5.5 3.0	6.2 3.3	6.9 3.6	6.4 3.2	5.6 2.9	5.4 2.7	5.5 2.6	6.3 3.0
11	5.8 3.2	5.9 3.2	7.0 3.5	6.9 4.0	5.9 3.0	5.5 3.1	5.9 3.0	6.3 2.7	27	5.7 3.1	6.2 3.0	6.7 3.4	6.0 3.4	5.7 3.1	5.9 2.9	5.6 2.6	6.0 2.8
12	6.0 3.2	6.2 3.0	6.7 3.8	6.7 3.9	5.9 3.1	5.5 2.9	6.1 2.9	6.1 2.8	28	5.9 3.1	6.4 3.0	6.4 3.3	5.7 3.2	6.0 3.0	6.0 2.9	5.7 2.7	5.7 2.6
13	6.1 3.3	6.1 3.2	6.4 3.3	6.7 3.8	5.7 3.3	5.4 2.8	6.0 2.8	5.9 2.8	29	6.1 3.0	6.6 3.3	6.3 3.2	5.7 3.2	5.6 2.8	5.8 2.7	5.8 2.8	5.2 2.5
14	6.2 3.2	5.7 3.1	6.4 3.1	6.3 3.7	5.5 3.1	5.6 2.8	6.0 2.9	5.6 2.7	30	6.2 3.0	6.9 3.3	6.1 3.2		5.7 3.1	5.7 2.6	5.6 2.8	4.9 2.7
15	6.3 3.2	5.8 3.0	6.3 3.3	5.9 3.5	5.3 2.9	5.2 2.7	5.9 2.9	5.3 2.7	31		6.5 3.5	6.1 3.2		5.7 2.8		5.5 2.8	
16	6.1 3.2	6.0 2.9	5.9 3.2	5.8 3.3	5.5 3.0	5.2 2.7	5.8 2.9	5.2 3.0									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 293

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
TOM PAINE SLOUGH ABOVE MOUTH

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June
1	7.6 4.0	7.7 3.8	7.4 4.1	7.2 4.2	7.2 4.2	6.9 3.6	6.9 3.6	6.5 3.3	17	7.3 3.9	7.6 3.8	7.0 3.9	7.3 4.2	6.8 3.5	6.7 3.3	6.8 3.6	7.3 4.2
2	8.0 4.1	7.8 3.9	7.0 3.8	7.8 4.8	7.0 4.0	6.5 3.2	6.9 3.6	6.5 3.3	18	7.7 3.8	7.4 4.0	6.8 3.8	7.7 4.3	7.0 3.6	6.7 3.3	6.7 3.2	7.3 4.1
3	7.9 4.4	7.7 4.0	6.7 3.7	7.4 4.2	6.9 3.8	6.5 3.3	6.7 3.4	6.7 3.9	19	7.4 4.1	7.2 3.8	6.8 3.7	7.8 4.4	7.2 3.6	6.5 3.3	6.3 3.1	7.2 3.7
4	7.7 4.1	7.3 3.9	6.7 3.6	7.5 4.2	7.0 3.7	6.5 3.5	6.7 3.6	7.4 4.9	20	7.1 3.8	7.1 3.8	7.1 3.9	7.5 3.8	7.2 3.6	6.2 3.4	6.4 3.7	7.0 3.6
5	7.2 3.9	6.8 3.7	6.8 3.6	7.7 4.3	7.0 3.7	6.5 3.5	6.5 3.3	8.1 4.9	21	6.9 3.6	7.0 3.8	7.6 4.2	7.6 3.9	7.4 3.8	6.4 4.0	6.9 3.8	7.0 3.3
6	7.0 3.6	6.8 3.5	7.0 3.7	7.6 4.1	6.9 3.5	6.6 3.8	6.4 3.5	8.0 4.4	22	6.5 3.6	7.0 3.8	7.8 4.4	7.8 3.9	7.4 3.9	6.8 3.8	7.0 3.6	7.3 3.5
7	7.0 3.6	7.0 3.7	7.3 4.0	7.7 4.1	7.2 3.9	6.6 3.6	6.6 3.8	7.8 4.1	23	6.4 3.3	7.3 4.0	7.8 4.2	7.6 4.0	7.3 3.9	6.5 3.5	7.0 3.5	7.4 3.7
8	6.9 3.7	7.3 4.0	7.9 4.1	9.0 4.3	7.1 3.9	6.7 3.6	6.8 3.8	7.8 3.8	24	6.6 3.4	7.8 4.3	8.0 4.2	7.4 3.8	7.1 4.2	6.6 3.4	7.1 3.6	7.8 4.2
9	6.9 3.8	7.5 4.3	7.8 4.3	9.3 5.4	7.2 3.7	6.7 3.8	7.0 3.8	7.9 3.9	25	6.9 3.7	8.2 4.5	8.4 4.3	7.6 3.8	7.1 4.0	6.5 3.3	6.9 3.3	7.9 4.1
10	7.1 4.0	7.5 4.4	8.2 4.2	8.7 5.2	7.1 3.9	6.7 3.9	7.1 3.7	8.0 3.9	26	7.0 3.9	7.6 4.4	8.3 4.6	7.8 4.1	7.0 4.1	6.8 3.5	6.8 3.3	7.7 3.9
11	7.2 4.2	7.4 4.1	8.4 4.4	8.4 4.9	7.3 3.8	6.9 4.0	7.3 3.9	7.7 3.7	27	7.2 4.0	7.6 4.0	8.1 4.4	7.4 4.3	7.1 4.1	7.3 3.8	7.0 3.3	7.4 3.8
12	7.4 4.2	7.7 3.9	8.1 4.8	8.1 4.8	7.3 4.1	6.9 3.7	7.6 3.8	7.5 3.6	28	7.4 3.9	7.8 3.8	7.8 4.3	7.1 4.0	7.4 4.2	7.4 3.8	7.1 3.5	7.1 3.7
13	7.5 4.3	7.6 4.3	7.9 4.2	8.0 4.7	7.1 4.3	6.8 3.5	7.4 3.5	7.3 3.6	29	7.5 3.8	8.0 4.1	7.7 4.1	7.1 4.0	7.0 3.9	7.2 3.7	7.2 3.5	6.6 3.3
14	7.6 4.2	7.2 4.0	7.8 4.0	7.7 4.6	6.8 4.1	7.0 3.5	7.4 3.6	7.1 3.5	30	7.6 3.8	8.4 4.2	7.5 4.2		7.1 4.3	7.0 3.6	7.0 3.4	6.3 3.2
15	7.7 4.2	7.2 3.5	7.7 4.2	7.3 4.3	6.7 4.0	6.6 3.2	7.3 3.6	6.7 3.4	31		7.9 4.5	7.5 4.1		7.1 3.8		6.9 3.3	
16	7.5 4.2	7.5 3.6	7.3 4.1	7.2 4.2	6.9 4.0	6.6 3.0	7.2 3.5	6.6 4.1									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 294

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

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	3.6 -0.6	3.7 -0.8	3.3 -0.6	4.1 -0.3	3.2 -0.2	3.0 -0.6	2.9 -0.8	2.8 -0.9	17	3.2 -0.6	3.4 -0.7	2.8 -0.8	3.1 -0.3	3.2 -0.6	3.0 -0.9	3.0 -0.5	3.8 0.2
2	4.0 -0.4	3.7 -0.8	2.9 -0.9	3.7 0.4	2.9 -0.4	2.6 -1.0	2.8 -0.7	2.8 -0.8	18	3.5 -0.7	3.2 -0.7	2.5 -0.9	3.5 -0.1	3.4 -0.6	3.0 -0.9	3.1 -1.1	3.7 0.1
3	3.9 -0.2	3.6 -0.6	2.5 -0.9	3.3 -0.2	2.9 -0.6	2.6 -0.9	2.7 -0.9	3.1 -0.1	19	3.2 -0.4	2.9 -0.8	2.6 -0.8	3.5 -0.2	3.5 -0.6	2.8 -0.9	2.7 -1.1	3.6 -0.3
4	3.6 -0.4	3.2 -0.7	2.5 -1.0	3.3 -0.1	2.9 -0.6	2.5 -0.9	2.7 -0.6	3.7 0.9	20	2.8 -0.7	2.9 -0.8	2.9 -0.6	3.3 -0.8	3.5 -0.6	2.7 -0.8	2.8 -0.4	3.5 -0.5
5	3.1 -0.7	2.6 -0.9	2.7 -0.9	3.5 -0.2	3.0 -0.6	2.6 -0.7	2.7 -0.9	4.4 0.9	21	2.6 -0.8	2.8 -0.7	3.5 -0.3	3.4 -0.7	3.7 -0.4	3.0 0.0	3.3 -0.4	3.4 -0.8
6	2.9 -1.0	2.5 -1.0	2.8 -0.7	3.4 -0.4	2.8 -0.8	2.7 -0.4	2.7 -0.7	4.3 0.4	22	2.3 -0.9	2.9 -0.7	3.7 -0.1	3.7 -0.6	3.7 -0.3	3.3 -0.6	3.3 -0.6	3.7 -0.6
7	2.8 -0.9	2.9 -0.8	3.1 -0.4	3.5 -0.2	3.2 -0.3	2.9 -0.6	2.9 -0.3	4.2 0.0	23	2.3 -1.2	3.1 -0.4	3.6 -0.4	3.4 -0.8	3.8 0.0	3.0 -0.6	3.3 -0.8	3.8 -0.3
8	2.8 -0.7	3.2 -0.4	3.7 -0.3	5.0 1.1	3.1 -0.5	3.0 -0.3	3.2 -0.3	4.2 -0.3	24	2.5 -1.0	3.7 -0.1	3.8 -0.2	3.4 -0.8	3.5 -0.1	3.0 -0.8	3.4 -0.6	4.2 0.1
9	2.8 -0.6	3.4 -0.1	3.6 -0.3	5.2 0.8	3.3 -0.3	3.0 -0.3	3.4 -0.4	4.3 -0.3	25	2.9 -0.7	4.0 0.0	4.3 0.1	3.6 -0.4	3.5 0.0	2.9 -0.9	3.2 -1.0	4.3 -0.1
10	3.0 -0.4	3.3 -0.4	4.0 -0.1	4.4 0.8	3.2 -0.4	3.1 -0.2	3.5 -0.5	4.4 -0.2	26	2.9 -0.5	3.5 -0.6	4.2 0.1	3.8 -0.4	3.4 0.0	3.2 -0.7	3.2 -1.0	4.0 -0.2
11	3.1 -0.2	3.3 -0.6	4.3 0.4	4.1 0.4	3.5 -0.2	3.2 -0.2	3.7 -0.3	4.2 -0.6	27	3.1 -0.6	3.6 -0.7	4.1 -0.2	3.3 -0.1	3.6 0.0	3.7 -0.4	3.3 -0.9	3.8 -0.3
12	3.3 -0.2	3.7 -0.2	3.8 0.4	3.8 0.2	3.6 -0.2	3.3 -0.6	3.9 -0.5	3.9 -0.6	28	3.3 -0.7	3.8 -0.6	3.8 -0.2	3.0 -0.5	3.8 0.0	3.5 -0.6	3.3 -0.7	3.4 -0.3
13	3.4 -0.2	3.3 -0.2	3.6 -0.4	3.7 0.1	3.4 0.1	3.2 -0.7	3.7 -0.8	3.7 -0.6	29	3.5 -0.7	4.0 -0.6	3.6 -0.5	3.1 -0.4	3.3 -0.3	3.3 -0.7	3.4 -0.7	2.9 -0.7
14	3.5 -0.2	3.0 -0.8	3.6 -0.8	3.4 0.0	3.1 -0.1	3.4 -0.8	3.7 -0.7	3.4 -0.6	30	3.6 -0.7	4.3 -0.4	3.4 -0.4		3.4 0.2	3.1 -0.8	3.2 -0.8	2.8 -0.7
15	3.6 -0.3	3.1 -1.1	3.5 -0.4	3.0 -0.3	3.1 -0.2	3.1 -1.0	3.6 -0.7	3.1 -0.7	31		3.8 -0.1	3.3 -0.4		3.3 -0.5		3.0 -0.9	
16	3.4 -0.3	3.3 -1.0	3.1 -0.6	3.0 -0.3	3.2 -0.3	3.0 -1.3	3.4 -0.8	3.1 0.1									

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
OLD RIVER NEAR TRACY ROAD BRIDGE

In feet

Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June
1	NR NR	7.6 3.6	7.3 3.9	8.1 4.1	7.1 4.0	6.8 3.4	6.8 3.3	6.4 3.2E
2	7.9 NR	7.7 3.7	6.9 3.6	7.8 4.7	6.9 3.8	6.4 3.1	6.8 3.4	6.4 3.2E
3	7.8 4.2	7.6 3.8	6.6 3.5	7.3 4.0	6.8 3.6	6.4 3.2	6.6 3.3	6.7 3.7
4	7.6 3.9	7.2 3.7	6.6 3.4	7.4 4.1	6.9 3.5	6.4 3.2	6.6 3.4	7.3 4.8
5	7.1 3.7	6.6 3.5	6.7 3.4	7.6 4.1	6.9 3.5	6.4 3.3	6.4 3.2	8.0 4.7
6	6.8 3.4	6.6 3.3	6.9 3.5	7.5 3.8	6.8 3.[illegible]	6.5 3.5	6.4 3.3	7.9 4.2
7	6.8 3.4	6.9 3.5	7.2 3.8	7.6 3.8	7.1 3.7	6.5 3.4	6.5 3.6	7.8 3.9
8	6.8 3.5	7.2 3.9	7.8 3.8	8.9 4.1	7.0 3.5	6.6 3.4	6.8 3.6	7.8 3.6
9	6.8 3.6	7.4 4.1	7.7 4.0	9.2 5.3	7.1 3.5	6.6 3.6	6.9 3.6	7.8 3.7
10	7.0 3.8	7.4 4.2	8.1 4.0	8.6 5.0	7.0 3.7	6.6 3.7	7.0 3.5	7.9 3.7
11	7.1 4.0	7.3 3.9	8.3 4.3	8.3 4.7	7.2 3.6	6.8 3.8	7.2 3.7	7.6 3.4
12	7.3 4.0	7.6 3.7	8.0 4.7	8.0 4.6	7.2 3.9	6.9 3.5	7.5 3.6	7.4 3.4
13	7.3 4.1	7.5 4.1	7.8 4.0	7.9 4.4	7.0 4.1	6.7 3.3	7.3 3.3	7.2 3.4
14	7.5 4.0	7.1 3.7	7.7 3.8	7.6 4.3	6.8 3.9	6.9 3.3	7.3 3.4	7.0 3.3E
15	7.6 4.0	7.2 3.3	7.6 4.0	7.2 4.1	6.7 3.8	6.6 3.2	7.2 3.4	6.6 3.2E
16	7.4 4.0	7.4 3.4	7.3 3.9	7.1 4.0	6.8 3.8	6.5 3.1	7.1 3.3	6.6 3.9
17	7.2 3.7	7.5 3.6	6.9 3.7	7.2 3.9	6.7 3.3	6.6 3.2	6.7 3.4	7.3 4.0
18	7.5 3.6	7.3 3.7	6.7 3.6	7.6 4.1	6.9 3.3	6.6 3.2	6.7 3.1	7.2 3.9
19	7.3 3.8	7.1 3.6	6.7 3.5	7.7 4.2	7.1 3.4	6.4 3.2	6.2 3.0	7.1 3.5
20	7.0 3.5	7.0 3.6	7.0 3.7	7.4 3.6	7.2 3.4	6.1 3.3	6.3 3.5	7.0 3.4
21	6.8 3.4	6.9 3.6	7.5 4.0	7.4 3.7	7.3 3.6	6.3 3.8	6.8 3.6	6.9 3.2E
22	6.4 3.3	6.9 3.6	7.8 4.3	7.7 3.7	7.3 3.7	6.7 3.3	6.9 3.4	7.2 3.3E
23	6.3 3.2	7.2 3.8	7.7 3.9	7.5 3.8	7.2 3.7	6.4 3.3	6.9 3.3	7.3 3.5
24	6.5 3.3	7.7 4.1	7.9 3.9	7.3 3.6	7.0 3.9	6.5 3.3	7.0 3.4	7.7 3.9
25	6.8 3.5	8.1 4.3	8.4 4.1	7.5 3.5	7.0 3.8	6.4 3.2	6.8 3.2	7.8 3.8
26	6.9 3.7	7.5 4.2	8.2 4.4	7.7 3.9	6.9 3.9	6.7 3.3	6.8 3.2	7.6 3.7
27	7.1 3.8	7.5 3.8	8.0 4.2	7.3 4.1	7.0 3.9	7.2 3.6	6.9 3.2	7.3 3.6
28	7.2 3.7	7.7 3.7	7.7 4.1	7.0 3.8	7.3 4.0	7.3 3.6	7.0 3.3	7.0 3.5
29	7.4 3.6	8.0 3.9	7.6 3.9	7.0 3.8	6.9 3.7	7.1 3.5	7.1 3.3	6.5 3.2E
30	7.5 3.6	8.3 4.0	7.6 4.0		7.0 4.1	6.9 3.4	6.9 3.3	6.2 3.1E
31		7.8 4.3	7.4 3.9		7.0 3.6		6.8 3.2	

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
GRANT LINE CANAL AT TRACY ROAD BRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb.	Mar.	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	5.8 2.2	5.8 2.0	5.5 2.3	6.3 2.4	5.3 2.3	5.8 2.6	5.9 2.5	5.4 2.3	17	5.4 2.0	5.7 1.9	5.1 2.0	5.4 2.3	4.9 1.7	5.6 2.3	5.7 2.6	6.3 3.2
2	6.1 2.3	5.9 2.1	5.1 2.0	6.0 3.0	5.1 2.1	5.4 2.2	5.8 2.6	5.5 2.4	18	5.8 2.0	5.5 2.1	4.8 1.9	5.8 2.5	5.1 1.7	5.7 2.3	5.7 2.2	6.3 3.1
3	6.0 2.5	5.8 2.1	4.8 1.8	5.6 2.4	5.0 2.0	5.4 2.3	5.7 2.4	5.7 2.9	19	5.5 2.2	5.3 2.0	4.9 1.8	5.9 2.6	5.3 1.8	5.5 2.3	5.3 2.2	6.1 2.7
4	5.8 2.3	5.4 2.0	4.8 1.8	5.6 2.6	5.1 1.9	5.4 2.3	5.7 2.6	6.4 4.0	20	5.2 1.9	5.2 1.9	5.2 2.0	5.6 2.0	5.4 1.7	5.2 2.4	5.3 2.7	6.0 2.7
5	5.3 2.1	4.8 1.8	4.9 1.8	5.9 2.5	5.2 1.8	5.5 2.5	5.4 2.4	7.0 3.9	21	5.0 1.8	5.1 2.0	5.7 2.3	5.7 2.0	5.5 2.0	5.4 3.0	5.9 2.8	5.9 2.3
6	5.1 1.8	4.8 1.6	5.1 1.9	5.8 2.2	5.0 1.6	5.5 2.8	5.4 2.5	7.0 3.5	22	4.6 1.7	5.1 2.0	6.0 2.6	5.9 2.1	5.5 2.1	5.8 2.6	5.9 2.7	6.3 2.6
7	5.1 1.8	5.1 1.9	5.4 2.2	5.8 2.2	5.3 2.0	5.5 2.6	5.5 2.8	6.8 3.1	23	4.5 1.4	5.4 2.2	5.9 2.3	5.7 2.1	5.5 2.3	5.4 2.5	5.9 2.5	6.4 2.8
8	5.0 1.9	5.4 2.2	6.0 2.4	7.2 2.4	5.2 1.8	5.7 2.8	5.8 2.8	6.8 2.9	24	4.6 1.6	5.9 2.4	6.1 2.3	5.5 1.9	5.2 2.3	5.5 2.4	6.1 2.7	6.8 3.2
9	5.0 2.0	5.6 2.5	5.9 2.4	7.4 3.6	5.3 1.8	5.6 2.8	5.9 2.8	6.8 2.9	25	5.0 1.8	6.3 2.7	6.6 2.5	5.7 1.9	5.2 2.2	5.4 2.3	5.9 2.3	6.9 3.1
10	5.2 2.2	5.5 2.2	6.3 2.4	6.8 3.4	5.2 2.0	5.6 2.9	6.0 2.7	6.9 3.0	26	5.1 2.1	5.7 2.6	6.4 2.8	5.9 2.3	5.1 2.3	5.8 2.5	5.8 2.3	6.7 3.0
11	5.3 2.3	5.5 2.2	6.5 2.6	6.5 3.0	5.4 2.0	5.8 3.0	6.3 2.9	6.7 2.7	27	5.2 2.1	5.7 2.1	6.2 2.5	5.4 2.5	5.2 2.3	6.3 2.8	5.9 2.3	6.4 2.8
12	5.5 2.4	5.7 2.0	6.2 3.0	6.2 2.9	5.4 2.2	5.9 2.7	6.5 2.8	6.4 2.6	28	5.5 2.0	5.9 2.0	5.9 2.5	5.2 2.2	5.5 2.4	6.3 2.8	6.0 2.5	6.0 2.7
13	5.6 2.4	5.6 2.4	6.0 2.4	6.1 2.7	5.2 2.4	5.7 2.5	6.3 2.5	6.3 2.6	29	5.6 2.0	6.1 2.2	5.8 2.3	5.2 2.2	5.1 2.1	6.1 2.7	6.1 2.5	5.5 2.3
14	5.7 2.4	5.2 2.0	5.9 2.1	5.8 2.7	4.9 2.2	5.9 2.5	6.3 2.6	6.0 2.6	30	5.7 2.0	6.5 2.3	5.6 2.3		6.0 2.6	6.0 2.6	6.0 2.5	5.3 2.3
15	5.8 2.3	5.3 1.6	5.8 2.3	5.4 2.4	4.8 2.1	5.6 2.2	6.2 2.6	5.7 2.5	31		6.0 2.7	5.6 2.3		6.0 2.7		5.9 2.4	
16	5.6 2.3	5.6 1.7	5.4 2.2	5.3 2.3	5.1 2.1	5.5 2.0	6.2 2.5	5.6 3.1									

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
MIDDLE RIVER AT BORDEN HIGHWAY

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.5 -0.3	3.5 -0.4	3.2 -0.2	4.0 0.1	3.1 0.0	2.9 -0.5	2.8 -0.6	2.6 -0.8	17	3.2 -0.3	3.4 -0.4	2.8 -0.5	3.0 -0.1	2.9 -0.4	2.8 -0.8	2.8 -0.5	3.5 0.2
2	3.7 -0.2	3.6 -0.4	2.8 -0.5	3.7 0.7	2.8 -0.2	2.5 -0.9	2.8 -0.6	2.6 -0.7	18	3.4 -0.4	3.2 -0.3	2.5 -0.6	3.4 0.2	3.1 -0.4	2.8 -0.8	2.8 -0.9	3.4 0.2
3	3.7 0.0	3.6 -0.3	2.5 -0.6	3.3 0.1	2.7 -0.3	2.5 -0.7	2.6 -0.7	2.8 -0.1	19	3.2 -0.2	2.9 -0.4	2.5 -0.5	3.5 0.2	3.3 -0.4	2.6 -0.8	2.4 -0.9	3.3 -0.2
4	3.4 -0.2	3.1 -0.3	2.5 -0.6	3.3 0.1	2.8 -0.4	2.4 -0.8	2.6 -0.5	3.5 1.0	20	2.9 -0.5	2.9 -0.5	2.8 -0.3	3.2 -0.4	3.3 -0.4	2.4 -0.6	2.5 -0.3	3.2 -0.3
5	2.9 -0.5	2.6 -0.6	2.6 -0.6	3.5 0.2	2.9 -0.4	2.5 -0.6	2.5 -0.7	4.1 0.9	21	2.7 -0.6	2.8 -0.4	3.4 0.0	3.3 -0.4	3.5 -0.2	2.6 0.1	3.0 -0.3	3.1 -0.7
6	2.7 -0.8	2.4 -0.8	2.8 -0.5	3.4 -0.1	2.8 -0.6	2.6 -0.2	2.5 -0.5	4.0 0.5	22	2.3 -0.6	2.8 -0.8	3.6 0.2	3.6 -0.3	3.5 -0.1	3.0 -0.4	3.0 -0.4	3.4 -0.4
7	2.6 -0.8	2.8 -0.5	3.1 -0.2	3.5 0.1	3.2 -0.2	2.7 -0.4	2.6 -0.2	3.9 0.1	23	2.3 -0.9	3.1 -0.1	3.6 -0.1	3.4 -0.5	3.5 0.1	2.7 -0.5	3.0 -0.6	3.6 -0.2
8	2.6 -0.6	3.1 -0.1	3.6 0.0	4.8 1.3	3.0 -0.3	2.8 -0.2	2.9 -0.2	4.0 -0.2	24	2.4 -0.7	3.6 0.2	3.8 0.1	3.2 -0.5	3.3 0.0	2.8 -0.6	3.2 -0.4	3.9 0.2
9	2.6 -0.5	3.4 0.2	3.6 0.0	5.1 1.3	3.2 -0.2	2.8 -0.1	3.1 -0.2	4.0 -0.1	25	2.8 -0.4	4.0 0.4	4.3 0.1	3.5 -0.5	3.2 0.0	2.6 -0.8	3.0 -0.8	4.0 0.1
10	2.8 -0.3	3.3 -0.1	3.9 0.0	4.4 1.0	3.1 -0.2	2.8 -0.1	3.2 -0.4	4.1 -0.1	26	2.8 -0.2	3.5 -0.3	4.1 0.4	3.6 -0.1	3.1 0.2	2.9 -0.6	2.9 -0.9	3.8 -0.1
11	2.9 -0.1	3.2 -0.3	4.2 0.2	4.0 0.7	3.3 -0.2	3.0 -0.1	3.4 -0.2	3.9 -0.4	27	3.0 -0.3	3.4 -0.3	3.9 0.1	3.2 0.2	3.3 0.2	3.4 -0.2	3.0 -0.8	3.6 -0.2
12	3.2 0.0	3.5 -0.3	3.8 0.6	3.7 0.5	3.4 0.1	3.0 -0.4	3.6 -0.3	3.6 -0.5	28	3.2 -0.3	3.7 -0.4	3.6 0.1	2.9 -0.2	3.5 0.2	3.3 -0.4	3.1 -0.5	3.2 -0.3
13	3.2 0.0	3.4 0.1	3.6 -0.1	3.7 0.3	3.1 0.3	2.9 -0.5	3.4 -0.6	3.4 -0.5	29	3.4 -0.4	3.9 -0.2	3.5 -0.1	2.9 -0.1	3.1 -0.1	3.1 -0.5	3.2 -0.6	2.7 -0.7
14	3.4 0.0	3.0 -0.3	3.5 -0.3	3.3 0.3	2.9 0.1	3.1 -0.6	3.5 -0.5	3.1 -0.5	30	3.5 -0.4	4.2 0.0	3.3 -0.1		3.2 0.3	3.0 -0.6	3.0 -0.6	2.4 -0.7
15	3.4 -0.1	3.1 -0.8	3.4 -0.1	3.0 0.0	2.8 0.0	2.8 -0.9	3.4 -0.6	2.9 -0.6	31		3.8 0.3	3.3 -0.1		3.1 -0.3		2.9 -0.7	
16	3.3 -0.1	3.3 -0.6	3.1 -0.2	2.9 -0.1	3.0 0.0	2.7 -1.1	3.2 -0.6	2.8 0.1									

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
SOUTH FORK MOKELUMNE RIVER AT NEW HOPE BRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb.	Mar.	Apr	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	3.6 0.0	3.7 -0.1	3.4 0.1	4.3 0.7	3.4 0.6	3.4 0.9	3.1 0.1	3.0 -0.3	17	3.2 -0.1	3.5 -0.1	2.9 -0.2	3.2 0.2	3.3 0.0	3.2 -0.1	3.1 0.3	4.0 0.7
2	4.0 0.2	3.8 -0.1	3.0 -0.2	3.9 1.2	3.1 0.3	3.0 0.6	3.0 0.1	3.0 -0.1	18	3.5 -0.1	3.3 0.0	2.6 -0.3	3.6 0.4	3.5 0.4	3.1 -0.1	3.2 -0.4	3.9 0.7
3	3.9 0.4	3.6 0.0	2.6 -0.4	3.7 0.8	3.0 0.2	3.0 0.5	2.9 -0.1	3.3 0.5	19	3.3 0.1	3.0 -0.1	2.7 -0.3	3.5 0.2	3.9 1.1	3.0 -0.2	2.8 -0.3	3.7 0.4
4	3.6 0.2	3.2 0.0	2.6 -0.4	3.4 0.2	3.1 0.2	2.8 0.5	2.9 0.1	4.0 1.5	20	2.9 -0.2	3.0 -0.2	3.0 -0.1	3.5 0.5	3.9 0.9	2.8 0.0	3.0 0.3	3.6 -0.2
5	3.1 -0.1	2.6 -0.3	2.8 -0.3	3.7 0.3	3.2 0.2	2.9 0.6	2.8 -0.1	4.6 1.6	21	2.7 -0.2	2.9 -0.1	3.7 0.3	3.6 0.5	4.0 1.1	3.2 0.7	3.4 0.2	3.5 -0.2
6	2.9 -0.4	2.6 -0.5	2.9 -0.2	3.5 0.1	3.1 0.4	3.0 0.8	2.9 0.1	4.5 1.2	22	2.3 -0.5	3.0 -0.1	3.8 0.5	3.8 0.5	4.0 1.1	3.4 0.2	3.4 0.2	3.8 0.1
7	2.8 -0.3	3.0 -0.3	3.3 0.1	3.7 0.4	3.6 0.2	3.2 0.6	3.1 0.4	4.4 0.9	23	2.3 -0.6	3.2 0.1	3.7 0.2	3.5 0.2	4.1 1.4	3.1 0.2	3.4 0.1	4.0 0.3
8	2.6 -0.2	3.2 0.1	3.8 0.3	5.0 1.9	3.2 0.1	3.3 0.9	3.3 0.5	4.4 0.5	24	2.5 -0.5	3.8 0.4	4.1 0.6	3.6 0.2	3.8 1.2	3.2 0.0	3.6 0.2	4.3 0.7
9	2.8 -0.1	3.5 0.4	3.7 0.3	5.5 1.9	3.5 0.3	3.4 0.9	3.6 0.4	4.5 0.5	25	2.9 -0.2	4.1 0.6	4.5 0.9	3.8 0.2	3.8 1.3	3.1 -0.1	3.4 -0.1	4.3 0.5
10	3.0 0.1	3.4 0.2	4.1 0.6	5.8 2.5	3.4 0.2	3.4 0.9	3.6 0.3	4.6 0.5	26	2.9 0.0	3.6 0.1	4.4 0.9	4.0 0.6	3.7 1.3	3.4 0.2	3.4 -0.1	4.1 0.4
11	3.1 0.3	3.4 0.0	4.5 1.1	4.4 1.9	3.7 0.2	3.5 0.9	3.9 0.5	4.3 0.2	27	3.1 -0.1	3.6 0.0	4.3 0.8	3.5 0.8	4.0 1.2	3.9 0.5	3.5 -0.1	3.8 0.3
12	3.4 0.4	3.7 0.4	3.9 1.1	4.1 1.5	3.7 0.5	3.6 0.6	4.1 0.4	4.0 0.1	28	3.3 -0.1	3.9 0.0	4.0 0.8	3.2 0.5	4.1 1.4	3.7 0.4	3.5 0.2	3.5 0.2
13	3.4 0.3	3.2 0.4	3.8 0.2	3.9 1.0	3.5 0.7	3.5 .4	3.9 0.1	3.8 0.1	29	3.5 -0.1	4.1 0.1	3.8 0.6	3.3 0.5	3.8 1.3	3.5 0.3	3.5 0.2	3.0 -0.2
14	3.5 0.3	3.1 -0.4	3.8 0.2	3.6 0.6	3.2 0.6	3.6 0.2	4.0 0.3	3.6 0.1	30	3.6 -0.1	4.4 0.2	3.6 0.5		3.8 1.5	3.3 0.2	3.3 0.0	2.9 -0.2
15	3.6 0.2	3.2 -0.5	3.6 0.2	3.2 0.4	3.3 0.5	3.3 -0.1	3.8 0.3	3.3 0.0	31		3.9 0.5	3.5 0.5		3.6 1.0		3.1 -0.1	
16	3.4 0.2	3.4 -0.3	3.2 0.1	3.1 0.2	3.2 0.0	3.0 -0.4	3.5 0.0	3.3 0.6									

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
MOKELUMNE RIVER NEAR THORNTON

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.4 -0.1	3.5 -0.2	3.2 -0.1	4.2 0.6	3.4 0.7	3.5 1.6	3.1 0.3	2.9 -0.3	17	3.1 -0.2	3.3 -0.2	2.9 -0.2	3.3 0.6	3.4 0.9	3.2 0.0	3.1 0.3	3.8 0.6
2	3.7 0.1	3.6 -0.2	2.8 -0.3	3.8 1.3	3.1 0.3	3.1 1.2	3.0 0.3	2.9 -0.2	18	3.4 -0.2	3.1 -0.2	2.6 -0.3	3.6 0.7	3.6 1.1	3.2 0.1	3.2 -0.4	3.7 0.6
3	3.6 0.4	3.5 0.0	2.5 -0.5	3.7 1.0	3.1 0.2	3.1 1.1	2.9 0.1	3.2 0.5	19	3.2 0.1	2.4 -0.3	2.6 -0.3	3.6 0.5	4.0 1.6	3.0 -0.1	2.8 -0.3	3.6 0.2
4	3.4 0.1	3.1 -0.1	2.5 -0.5	3.9 0.4	3.1 0.2	2.9 1.0	2.9 0.2	3.8 1.6	20	2.8 -0.3	2.8 -0.4	2.9 -0.1	3.6 0.8	3.9 1.4	2.8 0.1	3.0 0.3	3.4 -0.3
5	3.0 -0.2	2.6 -0.4	2.8 -0.2	3.7 0.5	3.2 0.3	3.0 1.0	2.9 0.1	4.4 1.6	21	2.6 -0.3	2.7 -0.3	3.6 0.2	3.7 0.7	4.0 1.5	3.2 0.7	3.3 0.2	3.3 -0.3
6	2.8 -0.4	2.5 -0.5	2.8 -0.3	3.6 0.8	3.1 0.5	3.1 1.2	2.9 0.2	4.3 1.2	22	2.3 -0.6	2.8 -0.3	3.7 0.5	3.8 0.7	4.0 1.5	3.4 0.3	3.3 0.1	3.6 0.0
7	2.7 -0.4	2.8 -0.3	3.1 -0.1	3.7 0.7	3.6 0.3	3.3 1.1	3.1 0.5	4.4 1.3	23	2.3 -0.7	3.0 -0.1	3.6 0.2	3.5 0.3	4.1 1.8	3.1 0.3	3.3 0.1	3.7 0.1
8	2.7 -0.3	3.1 0.0	3.6 0.2	5.0 0.7	3.3 1.1	3.4 1.3	3.4 0.6	4.2 0.6	24	2.4 -0.6	3.6 0.2	3.9 0.6	3.6 0.3	3.9 1.6	3.2 0.1	3.5 0.2	4.0 0.6
9	2.7 -0.2	3.3 0.2	3.5 0.2	6.3	3.6 1.1	3.4 1.3	3.5 0.5	4.3 0.6	25	2.8 -0.3	3.8 0.5	4.3 1.0	3.8 0.4	3.8 1.6	3.1 0.1	3.3 -0.1	4.1 0.4
10	2.9 0.0	3.2 0.1	3.9 0.2	8.3	3.5 1.4	3.4 1.3	3.6 0.4	4.4 0.6	26	2.8 -0.1	3.4 0.0	4.2 1.0	4.0 0.8	3.8 1.7	3.4 0.3	3.3 -0.1	3.9 0.3
11	3.0 0.2	3.2 -0.1	4.3 0.5	7.1	3.7 1.1	3.6 1.2	3.8 0.6	4.2 0.3	27	3.0 -0.2	3.4 0.0	4.2 1.1	3.5 1.0	4.0 1.6	3.8 0.6	3.4 -0.1	3.7 0.2
12	3.2 0.3	3.5 -0.1	3.8 1.1	5.4	3.7 1.1	3.6 0.9	4.0 0.6	3.9 0.2	28	3.2 -0.2	3.7 -0.1	3.9 1.2	3.2 0.6	4.1 2.0	3.7 0.7	3.5 0.2	3.4 0.1
13	3.3 0.3	3.0 0.3	3.7 0.3	4.2 3.3	3.8 1.2	3.5 0.7	3.8 0.2	3.8 0.1	29	3.3 -0.2	3.8 0.0	3.8 0.7	3.3 0.5	3.9 2.2	3.5 0.7	3.5 0.1	2.9 -0.3
14	3.4 0.2	2.9 -0.5	3.7 0.3	3.8 2.2	4.2 2.6	3.6 0.4	3.8 0.4	3.5 0.0	30	3.4 -0.2	4.0 0.1	3.5 0.6		3.9 2.2	3.4 0.5	3.2 0.0	2.8 -0.3
15	3.4 0.2	3.0 -0.5	3.5 0.2	3.3 1.5	4.1 2.8	3.3 0.1	3.7 0.4	3.3 -0.1	31		3.7 0.4	3.4 0.5		3.7 1.5		3.1 -0.2	
16	3.3 0.2	3.2 -0.4	3.2 0.0	3.2 0.9	3.5 1.4	3.1 -0.2	3.5 0.1	3.2 0.6									

Crest Stages:		
	Date	2-10-60
	Time	4:00 AM
	Stage	8.7

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 300

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

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	4.4 1.9	4.4 1.8	4.2 2.0	NR NR	4.4 2.3	4.6 2.7	4.3 1.9	3.9 1.4	17	4.1 1.8	4.4 1.7		4.0 1.8	4.0 1.6	4.2 1.7	4.2 2.0	4.7 2.2
2	4.7 2.1	4.5 1.9	3.8 1.7	NR NR	4.1 2.0	4.3 2.5	4.2 1.9	3.9 1.5	18	4.4 1.7	4.2 1.8		4.3 2.0	4.4 2.0	4.2 1.7	4.2 1.4	4.6 2.3
3	4.6 2.3	4.4 2.0	3.5 1.5	NR NR	4.0 1.9	4.3 2.4	4.0 1.7	4.1 2.1	19	4.2 2.0	4.0 1.7		4.3 1.8	5.2 3.1	4.0 1.5	3.8 1.4	4.5 2.1
4	4.4 2.1	4.1 1.9	3.5 1.4	NR NR	4.1 1.8	4.1 2.3	4.0 1.8	4.8 3.0	20	3.9 1.7	3.9 1.6		4.5 1.9	5.1 2.9	3.8 1.7	3.9 2.0	4.4 1.6
5	4.0 1.9	3.6 1.6	3.7 1.4	4.5 2.0	4.2 1.9	4.2 2.3	3.9 1.6	5.4 3.1	21	3.7 1.6	3.8 1.7		4.7 2.4	5.2 3.0	4.1 2.3	4.3 2.0	4.3 1.7
6	3.8 1.6	3.4 1.4	3.8 1.4	4.4 1.8	4.2 2.3	4.2 2.5	4.0 1.8	5.3 2.9	22	3.3 1.3	3.8 1.6		4.8 2.4	5.1 3.0	4.3 1.9	4.3 1.9	4.6 1.9
7	3.8 1.6	3.8 1.6	4.1 1.6	4.5 2.1	4.9 2.0	4.3 2.4	4.1 2.1	5.2 2.6	23	3.3 1.2	4.1 1.8	NO	4.4 2.1	5.2 3.3	4.0 1.9	4.3 1.9	4.7 2.0
8	3.8 1.6	4.1 1.8	4.6 2.1	5.9 2.1	4.1 1.7	4.4 2.7	4.3 2.2	5.1 2.4	24	3.4 1.3	4.5 2.0	RE	4.5 2.2	5.0 3.1	4.1 1.8	4.5 2.0	5.1 2.4
9	3.7 1.6	4.3 2.0	4.4 2.1	6.4 3.6	4.3 1.7	4.5 2.7	4.5 2.2	5.2 2.4	25	3.7 1.5	4.8E 2.1E	CORD	4.7 2.2	4.9 3.2	4.0 1.7	4.3 1.8	5.2 2.4
10	3.9 1.8	4.2 2.0	4.9 2.1	5.9 5.0	4.2 1.9	4.5 2.7	4.6 2.1	5.3 2.4	26	3.8 1.7	4.4 2.0		4.9 2.5	4.8 3.2	4.3 1.9	4.3 1.8	5.0 2.2
11	4.0 2.0	4.2 2.0	5.2 2.4	5.4 4.2	4.4 1.8	4.6 2.7	4.7 2.3	5.0 2.1	27	3.9 1.8	4.4 1.9		4.5 2.6	5.0 3.1	4.8 2.3	4.4 1.8	4.7 2.1
12	4.2 2.0	4.4 1.8	NR NR	5.0 3.5	4.4 2.1	4.6 2.4	5.0 2.3	4.8 2.0	28	4.1 1.8	4.6 2.0		4.2 2.3	5.2 3.2	4.7 2.2	4.5 2.0	4.5 2.0
13	4.3 2.1	4.0 2.2	NR NR	4.7 2.8	4.2 2.3	4.5 2.3	4.7 2.0	4.6 1.9	29	4.3 1.8	4.8 2.2		4.3 2.2	4.9 3.1	4.5 2.1	4.6 2.0	4.1 1.6
14	4.4 2.1	3.9 1.5	NR NR	4.4 2.5	4.0 2.0	4.6 2.0	4.8 2.2	4.4 1.8	30	4.4 1.8	5.0 2.4			5.0 3.3	4.4 2.1	4.4 1.9	3.8 1.5
15	4.4 2.1	4.0 1.4	NR NR	4.0 2.2	4.0 2.0	4.3 1.7	4.7 2.1	4.1 1.7	31		4.6 2.0			4.8 2.8		4.2 1.7	
16	4.3 2.1	4.2 1.6	NR NR	3.9 1.8	3.9 1.6	4.0 1.5	4.5 1.9	4.1 2.2									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record E - Estimated

NOTE: Single daily values indicate daily mean stage only.

TABLE 301

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

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	7.2 3.2	7.2 3.0	6.8 3.2	7.6 3.6	6.7 3.6	6.6 3.1	6.4 3.0	6.4 2.9	17	6.7 3.1	7.0 3.0	6.3 2.9	6.6 3.4	6.7 3.2	6.5 2.8	6.6 3.2	7.3 3.9
2	7.5 3.4	7.3 3.0	6.4 2.9	7.2 4.2	6.4 3.3	6.1 2.8	6.3 3.0	6.4 3.0	18	7.0 3.1	6.8 3.1	6.0 2.9	7.0 3.7	6.9 3.2	6.5 2.8	6.6 2.6	7.2 3.9
3	7.3 3.6	7.1 3.2	6.1 2.8	6.9 3.6	6.4 3.2	6.1 2.9	6.2 2.9	6.6 3.6	19	6.7 3.3	6.5 3.0	6.1 2.9	7.0 3.6	7.1 3.3	6.3 2.8	6.2 2.7	7.1 3.5
4	7.1 3.3	6.7 3.1	6.1 2.8	6.8 3.6	6.4 3.2	6.0 2.9	6.2 3.1	7.3 4.6	20	6.4 3.0	6.4 3.0	6.4 3.1	6.8 3.0	7.1 3.2	6.1 3.0	6.3 3.3	7.0 3.2
5	6.6 3.1	6.1 2.9	6.2 2.9	7.0 3.6	6.5 3.2	6.1 3.0	6.2 2.9	7.9 4.6	21	6.2 3.0	6.3 3.1	7.1 3.5	6.9 3.1	7.2 3.4	6.5 3.8	6.8 3.3	6.9 3.0
6	6.4 2.8	6.0 2.7	6.3 3.0	6.9 3.3	6.4 2.9	6.2 3.4	6.3 3.1	7.8 4.2	22	5.8 2.8	6.4 3.1	7.2 3.7	7.2 3.1	7.2 3.5	6.8 3.2	6.8 3.2	7.2 3.2
7	6.3 2.9	6.4 3.0	6.7 3.4	7.0 3.6	6.7 3.4	6.4 3.2	6.4 3.4	7.7 3.8	23	5.8 2.6	6.7 3.4	7.1 3.3	6.9 2.9	7.3 3.8	6.5 3.2	6.8 3.0	7.4 3.4
8	6.2 3.0	6.7 3.4	7.2 3.5	8.5 4.8	6.6 3.2	6.5 3.5	6.7 3.4	NR NR	24	6.0 2.8	7.2 3.6	7.4 3.6	6.9 3.0	7.0 3.7	6.5 3.0	6.9 3.2	7.7 3.8
9	6.3 3.1	7.0 3.7	7.1 3.5	8.7 4.5	6.8 3.4	6.5 3.5	6.9 3.4	NR NR	25	6.4 3.1	7.5 3.8	7.8 3.8	7.1 3.4	7.0 3.8	6.4 2.9	6.8 2.8	7.8 3.7
10	6.5 3.4	6.9 3.4	7.5 3.7	7.9 4.1	6.7 3.4	6.6 3.5	7.0 3.2	NR NR	26	6.4 3.3	7.1 3.2	7.6 3.5	7.3 3.4	6.9 3.8	6.7 3.1	6.7 2.8	7.6 3.6
11	6.6 3.5	6.8 3.2	7.8 4.1	7.6 4.1	7.0 3.6	6.7 3.5	7.2 3.4	NR NR	27	6.6 3.2	7.1 3.1	7.5 3.5	6.8 3.7	7.1 3.8	7.2 3.4	6.8 2.8	7.3 3.5
12	6.8 3.6	7.1 3.6	7.3 4.1	7.3 4.0	7.1 3.6	6.8 3.2	7.4 3.3	NR NR	28	6.8 3.1	7.3 3.2	7.2 3.5	6.6 3.3	7.3 3.8	7.0 3.2	6.9 3.1	7.0 3.4
13	6.9 3.5	6.8 2.9	7.2 3.3	7.2 3.8	6.8 3.9	6.7 3.1	7.2 3.0	NR NR	29	7.0 3.0	7.5 3.2	7.1 3.3	6.6 3.4	6.9 3.5	6.8 3.0	6.9 3.1	6.4 3.0
14	7.0 3.5	6.6 2.9	7.1 3.2	6.9 3.7	6.5 3.6	6.9 2.9	7.3 3.1	NR NR	30	7.1 3.0	7.8 3.4	6.9 3.3		7.0 3.9	6.6 3.0	6.7 3.0	6.3 3.0
15	7.1 3.5	6.7 2.7	7.0 3.3	6.5 3.5	6.6 3.6	6.6 2.7	7.2 3.1	6.6 3.1	31		7.4 3.7	6.8 3.3		6.8 3.3		6.5 2.9	
16	6.9 3.5	6.9 2.8	6.6 3.2	6.5 3.4	6.6 3.4	6.4 2.5	6.9 3.0	6.6 3.8									

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
DELTA CROSS CHANNEL AT WALNUT GROVE

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb.	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	NR NR	NR NR	4.7 1.9	5.8 2.5	5.0 2.4	5.0 2.9	4.6 2.0	4.4 1.5	17	NR NR	4.9 1.6	4.3 1.6	4.6 1.7	4.6 1.5	4.7 1.7	4.7 2.0	5.3 2.3
2	NR NR	NR NR	4.3 1.5	5.3 3.0	4.6 2.1	4.6 2.7	4.5 1.9	4.4 1.6	18	NR NR	4.7 1.6	4.0 1.5	4.9 1.9	4.8 2.0	4.6 1.7	4.7 1.4	5.2 2.4
3	NR NR	NR NR	4.0 1.3	5.2 2.4	4.5 1.9	4.5 2.6	4.4 1.8	4.7 2.2	19	NR NR	4.4 1.5	4.1 1.4	4.8 1.7	5.5 3.2	4.4 1.5	4.3 1.5	5.1 2.1
4	NR NR	NR NR	4.0 1.2	4.7 1.7	4.6 1.9	4.4 2.5	4.4 1.9	5.4 3.2	20	NR NR	4.3 1.5	4.4 1.6	5.1 2.0	5.4 3.1	4.3 1.7	4.5 2.1	4.9 1.6
5	NR NR	NR NR	4.2 1.3	5.0 1.8	4.6 2.0	4.4 2.5	4.4 1.7	6.0 3.2	21	NR NR	4.2 1.5	5.1 1.9	5.2 2.5	5.6 3.2	4.6 2.4	4.9 2.0	4.8 1.7
6	NR NR	NR NR	4.3 1.4	4.8 1.6	4.6 2.5	4.6 2.7	4.4 1.9	5.9 2.9	22	NR NR	4.2 1.5	5.1 2.2	5.3 2.4	5.6 3.1	4.8 1.9	4.9 1.9	5.2 1.9
7	NR NR	NR NR	4.6 1.7	5.0 1.8	5.3 1.7	4.8 2.6	4.6 2.1	5.8 2.5	23	NR NR	4.6 1.7	5.1 2.0	5.0 2.1	5.7 3.4	4.6 1.9	4.9 1.9	5.3 2.1
8	NR NR	NR NR	5.1 2.0	6.4 3.4	4.6 1.6	4.9 2.8	4.8 2.2	5.8 2.2	24	NR NR	5.1 2.0	5.5 2.4	5.1 2.2	5.4 3.2	4.7 1.7	5.0 2.0	5.7 2.4
9	NR NR	NR NR	5.0 1.9	6.8 3.4	4.8 1.8	5.0 2.8	5.0 2.2	5.8 2.2	25	NR NR	5.5 2.3	5.9 2.7	5.4 2.5	5.4 3.3	4.6 1.7	4.9 1.8	5.7 2.3
10	NR NR	NR NR	5.5 2.3	6.0 4.0	4.7 1.8	5.0 2.8	5.1 2.1	5.9 2.2	26	NR NR	5.0 1.8	5.8 2.6	5.5 2.5	5.3 3.2	4.9 1.9	4.8 1.8	5.5 2.2
11	NR NR	NR NR	5.9 2.3	5.7 3.4	5.0 1.7	5.1 2.8	5.3 2.3	5.6 1.9	27	NR NR	5.0 1.7	5.8 2.7	5.0 2.7	5.6 3.2	5.3 2.2	4.9 1.8	5.2 2.1
12	NR NR	NR NR	5.3 2.7	5.3 3.0	5.0 2.0	5.1 2.5	5.6 2.2	5.3 1.8	28	NR NR	5.3 1.8	5.5 2.7	4.8 2.3	5.7 3.3	5.2 2.2	5.0 2.0	5.0 2.0
13	NR NR	NR NR	5.2 2.0	5.2 2.5	4.8 2.2	5.1 2.3	5.3 1.9	5.2 1.8	29	NR NR	5.4 1.8	5.3 2.5	4.8 2.3	5.4 3.2	5.0 2.2	5.1 2.1	4.5 1.6
14	NR NR	NR NR	5.2 2.0	4.9 2.1	4.5 2.0	5.1 2.0	5.4 2.1	4.9 1.8	30	NR NR	5.7 1.9	5.1 2.4		5.5 3.5	4.8 2.1	4.8 1.9	4.3 1.6
15	NR NR	NR NR	4.9 1.9	4.5 1.9	4.6 2.0	4.8 1.7	5.3 2.1	4.7 1.7	31		5.3 2.2	5.0 2.4		5.2 3.0		4.6 1.7	
16	NR NR	NR NR	4.6 1.8	4.4 1.7	4.5 1.5	4.6 1.4	5.0 1.8	4.6 2.2									

Crest Stages:		
	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 303

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER AT WALNUT GROVE

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	3.6 0.3	3.6 0.2	3.3 0.4	4.5 1.0	3.7 1.0	3.7 1.6	3.3 0.6	3.1 0.1	17	3.2 0.2	3.5 0.2	2.9 0.2	5.5 3.8	5.3 3.4	3.4 0.2	3.4 0.7	4.0 0.9
2	4.0 0.5	3.7 0.2	2.9 0.1	4.1 1.6	3.3 0.7	3.3 1.3	3.2 0.5	3.5 0.2	18	3.5 0.2	3.3 0.2	2.6 0.1	5.2 3.3	5.1 2.0	3.3 0.3	3.4 0.1	3.9 1.0
3	3.9 0.7	3.6 0.3	2.6 -0.1	4.0 1.3	3.2 0.5	3.2 1.2	3.1 0.4	3.5 0.8	19	3.3 0.4	3.0 0.2	2.7 0.0	4.8 2.5	4.3 1.8	3.1 0.1	3.1 0.1	3.8 0.8
4	3.6 0.5	3.2 0.3	2.6 -0.2	4.6 2.8	3.2 0.5	3.0 1.1	3.1 0.5	4.2 1.8	20	3.0 0.2	3.0 0.1	3.0 0.2	3.8 1.3	4.2 1.7	3.0 0.3	3.3 0.7	3.7 0.3
5	3.1 0.3	2.7 0.0	2.8 -0.1	4.8 2.8	3.3 0.6	3.1 1.1	3.1 0.4	4.8 1.9	21	2.8 0.1	2.8 0.2	3.7 0.5	3.9 1.2	4.3 1.8	3.3 0.9	3.6 0.7	3.5 0.3
6	2.9 0.0	2.5 -0.2	2.9 0.0	4.6 2.6	3.3 1.1	3.2 1.3	3.2 0.5	4.7 1.6	22	2.3 -0.2	2.9 0.1	3.8 0.8	4.1 1.0	4.3 1.7	3.6 0.5	3.6 0.5	3.9 0.5
7	2.8 0.0	2.9 0.0	3.2 0.3	4.8 2.7	4.0 2.5	3.5 1.1	3.4 0.8	4.6 1.1	23	2.3 -0.3	3.2 0.3	3.7 0.6	3.8 0.7	4.5 1.9	3.3 0.4	3.7 0.5	4.1 0.7
8	2.7 0.1	3.2 0.3	3.7 0.6	6.4 3.7	5.3 4.0	3.6 1.4	3.6 0.8	4.6 0.9	24	2.5 -0.2	3.7 0.6	4.2 1.0	3.9 0.7	4.2 1.8	3.3 0.3	3.8 0.6	4.4 1.0
9	2.8 0.2	3.4 0.6	3.6 0.5	7.3	6.6 5.4	3.7 1.4	3.8 0.8	4.6 0.8	25	2.9 0.1	4.1 0.9	4.6 1.3	4.2 1.1	4.2 1.8	3.2 0.2	3.7 0.4	4.5 0.8
10	3.0 0.4	3.3 0.5	4.1 0.8	8.5 7.4	7.1 6.2	3.7 1.4	3.9 0.7	4.7 0.9	26	2.9 0.3	3.6 0.4	4.6 1.2	4.3 1.2	4.1 1.8	3.6 0.5	3.6 0.4	4.2 0.8
11	3.1 0.6	3.3 0.3	4.5 1.3	8.6 7.5	7.2 5.8	3.9 1.4	4.1 0.9	4.4 0.6	27	3.1 0.2	3.7 0.3	4.6 1.2	3.8 1.2	4.2 1.8	4.1 0.8	3.7 0.4	4.0 0.7
12	3.3 0.6	3.6 0.7	3.9 1.3	8.3 7.4	6.8 5.3	3.9 1.0	4.4 0.9	4.1 0.5	28	3.3 0.2	3.9 0.4	4.3 1.3	3.6 0.9	4.5 1.9	3.9 0.8	3.8 0.6	3.7 0.6
13	3.4 0.6	3.1 -0.1	3.9 0.6	7.8 7.0	6.3 5.0	3.8 0.8	4.2 0.6	3.9 0.4	29	3.5 0.2	4.1 0.4	4.1 1.0	3.6 0.8	4.2 1.8	3.7 0.8	3.8 0.7	3.2 0.2
14	3.5 0.5	3.0 -0.1	3.9 0.6	7.3 6.4	5.9 4.6	3.9 0.6	4.2 0.8	3.6 0.4	30	3.6 0.2	4.3 0.5	3.8 1.0		4.3 2.1	3.6 0.7	3.5 0.5	3.1 0.2
15	3.6 0.5	3.1 -0.2	3.6 0.5	6.8 5.8	5.9 4.5	3.5 0.3	4.1 0.7	3.3 0.3	31		3.9 0.8	3.8 1.0		4.0 1.6		3.3 0.4	
16	3.4 0.5	3.3 0.0	3.3 0.4	6.1 4.8	5.7 4.0	3.3 0.0	3.8 0.5	3.3 0.9									

Crest Stages:		
	Date	2-9-60
	Time	1:45 PM
	Stage	8.3

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 304

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
MIDDLE RIVER AT BACON ISLAND

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	6.6 2.7	6.6 2.5	6.2 2.7	7.1 3.1	6.1 3.0	6.0 2.6	5.9 2.5	5.9 2.4	17	6.2 2.6	6.4 2.5	5.7 2.4	6.1 2.9	6.1 2.6	5.9 2.2	5.9 2.7	6.8 3.4
2	6.9 2.8	6.7 2.5	5.9 2.4	6.7 3.7	5.9 2.8	5.6 2.2	5.8 NR	5.9 2.5	18	6.5 2.6	6.2 2.6	5.4 2.3	6.4 3.2	6.3 2.6	5.9 2.3	6.0 2.2	6.7 3.4
3	6.8 3.1	6.6 2.6	5.5 2.3	6.3 3.1	5.8 2.7	5.6 2.3	NR NR	6.1 3.1	19	6.2 2.9	5.9 2.5	5.5 2.4	6.5 3.1	6.5 2.7	5.7 2.3	5.6 2.2	6.6 2.9
4	6.6 2.8	6.1 2.6	5.5 2.3	6.3 3.1	5.9 2.7	5.5 2.3	NR NR	6.7 4.1	20	5.9 2.5	5.9 2.5	5.8 2.6	6.2 2.5	6.5 2.6	5.6 2.4	5.8 2.8	6.5 2.7
5	6.1 2.6	5.6 2.4	5.7 2.4	6.5 3.1	6.0 2.6	5.6 2.5	NR NR	7.3 4.1	21	5.6 2.5	5.8 2.6	6.5 3.0	6.3 2.5	6.6 2.9	5.9 3.2	6.2 2.8	6.4 2.5
6	5.8 2.3	5.5 2.2	5.8 2.5	6.3 2.8	5.8 2.4	5.7 2.9	NR NR	7.3 3.6	22	5.3 2.3	5.9 2.6	6.6 3.2	6.6 2.6	6.6 3.0	6.2 2.7	6.2 2.7	6.7 2.7
7	5.8 2.4	5.9 2.5	6.1 2.8	6.5 3.1	6.2 2.9	5.9 2.7	5.7 2.8	7.2 3.3	23	5.3 2.1	6.2 2.9	6.5 2.8	6.4 2.4	6.7 3.2	5.9 2.6	6.2 2.5	6.8 2.9
8	5.7 2.5	6.2 2.9	6.6 3.0	7.9 4.3	6.0 2.7	5.9 2.9	5.9 2.8	7.2 3.0	24	5.5 2.3	6.6 3.2	6.8 3.0	6.3 2.4	6.4 3.1	6.0 2.5	6.4 2.7	7.2 3.3
9	5.8 2.6	6.4 3.2	6.6 2.9	8.1 4.3	6.2 2.9	6.0 3.0	6.2 2.7	7.3 3.0	25	5.9 2.6	7.0 3.3	6.9 3.3	6.6 2.4	6.4 3.3	5.9 2.4	6.2 2.3	7.2 3.2
10	6.0 2.8	6.3 2.9	7.0 3.2	7.3 4.0	6.2 2.9	6.0 3.0	6.4 2.7	7.4 3.0	26	5.9 2.8	6.5 2.7	6.5 3.0	6.7 2.9	6.3 3.3	6.2 2.6	6.1 2.2	7.0 3.0
11	6.0 3.0	6.3 2.7	7.2 3.6	7.0 3.6	6.5 3.1	6.2 3.0	6.5 2.8	7.2 2.7	27	6.1 2.7	6.5 2.5	6.4 3.0	6.2 3.1	6.5 3.3	6.7 2.9	6.2 2.3	6.7 2.9
12	6.3 3.1	6.6 3.1	6.8 3.6	6.7 3.4	6.5 3.4	6.2 2.7	6.8 2.7	6.9 2.7	28	6.3 2.6	6.8 2.7	6.3 3.0	6.0 2.8	6.7 3.3	6.5 2.7	6.3 2.6	6.4 2.8
13	6.3 3.0	6.3 2.5	6.6 2.9	6.7 3.3	6.3 3.1	6.2 2.5	6.7 2.5	6.7 2.7	29	6.5 2.6	7.0 2.8	6.3 2.8	6.0 2.8	6.3 2.9	6.3 2.6	6.3 2.6	5.9 2.5
14	6.5 3.0	6.0 2.2	6.6 2.6	6.3 3.2	6.0 3.1	6.3 2.4	6.7 2.6	6.4 2.7	30	6.6 2.6	7.3 2.8	6.3 2.8		6.4 3.3	6.1 2.5	6.1 2.4	5.7 2.5
15	6.5 3.0	6.1 2.3	6.4 2.8	6.0 3.0	6.0 3.1	6.0 2.1	6.6 2.6	6.1 2.6	31		6.8 3.2	6.3 2.8		6.2 2.7		6.0 2.4	
16	6.6 2.9	6.3 2.3	6.1 2.7	5.9 2.9	6.1 2.9	5.9 1.9	6.4 2.4	6.1 3.3									

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
SACRAMENTO RIVER AT CLARKSBURG

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June
1	7.1 4.2	7.1 4.1	6.8 4.4	8.3 5.7	7.5 5.8	9.3 8.4	7.4 5.7	6.7 4.7	17	NR NR	NR NR	6.4 4.4	11.7	11.5 10.5	7.1 5.1	7.1 5.4	7.5 4.9
2	7.4 4.4	7.2 4.2	6.3 4.1	7.9 6.3	7.1 5.3	9.0 8.0	7.2 5.5	6.7 4.8	18	6.9 4.0	NR NR	6.0 4.2	10.7 9.5	10.8 9.4	7.0 5.0	7.1 4.8	7.3 4.9
3	7.2 4.7	7.0 4.3	6.0 3.9	9.2 6.6	6.9 5.2	8.7 7.7	7.0 5.3	7.2 5.4	19	6.7 4.4	NR NR	6.1 4.0	9.9 8.6	9.9 8.7	6.6 4.7	6.7 4.8	7.2 4.8
4	NR NR	6.6 4.2	6.0 3.7	9.7 8.8	6.9 5.1	8.4 7.4	7.0 5.4	7.9 6.4	20	6.3 4.1	NR NR	6.5 4.2	8.9 7.5	9.5 8.3	6.5 4.8	6.9 5.3	7.1 4.3
5	NR NR	6.0 3.9	6.2 3.8	9.9 8.9	7.0 5.4	8.3 7.3	6.9 5.2	8.5 6.4	21	6.1 4.0	NR NR	7.2 4.5	8.5 7.0	9.5 8.2	6.9 5.3	7.2 5.2	6.9 4.5
6	NR NR	5.9 3.6	6.3 3.8	9.8 8.9	7.9 6.2	8.2 7.2	7.0 5.3	8.4 6.0	22	5.7 3.7	6.3 4.0	7.2 4.7	8.3 6.6	9.2 7.8	7.1 4.9	7.2 5.1	7.4 4.7
7	NR NR	6.3 3.8	6.7 4.0	9.8 8.8	9.6	8.3 7.1	7.1 5.5	8.2 5.5	23	5.7 3.6	6.6 4.1	7.2 4.7	7.8 6.2	9.3 8.0	6.8 4.9	7.3 5.2	7.5 4.9
8	NR NR	6.6 4.1	7.2 4.5	10.6	11.7	8.3 7.2	7.3 5.6	8.1 5.3	24	5.9 3.6	7.2 4.3	7.7 5.1	7.9 6.2	9.0 7.7	6.9 4.8	7.4 5.3	7.9 5.2
9	NR NR	6.9 4.3	7.0 4.5	16.2	14.8	8.4 7.3	7.5 5.6	8.1 5.2	25	6.3 3.9	7.5 4.8	8.2 5.7	8.1 6.1	8.9 7.7	6.8 4.8	7.3 5.4	7.9 5.2
10	NR NR	6.8 4.2	7.6 4.5	17.8	16.1 15.7	8.4 7.3	7.7 5.6	8.1 5.1	26	6.4 4.1	7.1 4.5	8.2 5.7	8.2 6.3	8.9 7.7	7.1 5.1	7.4 5.6	7.7 5.0
11	NR NR	6.7 4.2	8.1 4.9	17.9	15.9 15.6	8.5 7.1	7.9 5.8	7.8 4.8	27	6.5 4.1	7.1 4.5	8.5 6.0	7.7 6.2	9.1 7.7	7.7 5.6	7.6 5.6	7.5 4.9
12	NR NR	7.1 4.1	7.3 5.4	17.6	15.1 14.5	8.3 6.8	8.1 5.8	7.5 4.7	28	6.7 4.1	7.3 4.4	8.2 6.5	7.4 6.0	9.2 8.0	7.7 6.0	7.6 5.7	7.2 4.9
13	NR NR	6.3 4.4	7.3 4.3	16.7	13.9 13.3	8.1 6.4	7.9 5.6	7.3 4.6	29	6.9 4.1	7.5 4.4	7.4 6.1	7.4 5.8	9.4 8.2	7.8 6.2	7.7 5.8	6.7 4.5
14	NR NR	NR NR	7.4 4.9	16.1	13.2 12.9	7.9 5.9	8.0 5.8	7.0 4.5	30	7.0 4.1	7.8 4.5	7.7 6.0		9.4 8.4	7.8 6.2	7.4 5.5	6.6 4.5
15	NR NR	NR NR	7.0 4.7	15.1	13.1 12.6	7.4 5.3	7.8 5.7	6.7 4.4	31		7.3 4.8	7.5 5.8		9.1 8.1		7.1 5.1	
16	NR NR	NR NR	6.7 4.5	13.4	12.4 11.7	7.0 5.0	7.5 5.3	6.7 4.8									

Crest Stages:			
	Date	2-10-60	2-11-60
	Time	5:30 PM	5:30 PM
	Stage	18.1	18.0

NR— No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 306

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER AT SNODGRASS SLOUGH

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	6.6 3.5	6.6 3.5	6.3 3.7	7.7 4.8	6.7 4.8	7.9 6.6	6.6 4.6	6.2 3.8	17	6.1 3.5	6.4 3.4	5.9 3.6	10.3 9.0	9.8 8.5	6.5 4.0	6.5 4.4	6.9 4.2
2	6.9 3.7	6.7 3.5	5.9 3.4	7.2 5.3	6.4 4.1	7.6 6.3	6.4 4.4	6.2 3.8	18	6.4 3.4	6.2 3.5	5.6 3.4	9.4 8.0	9.3 7.5	6.4 4.0	6.5 3.8	6.8 4.2
3	6.8 4.0	6.5 3.6	5.5 3.2	7.6 5.3	6.3 4.2	7.3 6.1	6.3 4.2	6.6 4.4	19	6.2 3.7	5.9 3.4	5.6 3.3	8.7 7.1	8.5 6.9	6.1 3.7	6.1 3.8	6.7 4.1
4	6.5 3.8	6.1 3.6	5.5 3.0	8.5 7.2	6.3 4.2	7.1 5.8	6.2 4.3	7.3 5.4	20	5.9 3.4	5.9 3.3	6.0 3.4	7.8 6.0	8.3 6.6	6.0 3.9	6.4 4.4	6.6 3.6
5	6.0 3.5	5.5 3.3	5.7 3.1	8.6 7.2	6.4 4.4	7.1 5.8	6.2 4.2	7.9 5.4	21	5.7 3.4	5.8 3.4	6.7 3.8	7.6 5.6	8.3 6.6	6.4 4.5	6.7 4.3	6.4 3.7
6	5.8 3.2	5.5 3.0	5.8 3.2	8.6 7.2	6.8 5.2	7.1 5.8	6.3 4.3	7.8 5.2	22	5.2 3.0	5.8 3.4	6.8 4.0	7.5 5.6	8.1 6.4	6.6 4.0	6.6 4.2	6.9 3.9
7	5.7 3.2	5.8 3.2	6.2 3.4	8.6 7.2	8.6 7.3	7.2 5.6	6.5 4.3	7.6 4.7	23	5.3 2.9	6.1 3.5	6.7 4.0	7.0 4.9	8.2 6.5	6.3 4.0	6.7 4.2	7.0 4.1
8	5.6 3.3	6.1 3.5	6.7 3.8	10.5 8.0	10.2 9.2	7.2 5.8	6.7 4.5	7.5 4.4	24	5.5 3.0	6.7 3.7	7.2 4.4	7.2 4.9	8.0 6.3	6.4 3.9	6.9 4.3	7.4 4.4
9	5.7 3.3	6.4 3.7	6.6 3.8	13.6	12.8 11.6	7.3 5.8	6.9 4.6	7.5 4.3	25	5.8 3.2	7.0 4.2	7.6 4.8	7.4 4.9	7.9 6.3	6.3 3.9	6.8 4.3	7.4 4.4
10	5.9 3.5	6.3 3.6	7.1 3.8	15.3 14.9	13.5 13.1	7.4 5.8	7.1 4.6	7.6 4.3	26	5.9 3.5	6.6 3.8	7.7 4.8	7.5 5.1	7.8 6.3	6.6 4.2	6.8 4.4	7.2 4.2
11	6.0 3.7	6.2 3.5	7.6 4.2	15.4 14.9	13.3 12.9	7.5 5.8	7.2 4.8	7.3 4.0	27	6.0 3.4	6.6 3.8	7.8 5.0	7.0 5.2	8.1 6.2	7.2 4.6	6.9 4.4	6.9 4.1
12	6.3 3.8	6.6 3.8	6.9 4.7	15.1 14.7	12.7 12.0	7.4 5.4	7.5 4.8	7.0 3.9	28	6.2 3.4	6.8 3.6	7.5 5.3	6.7 4.4	8.2 6.5	7.1 4.8	6.9 4.6	6.7 4.0
13	6.3 3.8	5.9 3.8	6.8 4.0	14.5 14.1	11.7 10.9	7.2 5.1	7.2 4.5	6.8 3.8	29	6.4 3.4	7.0 3.8	7.3 5.0	6.8 4.2	8.1 6.6	7.0 4.9	7.0 4.6	6.2 3.7
14	6.4 3.8	5.9 3.1	6.9 4.0	13.8 13.3	11.1 10.6	7.2 4.7	7.4 4.7	6.5 3.8	30	6.5 3.4	7.2 3.8	7.0 4.9		8.2 6.8	6.9 4.9	6.7 4.4	5.9 3.6
15	6.5 3.7	6.1 3.1	6.5 4.0	12.9 12.2	11.0 10.3	6.7 4.2	7.2 4.6	6.3 3.6	31		6.8 4.1	6.9 4.8		7.9 6.4		6.5 4.1	
16	6.3 3.7	6.3 3.2	6.2 3.8	11.6 10.6	10.6 9.5	6.4 3.9	6.8 4.3	6.2 4.1									

Crest Stages:		
	Date	2-9-60
	Time	4:45 PM
	Stage	14.6

NR—No Record

NOTE : Single daily values indicate daily mean stage only

TABLE 307

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER NEAR FREEPORT

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan	Feb	Mar	Apr.	May	June
1	3.9 1.3	4.0 1.2	3.7 1.5	5.4 3.3	4.6 3.3	7.3 6.8	4.7 3.4	3.9 2.1	17	3.5 1.2	3.8 1.1	3.3 1.6	10.1	9.6	4.1 2.6	4.2 2.9	4.3 2.0
2	4.3 1.5	4.0 1.2	3.2 1.2	5.4 3.8	4.2 2.8	7.1 6.4	4.4 3.1	3.8 2.4	18	3.8 1.1	3.6 1.2	2.9 1.4	8.4	8.5	4.0 2.4	4.2 2.4	4.2 2.0
3	4.2 1.8	3.9 1.3	2.8 1.0	6.8 4.6	4.0 2.6	6.7 6.0	4.2 2.9	4.3 2.9	19	3.5 1.4	3.2 1.1	3.0 1.2	8.0 6.9	7.6	3.6 2.0	3.8 2.3	4.1 1.9
4	3.9 1.6	3.4 1.3	2.9 0.8	7.7 7.1	3.9 2.5	6.3 6.0	4.2 3.0	4.9 3.7	20	3.2 1.2	3.2 1.0	3.3 1.3	7.0 5.7	7.5 6.7	3.5 2.2	4.0 2.8	4.0 1.5
5	3.4 1.3	2.9 1.0	3.1 0.9	7.9 7.2	4.1 2.8	6.1 5.6	4.1 2.8	5.5 3.7	21	2.9 1.1	3.1 1.1	4.2 1.6	6.2 5.4	7.4 6.7	3.9 2.2	4.3 2.6	3.8 1.8
6	3.2 1.0	2.8 0.8	3.2 0.8	7.9 7.2	5.0	6.0 5.5	4.2 2.9	5.4 3.3	22	2.5 0.7	3.2 1.0	4.1 1.8	5.9 4.9	7.0 6.4	4.1 2.5	4.2 2.5	4.3 2.0
7	3.2 1.0	3.2 0.9	3.5 1.0	7.8 7.2	8.1	6.0 5.3	4.3 2.9	5.1 2.8	23	2.6 0.6	3.4 1.1	4.1 1.8	5.3 4.4	6.9 6.0	3.8 2.2	4.3 2.6	4.4 2.0
8	3.0 1.0	3.5 1.0	4.0 1.4	9.0	10.6	5.9 5.2	4.4 3.0	5.0 2.6	24	2.8 0.7	4.1 1.3	4.7 2.0	5.3 4.0	6.7 6.0	3.9 2.1	4.4 2.8	4.7 2.4
9	3.1 1.0	3.7 1.3	3.9 1.6	15.8	14.1	6.0 5.2	4.6 3.1	4.9 2.4	25	3.2 0.9	4.4 2.0	5.2 2.8	5.4 3.8	6.6 5.9	3.8 2.1	4.4 3.0	4.8 2.3
10	3.3 1.1	3.6 1.4	4.4 1.7	17.4	15.3	6.0 5.2	4.8 3.2	5.0 2.2	26	3.2 1.1	3.9 1.7	5.3 3.1	5.4 3.9	6.6 5.8	4.2 2.6	4.6 3.3	4.5 2.2
11	3.4 1.3	3.6 1.3	5.1 2.1	17.3	14.9	6.0 5.1	4.9 3.3	4.6 2.0	27	3.4 1.2	4.0 1.7	5.8 3.6	4.9 3.8	6.8 5.8	4.7 3.1	4.8 3.3	4.3 2.1
12	3.6 1.4	3.9 1.1	4.2 2.6	16.9	13.7	5.8 4.6	5.2 3.4	4.4 1.8	28	3.6 1.2	4.2 1.5	5.5 4.2	4.6 3.6	6.9 6.1	4.9 3.6	4.8 3.4	4.1 2.1
13	3.7 1.5	3.2 1.5	4.3 2.1	16.1	12.4	5.5 4.2	5.0 3.2	4.2 1.8	29	3.8 1.2	4.4 1.5	5.2 3.8	4.6 3.4	7.3 6.5	5.1 4.0	4.9 3.4	3.6 1.7
14	3.8 1.4	3.3 0.7	4.3 2.2	15.2	12.0	5.2 3.5	5.1 3.4	3.9 1.7	30	3.9 1.2	4.6 1.6	4.9 3.6		7.3 6.6	5.2 4.0	4.6 3.1	3.4 1.7
15	3.9 1.4	3.4 0.8	3.9 2.0	14.0	11.7	4.6 3.0	5.0 3.3	3.7 1.5	31		4.2 1.9	4.6 3.4		7.0 6.4		4.3 2.7	
16	3.7 1.4	3.7 0.9	3.6 1.8	12.1	10.8	4.2 2.6	4.6 2.9	3.5 1.9									

Crest Stages:		
	Date	3-10-60
	Time	3:30 PM
	Stage	15.4

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 308

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

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	5.5 1.7	5.6 1.6	5.3 1.9	6.0 2.1	5.0 2.0	4.8 1.5	4.8 1.3	4.4 1.1	17	5.2 1.7	5.5 1.6	4.8 1.6	5.1 1.9	4.7 1.4	4.6 1.1	4.6 1.4	5.3 2.1
2	5.9 1.9	5.6 1.7	4.9 1.6	5.7 2.7	4.8 1.8	4.4 1.1	4.7 1.3	4.5 1.2	18	5.5 1.6	5.3 1.7	4.6 1.6	5.5 2.2	4.9 1.5	4.6 1.2	4.6 1.0	5.3 2.1
3	5.8 2.1	5.6 1.7	4.6 1.5	5.3 2.1	4.7 1.7	4.5 1.2	4.6 1.2	4.7 1.8	19	5.2 1.8	5.0 1.6	4.6 1.5	5.6 2.2	5.2 1.5	4.5 1.1	4.3 1.0	5.1 1.6
4	5.5 1.9	5.1 1.7	4.6 1.4	5.3 2.1	4.8 1.6	4.4 1.2	4.5 1.4	5.3 2.8	20	4.9 1.5	5.0 1.6	4.9 1.8	5.3 1.6	5.2 1.5	4.2 1.2	4.3 1.5	5.0 1.6
5	5.0 1.7	4.6 1.4	4.7 1.5	5.6 2.2	4.9 1.5	4.5 1.4	4.4 1.2	6.0 2.8	21	4.7 1.4	4.8 1.7	5.5 2.1	5.3 1.6	5.3 1.7	4.4 1.9	4.8 1.6	4.9 1.2
6	4.8 1.3	4.5 1.3	4.8 1.6	5.4 1.9	4.8 1.3	4.5 1.7	4.4 1.3	5.9 2.3	22	4.4 1.3	4.9 1.7	5.7 2.3	5.7 1.7	5.3 1.8	4.8 1.4	4.9 1.5	5.2 1.4
7	4.7 1.4	4.9 1.6	5.1 1.8	5.5 2.1	5.1 1.8	4.5 1.5	4.5 1.7	5.8 2.0	23	4.2 1.1	5.2 1.9	5.6 1.9	5.4 1.7	5.3 2.0	4.5 1.4	4.9 1.3	5.4 1.6
8	4.7 1.5	5.2 1.9	5.7 2.0	6.8 3.3	5.0 1.6	4.7 1.7	4.7 1.7	5.7 1.7	24	4.4 1.2	5.6 2.2	5.9 2.1	5.2 1.5	5.1 2.0	4.6 1.3	5.1 1.4	5.7 2.1
9	4.8 1.6	5.4 2.2	5.6 2.0	7.1 3.3	5.1 1.6	4.6 1.8	4.9 1.6	5.8 1.8	25	4.8 1.5	6.0 2.3	6.3 2.4	5.4 1.5	5.0 1.9	4.4 1.1	4.9 1.1	5.9 2.0
10	5.0 1.8	5.3 1.9	6.0 2.0	6.4 3.0	5.0 1.8	4.7 1.8	5.0 1.5	5.9 1.8	26	4.8 1.8	5.5 1.7	6.1 2.4	5.6 1.9	4.9 2.0	4.8 1.3	4.8 1.1	5.6 1.8
11	5.0 2.0	5.3 1.9	6.2 2.2	6.1 2.7	5.2 1.7	4.8 1.8	5.2 1.7	5.6 1.5	27	5.0 1.7	5.5 1.7	6.0 2.2	5.2 2.2	5.0 2.0	5.3 1.7	4.9 1.1	5.4 1.6
12	5.3 2.1	5.5 1.7	5.9 2.7	5.8 2.5	5.2 2.0	4.9 1.5	5.5 1.6	5.4 1.4	28	5.2 1.7	5.7 1.7	5.7 2.1	4.9 1.8	5.4 2.1	5.3 1.6	5.0 1.3	5.0 1.5
13	5.3 2.1	5.4 2.1	5.7 2.0	5.8 2.3	5.0 2.2	4.8 1.3	5.3 1.3	5.2 1.4	29	5.4 1.6	5.9 1.9	5.6 1.9	4.9 1.8	5.0 1.8	5.0 1.5	5.0 1.3	4.5 1.2
14	5.5 2.0	5.0 1.7	5.6 1.8	5.4 2.3	4.8 2.0	4.9 1.3	5.3 1.3	5.0 1.4	30	5.5 1.6	6.2 2.0	5.4 2.0		5.1 2.1	4.9 1.3	4.9 1.3	4.2 1.1
15	5.6 2.0	5.1 1.2	5.5 2.0	5.1 2.1	4.7 1.9	4.6 1.0	5.2 1.3	4.7 1.3	31		5.8 2.3	5.3 2.0		5.0 1.6		4.8 1.2	
16	5.4 2.0	5.3 1.4	5.2 1.9	4.9 1.9	4.9 1.9	4.6 0.8	5.1 1.2	4.6 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 SACRAMENTO WEIR

In feet

Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	NR NR	7.8 6.1	7.7 6.6	NR NR	9.9 9.3	14.9	NR NR	9.2 8.4
2	NR NR	7.8 6.2	7.3 6.4	10.4	9.5 9.0	14.6	NR NR	8.9 8.6
3	8.0 6.7	7.7 6.2	7.0 6.2	14.0	9.3 8.7	14.0	9.8 9.3	9.4 8.9
4	7.7 6.4	7.3 6.2	NR NR	15.5	9.2 8.6	13.5	9.8 9.4	9.8 9.3
5	7.3 6.3	6.8 5.9	NR NR	15.5	10.5	13.2	9.8 9.3	10.1 9.2
6	7.2 6.1	6.8 5.7	NR NR	15.5	12.8	12.8	9.8 9.2	10.0 8.7
7	7.2 6.0	7.1 5.7	NR NR	15.2	17.0	12.6	9.7 9.2	9.4 8.1
8	7.0 5.9	7.3 5.8	NR NR	17.7	20.0	12.5	9.6 9.0	9.2 7.9
9	7.0 5.8	7.5 6.0	NR NR	25.6	23.6	12.5	9.9 9.1	9.0 7.6
10	7.2 5.9	7.4 6.0	NR NR	26.6	24.6	12.4	10.1 9.5	8.9 7.4
11	7.2 6.0	7.4 6.0	NR NR	26.4	23.9	12.2	10.3 9.5	8.6 7.1
12	7.4 6.1	7.7 5.9	NR NR	25.8	22.5	12.0 11.4	10.4 9.7	8.4 7.1
13	7.5 6.2	7.0 6.0	NR NR	25.0	21.1	11.4 10.7	10.3 9.7	8.3 7.0
14	7.6 6.2	7.2 5.7	NR NR	24.0	20.8	10.7 9.8	10.6 9.8	8.0 6.9
15	7.6 6.2	7.3 5.8	NR NR	22.8	20.4	10.0 9.3	10.2 9.5	7.9 6.7
16	7.5 6.2	7.5 5.8	NR NR	20.6	19.2	9.5 NR	9.9 9.1	7.8 6.8
17	7.4 6.0	7.6 6.0	NR NR	18.2	17.7	NR NR	9.6 9.1	8.3 6.9
18	7.7 6.0	7.4 6.0	NR NR	16.1	16.4	NR NR	9.5 8.7	8.2 6.9
19	7.5 6.4	7.2 6.0	NR NR	14.9	15.5	NR NR	9.3 8.6	8.1 6.8
20	7.2 6.2	7.2 6.0	NR NR	13.9	14.8	NR NR	9.2 8.7	7.9 6.6
21	7.0 6.2	7.1 6.0	NR NR	12.8	14.5	NR NR	9.2 8.5	7.9 6.7
22	6.7 5.9	7.1 6.0	NR NR	12.0	13.9	NR NR	9.1 8.4	8.3 7.0
23	6.7 5.8	7.3 6.0	NR NR	11.5 11.2	13.6	NR NR	9.3 8.7	8.3 7.0
24	6.8 5.8	8.0 6.2	NR NR	11.0 10.7	13.5	NR NR	9.5 8.8	8.6 7.3
25	7.1 5.9	8.3 6.9	NR NR	11.0 10.4	13.4	NR NR	9.9 9.1	8.7 7.3
26	7.2 6.0	8.2 7.0	NR NR	10.8 10.3	13.2	NR NR	10.5 9.9	8.5 7.3
27	7.3 6.0	8.1 6.9	NR NR	10.5 10.1	13.4	NR NR	10.6 10.0	8.4 7.2
28	7.4 6.0	8.1 6.7	NR NR	10.2 9.8	13.8	NR NR	10.6 10.0	8.2 7.1
29	7.6 6.0	8.2 6.6	NR NR	10.1 9.6	14.6	NR NR	10.6 10.0	7.9 6.9
30	7.7 6.1	8.4 6.6	NR NR		14.3	NR NR	10.3 9.7	7.7 7.0
31		8.1 6.8	NR NR		14.2		9.9 8.9	

Crest Stages:					
	Date	2- 4-60	2- 6-60	2-10-60	3-10-60	3-29-60
	Time	2:30 PM	3:00 PM	7:30 AM	8:00 AM	10:30 AM
	Stage	15.7	15.6	26.7	24.6	14.7

NOTE : Single daily values indicate daily mean stage only.

TABLE 310

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
OLD RIVER AT MANSION HOUSE

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.6 -0.2	3.6 -0.4	3.3 -0.2	4.1 0.2	3.1 0.1	3.0 -0.4	2.9 -0.6	2.7 -0.7	17	3.2 -0.3	3.5 -0.4	2.8 -0.4	3.0 0.0	3.0 -0.4	2.9 -0.8	2.9 -0.4	3.7 0.4
2	3.9 -0.1	3.7 -0.3	2.9 -0.4	3.7 0.8	2.9 -0.1	2.6 -0.8	2.8 -0.6	2.8 -0.6	18	3.5 -0.3	3.3 -0.3	2.5 -0.5	3.4 0.2	3.2 -0.3	2.9 -0.7	2.9 -0.8	3.6 0.3
3	3.8 0.2	3.6 -0.2	2.6 -0.5	3.3 0.2	2.8 -0.3	2.6 -0.7	2.6 -0.7	3.0 0.0	19	3.2 -0.1	3.0 -0.4	2.6 -0.5	3.5 0.2	3.4 -0.3	2.7 -0.7	2.6 -0.8	3.5 -0.1
4	3.6 0.0	3.2 -0.3	2.6 -0.6	3.3 0.2	2.9 -0.3	2.5 -0.7	2.6 -0.5	3.6 1.1	20	2.9 -0.4	2.9 -0.4	2.9 -0.2	3.3 -0.4	3.4 -0.4	2.5 -0.6	2.7 -0.3	3.4 -0.2
5	3.1 -0.3	2.6 -0.5	2.7 -0.5	3.5 0.2	3.0 -0.3	2.6 -0.5	2.6 -0.6	4.3 1.0	21	2.7 -0.5	2.8 -0.3	3.5 0.1	3.3 -0.3	3.6 -0.1	2.8 0.2	3.1 -0.2	3.3 -0.5
6	2.9 -0.6	2.5 -0.7	2.8 -0.4	3.4 -0.1	2.8 -0.6	2.7 -0.2	2.6 -0.5	4.2 0.6	22	2.3 -0.6	2.9 -0.3	3.7 0.3	3.6 -0.3	3.6 0.0	3.1 -0.4	3.2 -0.3	3.6 -0.3
7	2.8 -0.5	2.9 -0.4	3.2 0.0	3.5 0.1	3.2 -0.1	2.7 -0.3	2.8 -0.1	4.1 0.2	23	2.3 -0.8	3.2 0.0	3.6 -0.1	3.4 -0.5	3.6 0.2	2.8 -0.4	3.2 -0.5	3.7 -0.1
8	2.8 -0.4	3.2 0.0	3.7 0.1	4.8 1.3	3.0 -0.3	2.9 -0.1	3.0 -0.1	4.1 0.0	24	2.4 -0.7	3.7 0.2	3.8 0.2	3.3 -0.5	3.3 0.1	2.9 -0.5	3.3 -0.4	4.1 0.3
9	2.8 -0.3	3.4 0.2	3.6 0.1	5.1 1.3	3.2 -0.1	2.9 -0.1	3.2 -0.2	4.2 0.0	25	2.8 -0.4	4.0 0.4	4.3 0.5	3.5 -0.5	3.3 0.1	2.8 -0.7	3.1 -0.7	4.2 0.2
10	3.0 -0.1	3.3 0.0	4.0 0.3	4.4 1.0	3.2 -0.1	2.9 0.1	3.3 -0.3	4.3 0.0	26	2.9 -0.1	3.5 -0.2	4.2 0.5	3.7 -0.1	3.2 0.2	3.1 -0.5	3.1 -0.8	4.0 0.0
11	3.1 0.1	3.3 -0.2	4.3 0.3	4.0 0.7	3.4 -0.1	3.1 0.0	3.5 -0.1	4.0 -0.3	27	3.1 -0.2	3.5 -0.2	4.0 0.2	3.2 0.2	3.3 0.2	3.6 -0.1	3.2 -0.7	3.7 -0.1
12	3.3 0.2	3.5 -0.2	3.9 0.7	3.7 0.5	3.5 0.1	3.1 -0.4	3.7 -0.2	3.8 -0.3	28	3.3 -0.3	3.8 -0.3	3.7 0.1	3.0 -0.1	3.6 0.3	3.4 -0.3	3.2 -0.5	3.3 -0.2
13	3.4 0.2	3.4 0.2	3.7 0.0	3.7 0.3	3.2 0.4	2.0 -0.5	3.6 -0.6	3.6 -0.3	29	3.4 -0.3	4.0 -0.2	3.6 -0.1	3.0 -0.1	3.2 0.0	3.2 -0.4	3.3 -0.5	2.8 -0.5
14	3.5 0.1	3.0 -0.3	3.6 -0.3	3.4 0.3	3.0 0.2	3.2 -0.6	3.6 -0.4	3.3 -0.4	30	3.6 -0.4	4.3 0.0	3.4 0.0		3.3 0.3	3.0 -0.5	3.1 -0.6	2.7 -0.6
15	3.6 0.1	3.1 -0.7	3.5 0.0	3.0 0.1	3.0 0.0	2.9 -0.9	3.5 -0.5	3.0 -0.4	31		3.8 0.3	3.3 0.0		3.2 -0.3		3.0 -0.6	
16	3.3 0.0	3.4 -0.6	3.1 -0.2	2.9 0.0	3.1 0.0	2.9 -1.1	3.3 -0.6	3.0 0.3									

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
GEOROIANA SLOUGH AT MOKELUMNE RIVER

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	3.7 -0.1	3.7 -0.3	3.4 -0.1	4.2 0.4	3.3 0.3	3.1 -0.2	3.0 -0.3	3.0 -0.5	17	3.3 -0.2	3.6 -0.2	2.9 -0.3	3.2 0.2	3.3 0.0	3.1 -0.5	3.1 -0.2	3.9 0.6
2	4.0 0.0	3.8 -0.2	3.0 -0.3	3.8 0.9	3.1 0.0	2.7 -0.4	2.9 -0.3	3.0 -0.3	18	3.6 -0.2	3.4 -0.1	2.6 -0.4	3.6 0.4	3.5 0.0	3.1 -0.4	3.1 -0.6	3.8 0.6
3	3.9 0.3	3.7 -0.1	2.6 -0.5	3.5 0.4	3.0 -0.1	2.7 -0.3	2.8 -0.4	3.2 0.3	19	3.3 0.0	3.1 -0.2	2.7 -0.4	3.6 0.3	3.7 0.1	2.9 -0.4	2.8 -0.6	3.7 0.2
4	3.6 0.0	3.3 -0.2	2.6 -0.5	3.4 0.3	3.1 -0.1	2.6 -0.3	2.8 -0.2	3.9 1.3	20	3.0 -0.3	3.0 -0.3	3.0 -0.2	3.4 -0.2	3.7 0.0	2.7 -0.2	2.9 0.0	3.6 -0.2
5	3.1 -0.2	2.7 -0.4	2.8 -0.4	3.7 0.4	3.2 -0.1	2.7 -0.2	2.8 -0.4	4.5 1.3	21	2.7 -0.3	2.9 -0.2	3.7 0.3	3.5 -0.2	3.8 0.2	3.1 0.4	3.4 0.0	3.5 -0.3
6	2.9 -0.5	2.6 -0.6	2.9 -0.2	3.5 0.1	3.0 -0.3	2.8 0.1	2.9 -0.2	4.4 0.8	22	2.4 -0.6	3.0 -0.2	3.8 0.4	3.7 -0.1	3.8 0.3	3.4 0.0	3.4 -0.1	3.9 0.0
7	2.8 -0.4	3.0 -0.3	3.3 0.1	3.7 0.4	3.3 0.2	3.0 0.0	3.0 0.2	4.3 0.5	23	2.4 -0.7	3.3 0.1	3.7 0.1	3.4 -0.3	3.9 0.6	3.1 -0.1	3.4 -0.2	4.0 0.2
8	2.7 -0.3	3.3 0.1	3.8 0.2	5.0 1.6	3.2 0.0	3.1 0.2	3.3 0.2	4.4 0.2	24	2.6 -0.5	3.8 0.4	4.0 0.3	3.5 -0.2	3.6 0.5	3.2 -0.2	3.6 -0.1	4.3 0.5
9	2.9 -0.2	3.5 0.4	3.7 0.2	5.3 1.4	3.4 0.2	3.2 0.3	3.5 0.1	4.5 0.3	25	3.0 -0.2	4.1 0.5	4.4 0.6	3.8 -0.2	3.6 0.6	3.0 -0.3	3.4 -0.4	4.4 0.4
10	3.1 0.0	3.4 0.1	4.1 0.4	4.5 1.0	3.3 0.2	3.2 0.3	3.6 0.0	4.6 0.3	26	3.0 0.0	3.7 -0.1	4.3 0.3	3.9 0.2	3.5 0.6	3.4 -0.1	3.3 -0.5	4.2 0.3
11	3.2 0.2	3.4 -0.1	4.4 0.9	4.1 1.0	3.7 0.5	3.4 0.3	3.8 0.1	4.3 0.0	27	3.2 -0.2	3.7 -0.2	4.2 0.3	3.4 0.4	3.7 0.7	3.8 0.2	3.4 -0.5	3.9 0.2
12	3.4 0.3	3.6 0.3	3.9 0.9	3.9 0.8	3.7 0.5	3.4 0.0	4.0 0.0	4.0 -0.1	28	3.4 -0.2	3.9 0.0	3.8 0.3	3.2 0.1	3.9 0.6	3.7 -0.1	3.4 -0.2	3.5 0.1
13	3.5 0.2	3.3 -0.5	3.8 0.0	3.8 0.6	3.4 0.7	3.4 -0.2	3.8 -0.3	3.8 -0.1	29	3.6 -0.2	4.1 0.0	3.7 0.1	3.2 0.1	3.5 0.3	3.4 -0.2	3.5 -0.2	3.0 -0.3
14	3.6 0.2	3.2 -0.5	3.7 0.0	3.5 0.5	3.1 0.4	3.5 -0.3	3.9 -0.2	3.5 -0.1	30	3.7 -0.2	4.4 0.1	3.5 0.1		3.6 0.6	3.2 -0.3	3.3 -0.3	2.9 -0.3
15	3.7 0.2	3.2 -0.6	3.6 0.0	3.1 0.3	3.2 0.4	3.2 -0.6	3.7 -0.1	3.2 -0.2	31		3.9 0.4	3.4 0.2		3.4 0.0		3.1 -0.4	
16	3.4 0.2	3.4 -0.4	3.2 -0.1	3.0 0.2	3.2 0.0	3.0 -0.8	3.5 -0.3	3.9 0.4									

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
OLD RIVER AT HOLLAND TRACT

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb.	Mar	Apr	May	June		Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	7.0 3.2	7.0 3.1	6.7 3.2	7.4 3.7	6.6 3.6	6.4 3.1	6.3 3.0	6.3 2.9	17	6.6 3.2	6.9 3.1	6.2 3.0	6.5 3.4	6.5 3.2	6.4 2.8	6.5 3.1	7.3 4.0
2	7.3 3.3	7.1 3.1	6.3 3.0	7.1 4.3	6.3 3.3	6.0 2.8	6.3 3.0	6.3 3.0	18	6.9 3.1	6.7 3.2	5.9 2.9	6.8 3.7	6.8 3.2	6.4 2.9	6.5 2.7	7.2 4.0
3	7.2 3.6	7.0 3.2	6.0 2.8	6.8 3.7	6.3 3.2	6.0 2.9	6.1 2.9	6.6 3.6	19	6.6 3.3	6.4 3.1	6.0 2.9	6.9 3.6	6.9 3.2	6.3 2.9	6.1 2.8	7.1 3.5
4	6.9 3.4	6.6 3.2	6.0 2.9	6.7 3.7	6.4 3.2	5.9 2.9	6.1 3.1	7.2 4.7	20	6.3 3.0	6.3 3.0	6.3 3.2	6.7 3.1	6.9 3.2	6.0 3.0	6.2 3.3	6.9 3.3
5	6.4 3.2	6.0 2.9	6.2 2.9	6.9 3.7	6.4 3.2	6.1 3.1	6.1 3.0	7.8 4.7	21	6.1 3.0	6.2 3.1	7.0 3.6	6.7 3.1	7.0 3.4	6.3 3.8	6.7 3.4	6.9 3.1
6	6.2 2.9	5.9 2.8	6.2 3.1	6.8 3.4	6.3 2.9	6.2 3.4	6.2 3.1	7.7 4.2	22	5.8 2.9	6.3 3.1	7.0 3.7	7.0 3.2	7.0 3.6	6.7 3.3	6.7 3.2	7.2 3.3
7	6.2 3.0	6.3 3.0	6.6 3.4	6.9 3.7	6.6 3.4	6.3 3.2	6.3 3.5	7.6 3.8	23	5.7 2.6	6.6 3.4	7.0 3.4	6.8 3.0	7.1 3.8	6.4 3.2	6.7 3.1	7.3 3.5
8	6.1 3.1	6.6 3.4	7.1 3.5	8.3 4.9	6.5 3.2	6.3 3.5	6.6 3.5	7.7 3.5	24	5.9 2.8	7.0 3.7	7.2 3.6	6.7 3.1	6.9 3.7	6.4 3.1	6.8 3.2	7.7 3.9
9	6.2 3.2	6.8 3.7	7.0 3.5	8.5 4.5	6.7 3.4	6.4 3.5	6.8 3.4	7.8 3.6	25	6.3 3.1	7.4 3.8	7.7 3.9	7.0 3.5	6.8 3.8	6.3 3.0	6.7 2.9	7.7 3.8
10	6.4 3.4	6.8 3.4	7.4 3.7	7.8 4.1	6.6 3.4	6.4 3.5	6.9 3.3	7.9 3.6	26	6.3 3.3	6.9 3.2	7.5 3.6	7.2 3.5	6.7 3.8	6.6 3.2	6.6 2.8	7.5 3.6
11	6.5 3.6	6.7 3.2	7.7 4.2	7.4 4.1	6.9 3.7	6.6 3.5	7.1 3.4	7.6 3.3	27	6.5 3.2	6.9 3.1	7.4 3.6	6.7 3.7	6.9 3.9	7.1 3.5	6.7 2.8	7.3 3.5
12	6.7 3.6	6.9 3.6	7.2 3.4	7.2 4.0	6.9 3.7	6.6 3.2	7.3 3.3	7.3 3.2	28	6.7 3.1	7.2 3.1	7.1 3.6	6.4 3.4	7.1 3.9	6.9 3.3	6.8 3.1	6.9 3.4
13	6.8 3.6	6.7 3.0	7.0 3.4	7.1 3.8	6.7 3.9	6.6 3.1	7.1 3.0	7.1 3.2	29	6.9 3.1	7.4 3.3	6.9 3.3	6.5 3.4	6.7 3.5	6.7 3.1	6.8 3.1	6.4 3.1
14	6.8 3.5	6.5 2.7	7.0 3.2	6.7 3.7	6.4 3.7	6.7 3.0	7.1 3.2	6.9 3.2	30	6.9 3.1	7.7 3.4	6.7 3.4		6.8 3.8	6.5 3.0	6.6 3.0	6.3 3.1
15	6.9 3.5	6.6 2.7	6.9 3.3	6.4 3.5	6.4 3.6	6.5 2.7	7.0 3.1	6.6 3.2	31		7.2 3.7	6.7 3.4		6.7 3.3		6.4 3.0	
16	6.7 3.5	6.8 2.9	6.5 3.2	6.3 3.4	6.5 3.5	6.4 2.5	6.8 3.0	6.6 3.8									

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
OLD RIVER NEAR ROCK SLOUGH

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	6.6 2.7	6.6 2.6	6.2 2.8	7.0 3.2	6.1 3.1	6.0 2.6	5.9 2.5	5.8 2.4	17	6.2 2.7	6.4 2.6	5.7 2.5	6.0 2.9	6.1 2.7	5.9 2.3	5.9 2.6	6.8 3.4
2	6.9 2.9	6.7 2.6	5.8 2.5	6.6 3.8	5.9 2.8	5.6 2.3	5.8 2.5	5.8 2.5	18	6.4 2.6	6.2 2.7	5.4 2.4	6.4 3.2	6.3 2.7	5.9 2.4	5.9 2.2	6.7 3.4
3	6.8 3.1	6.6 2.7	5.5 2.4	6.3 3.2	5.8 2.7	5.6 2.4	5.7 2.4	6.0 3.1	19	6.2 2.9	5.9 2.6	5.5 2.4	6.4 3.1	6.4 2.7	5.7 2.3	5.6 2.2	6.5 3.0
4	6.5 2.9	6.1 2.7	5.5 2.4	6.2 3.1	5.9 2.7	5.5 2.4	5.7 2.6	6.7 4.1	20	5.8 2.6	5.9 2.5	5.8 2.7	6.2 2.5	6.4 2.7	5.6 2.5	5.7 2.8	6.4 2.8
5	6.0 2.7	5.6 2.5	5.7 2.4	6.5 3.2	6.0 2.7	5.6 2.6	5.6 2.4	7.3 4.1	21	5.6 2.5	5.8 2.7	6.5 3.1	6.3 2.6	6.6 2.9	5.8 3.3	6.2 2.9	6.4 2.5
6	5.8 2.3	5.5 2.3	5.8 2.6	6.3 2.9	5.8 2.4	5.7 2.9	5.7 2.6	7.2 3.7	22	5.3 2.4	5.9 2.7	6.6 3.2	6.6 2.6	6.6 3.0	6.2 2.7	6.2 2.7	6.7 2.8
7	5.7 2.4	5.9 2.6	6.1 2.9	6.5 3.1	6.2 2.9	5.8 2.7	5.8 2.9	7.1 3.3	23	5.3 2.2	6.2 2.9	6.5 2.9	6.4 2.5	6.7 3.2	5.9 2.7	6.2 2.6	6.8 3.0
8	5.6 2.6	6.2 2.9	6.6 3.0	7.8 4.4	6.0 2.8	5.8 2.9	6.1 3.0	7.2 3.0	24	5.4 2.3	6.6 3.2	6.8 3.1	6.3 2.5	6.4 3.2	5.9 2.5	6.3 2.7	7.2 3.3
9	5.7 2.7	6.4 3.2	6.6 3.0	8.0 4.0	6.2 3.0	5.9 3.0	6.3 2.9	7.3 3.1	25	5.8 2.6	7.0 3.3	7.2 3.4	6.5 2.9	6.4 3.3	5.8 2.4	6.2 2.4	7.2 3.2
10	6.0 2.9	6.3 2.9	6.9 3.2	7.3 3.6	6.2 2.9	6.0 3.1	6.4 2.7	7.4 3.1	26	5.8 2.8	6.5 2.7	7.1 3.1	6.7 2.9	6.3 3.3	6.1 2.6	6.1 2.3	7.0 3.1
11	6.0 3.1	6.3 2.8	7.2 3.7	6.9 3.6	6.4 3.2	6.1 3.0	6.6 2.9	7.1 2.8	27	6.0 2.7	6.5 2.6	6.9 3.1	6.2 3.2	6.4 3.3	6.6 2.9	6.2 2.3	6.7 3.0
12	6.3 3.2	6.5 3.1	6.8 3.7	6.7 3.5	6.5 3.2	6.2 2.7	6.8 2.8	6.8 2.7	28	6.2 2.6	6.8 2.8	6.6 3.0	6.0 2.9	6.7 3.3	6.4 2.7	6.3 2.6	6.4 2.9
13	6.4 3.1	6.3 3.1	6.6 2.9	6.6 3.3	6.2 3.4	6.1 2.6	6.6 2.4	6.7 2.7	29	6.4 2.6	7.0 2.8	6.5 2.8	6.0 2.9	6.3 3.0	6.2 2.6	6.3 2.6	5.9 2.5
14	6.5 3.0	6.0 2.5	6.6 2.7	6.3 3.2	6.0 3.2	6.3 2.5	6.6 2.6	6.3 2.7	30	6.6 2.6	7.2 2.9	6.3 2.9		6.4 3.3	6.1 2.5	6.1 2.5	5.7 2.5
15	6.6 3.0	6.1 2.2	6.4 2.9	5.9 3.0	6.0 3.1	6.0 2.2	6.5 2.6	6.0 2.6	31		6.8 3.2	6.2 2.9		6.2 2.8		6.0 2.4	
16	6.3 3.0	6.3 2.4	6.1 2.7	5.9 2.9	6.1 3.0	5.9 2.0	6.3 2.4	6.0 3.3									

Crest Stages:	Date	
	Time	
	Stage	

NR— No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 314

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
YOLO BYPASS AT LISBON

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	7.1 2.5	7.1 2.2	6.8 2.4	7.9 3.2	7.3 3.6	6.8 2.9	6.6 2.5	6.4 2.0	17	6.6 2.4	6.9 2.3	6.2 2.4	12.3	7.7 5.3	6.7 2.3	6.6 2.7	
2	7.5 2.7	7.2 2.3	6.4 2.2	7.3 4.0	6.8 3.1	6.4 2.8	6.6 2.8	6.4 2.2	18	6.9 2.3	6.7 2.4	5.9 2.3	11.6	7.7 5.0	6.7 2.4	6.7 1.8	
3	7.3 3.2	7.0 2.5	6.1 2.0	7.5 3.6	6.7 2.9	6.4 2.9	6.6 2.5	6.6 3.1	19	6.6 2.7	6.5 2.2	6.0 2.3	10.1	7.6 4.6	6.4 2.3	6.4 2.0	
4	6.9 2.6	6.6 2.4	6.0 1.7	7.4 5.3	6.7 3.0	6.2 2.6	6.6 2.4	NR NR	20	6.4 2.3	6.4 2.2	6.3 2.5	8.1	7.5 4.1	6.4 2.6	6.7 3.1	
5	6.6 2.2	6.2 2.1	6.3 2.1	7.9 6.0	6.8 3.0	6.3 2.8	6.4 2.5	NR NR	21	6.1 2.3	6.3 2.4	7.1 3.0	7.7 5.5	7.7 4.1	6.7 3.3	6.9 2.7	
6	6.4 2.0	6.1 1.9	6.3 2.3	7.8 6.1	6.6 3.5	6.5 3.0	6.6 2.6	NR NR	22	5.8 1.7	6.4 2.4	7.0 3.3	7.4 4.3	7.7 4.2	6.8 2.6	7.0 2.8	
7	6.3 2.2	6.4 2.2	6.5 2.7	8.4 6.9	7.6 5.6	6.7 2.7	6.8 3.0	NR NR	23	5.8 1.9	6.6 2.7	6.9 2.8	6.9 3.2	8.0 4.6	6.7 2.6	7.0 2.9	NO
8	6.2 2.3	6.7 2.6	7.0 3.0	10.0 8.1	7.6 6.0	6.8 3.2	7.0 2.9	NR NR	24	6.1 2.0	7.1 3.0	7.2 3.3	7.4 3.2	7.5 4.0	6.7 2.4	7.2 2.9	RE
9	6.3 2.4	6.8 3.0	6.7 2.9	10.2	8.2 6.9	6.9 3.2	7.2 2.7	NR NR	25	6.4 2.3	7.4 3.2	7.7 3.6	7.7 3.4	7.5 4.1	6.6 2.2	7.0 2.5	CORD
10	6.5 2.6	6.8 2.7	7.3 3.3	NR NR	8.8	6.9 3.2	7.2 2.5	NR NR	26	6.4 2.6	6.9 2.5	7.7 3.6	7.8 3.7	7.4 4.0	6.9 2.3E	7.0 2.4	
11	6.6 2.8	6.8 2.5	7.9 3.3	NR NR	10.7	7.1 3.1	7.4 3.0	NR NR	27	6.6 2.3	7.0 2.3	7.6 3.2	7.2 3.8	7.8 3.8	7.4 3.1	7.0 2.3	
12	6.8 3.0	7.1 2.9	7.0 3.9	NR NR	11.1	7.0 2.6	7.6 2.7	NR NR	28	6.7 2.2	7.2 2.6	7.3 3.1	6.9 3.3	7.7 3.9	7.2 2.8	7.1 2.8	
13	6.9 3.0	6.2 2.9	7.0 2.8	NR NR	10.8	6.9 2.7	7.3 2.1	NR NR	29	7.0 2.2	NR NR	7.2 2.9	6.9 3.2	7.3 3.5	7.0 2.5	7.2 3.0	
14	7.0 2.9	6.4 1.7	7.1 2.9	NR NR	9.4	7.1 2.2	7.5 2.7	NR NR	30	7.1 2.3	NR NR	7.0 3.0		7.4 4.0	6.9 2.7	6.8 2.6	
15	7.1 2.8	6.6 1.9	6.7 2.7	NR NR	8.6 7.3	6.7 1.8	7.4 2.8	NR NR	31		7.3 3.0	7.0 2.9		7.2 3.3		6.7 2.3	
16	6.8 2.8	6.8 2.1	6.5 2.6	13.0	7.8 5.9	6.3 1.5	7.0 2.2	NR NR									

Crest Stages:			
	Date	3-12-60	3-12-60
	Time	6:00 AM	4:15 PM
	Stage	11.2	11.2

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 315

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SAN JOAQUIN RIVER AT SAN ANDREAS LANDING

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec.	Jan.	Feb	Mar.	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1								NR NR	17							NR NR	6.6 3.3
2								NR NR	18							NR NR	6.5 3.4
3								NR NR	19							NR NR	6.4 3.0
4								6.5 4.0	20							NR NR	6.3 2.6
5								7.1 4.0	21							6.0 2.7	6.2 2.5
6								7.1 3.7	22							6.0 2.7	6.5 2.7
7	NO	NO	NO	NO	NO	NO	NO	7.0 3.2	23	NO	NO	NO	NO	NO	NO	NR NR	6.7 2.9
8	RECORD	RECORD	RECORD	RECORD	RECORD	RECORD	RECORD	7.0 3.0	24	RECORD	RECORD	RECORD	RECORD	RECORD	RECORD	NR NR	7.0 3.2
9								7.2 3.0	25							5.0 1.3	7.0 3.1
10								7.2 3.1	26							4.9 1.2	6.8 3.0
11								7.0 2.7	27							5.0 1.2	6.5 2.9
12								6.7 2.6	28							5.1 1.5	6.2 2.8
13								6.5 2.6	29							5.1 1.5	5.7 2.5
14								6.2 2.6	30							NR NR	5.5 2.4
15								5.9 2.6	31							NR NR	
16								6.6 3.2									

Crest Stages:	Date	
	Time	
	Stage	

NR— No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 316

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER AT ISLETON

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	6.6 2.0	6.6 1.8	6.3 1.9	7.0 2.6	6.2 2.6	6.1 2.4	5.8 2.1	NR	17	6.1 2.0	6.4 2.0	5.7 1.8	6.7 3.5	6.7 3.1	6.0 1.6	6.0 2.2	6.7 3.0
2	6.9 2.2	6.7 1.8	5.8 1.8	6.6 3.3	5.9 2.3	5.5 2.2	5.7 2.1	NR	18	6.3 2.0	6.2 2.0	5.3 1.8	6.9 3.5	6.8 2.6	5.9 1.8	5.3 1.6	6.7 3.0
3	6.8 2.4	6.6 1.9	5.4 1.6	6.4 2.7	5.8 2.2	5.5 2.3	5.6 2.0	6.8 2.7	19	6.0 2.3	5.9 2.0	5.4 1.8	6.7 2.9	6.6 2.5	5.8 1.8	5.9 1.8	6.6 2.6
4	6.5 2.2	6.1 1.9	5.5 1.6	6.4 3.2	5.8 2.3	5.4 2.3	5.6 2.2	6.8 3.7	20	5.7 2.0	5.8 1.9	5.8 2.1	6.3 2.3	6.5 2.4	5.6 1.9	5.9 2.4	6.5 2.0
5	5.9 2.0	5.5 1.8	5.7 1.9	6.7 3.2	5.8 2.3	5.5 2.3	5.6 2.1	7.4 3.7	21	5.5 1.9	5.6 2.1	6.6 2.6	6.4 2.2	6.7 2.6	6.0 2.7	6.2 2.3	6.3 2.0
6	5.7 1.7	5.4 1.7	5.8 2.1	6.5 2.9	5.7 2.2	5.7 2.6	5.8 2.2	7.3 3.2	22	5.1 1.6	5.8 2.1	6.6 2.6	6.7 2.1	6.7 2.7	6.2 2.2	6.3 2.2	6.7 2.2
7	5.6 1.8	5.8 2.0	6.1 2.4	6.7 3.1	6.2 3.0	5.8 2.3	6.0 2.5	7.3 2.8	23	5.1 1.7	6.0 2.4	6.5 2.2	6.3 1.8	7.0 2.9	6.0 2.2	6.3 2.1	6.8 2.4
8	5.5 2.0	6.1 2.3	6.5 2.4	8.6 4.4	6.4 3.3	6.1 2.6	6.3 2.5	7.3 2.5	24	5.3 1.8	6.6 2.6	6.8 2.5	6.4 2.0	6.7 2.8	6.1 2.0	6.5 2.1	7.2 2.8
9	5.7 2.1	6.3 2.7	6.4 2.3	8.7 4.8	6.9 4.0	6.2 2.7	6.5 2.4	7.4 2.5	25	5.8 2.1	7.0 2.7	7.3 2.7	6.8 2.3	6.7 2.9	6.0 1.9	6.2 1.8	7.2 2.7
10	5.9 2.3	6.2 2.3	6.9 2.6	8.1 5.0	7.1 4.2	6.2 2.7	NR	7.5 2.5	26	5.8 2.2	6.5 2.1	7.2 2.4	6.9 2.6	6.6 3.0	6.3 2.1	6.2 1.7	7.0 2.5
11	6.0 2.4	6.2 2.1	7.3 3.0	8.0 5.0	7.5 4.2	6.4 2.6	NR	7.3 2.1	27	6.0 2.0	6.5 1.9	7.1 2.4	6.4 2.3	6.9 3.0	6.8 2.4	6.2 1.8	6.7 2.5
12	6.2 2.5	6.5 2.1	6.7 2.2	7.8 4.8	7.3 4.1	6.4 2.2	NR	6.9 2.1	28	6.3 1.8	6.8 1.9	6.8 2.2	6.1 2.3	6.9 3.0	6.5 2.2	6.3 2.1	6.4 2.4
13	6.3 2.4	6.0 2.4	6.6 2.1	7.7 4.8	7.0 3.8	6.4 2.0	NR	6.7 2.1	29	6.4 1.8	7.1 2.1	6.7 2.2	6.1 2.3	6.6 2.7	6.3 2.1	6.3 2.1	5.9 2.1
14	6.4 2.4	5.9 1.6	6.6 2.1	7.3 4.5	6.7 3.7	6.5 1.9	NR	6.4 2.1	30	6.6 1.8	7.4 2.2	6.4 2.3		6.7 3.0	6.1 2.1	NR	5.7 2.1
15	6.5 2.3	6.0 1.6	6.3 2.1	6.9 4.2	6.7 3.7	6.1 1.6	NR	6.1 2.1	31		6.8 2.4	6.3 2.3		6.4 2.4		NR	
16	6.3 2.0	6.3 1.7	6.0 2.0	6.7 3.8	6.8 3.2	5.9 1.4	5.7 1.9	6.8 2.9									

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
ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb.	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	6.7 2.8	6.7 2.6	6.4 2.8	7.2 3.2	6.2 3.1	6.1 2.6	6.0 2.5	6.1E 2.4	17	6.3 2.7	6.6 2.6	5.9 2.5	6.2 3.0	6.2 2.7	6.1 2.3	6.0 2.6	6.9 3.4
2	7.0 2.9	6.8 2.6	6.0 2.5	6.8 3.8	6.0 2.9	5.7 2.3	5.9 2.5	5.9 2.5	18	6.6 2.6	6.4 2.7	5.6 2.5	6.5 3.2	6.4 2.7	6.0 2.4	6.0 2.2	6.8 3.4
3	6.9 3.2	6.7 2.7	5.7 2.4	6.5 3.2	5.9 2.7	5.7 2.4	5.8 2.4	6.1 3.1	19	6.3 2.9	6.1 2.6	5.7 2.5	6.6 3.1	6.6 2.8	5.9 2.3	5.7 2.2	6.7 3.0
4	6.7 2.9	6.2 2.7	5.7 2.4	6.4 3.2	6.0 2.7	5.6 2.4	5.8 2.6	6.8 4.1	20	6.0 2.6	6.0 2.6	6.0 2.7	6.4 2.6	6.6 2.7	5.7 2.6	5.8 2.8	6.5 2.8
5	6.2 2.7	5.7 2.5	5.8 2.5	6.6 3.2	6.1 2.7	5.7 2.6	5.7 2.4	7.4 4.1	21	5.7 2.5	5.9 2.7	6.7 3.2	6.4 2.6	6.7 2.9	5.9 3.2	6.2 2.8	6.5 2.5
6	6.0 2.4	5.6 2.3	5.9 2.6	6.5 2.9	6.0 2.5	5.8 2.9	5.8 2.6	7.4 3.7	22	5.4 2.4	6.0 2.7	6.8 3.2	6.7 2.7	6.7 3.0	6.3 2.8	6.3 2.7	6.8 2.7
7	5.9 2.4	6.0 2.6	6.3 2.9	6.6 3.2	6.3 2.9	5.9 2.7	5.9 3.0	7.3 3.3	23	5.4 2.2	6.3 2.9	6.7 2.9	6.5 2.5	6.8 3.3	6.0 2.7	6.3 2.6	6.9 2.9
8	5.8 2.6	6.3 2.9	6.8 3.1	7.9 4.4	6.2 2.8	6.0 3.0	6.2 3.0	7.3 3.0	24	5.6 2.3	6.8 3.2	7.0 3.2	6.4 2.6	6.6 3.2	6.1 2.6	6.4 2.7	7.3 3.3
9	5.9 2.7	6.5 3.2	6.7 3.0	8.2 4.1	6.3 3.0	6.1 3.0	6.4 2.9	7.4 3.0	25	6.0 2.6	7.1 3.4	7.4 3.4	6.7 3.0	6.5 3.4	6.0 2.4	6.3 2.3	7.3 3.2
10	6.1 2.9	6.4 3.0	7.1 3.3	7.4 3.7	6.3 3.0	6.1 3.0	6.5 2.7	7.5 3.1	26	6.0 2.9	6.6 2.8	7.3 3.1	6.8 3.0	6.4 3.4	6.3 2.6	6.2 2.2	7.1 3.0
11	6.2 3.1	6.4 2.7	7.4 3.7	7.1 3.7	6.6 3.2	6.3 3.0	6.7 2.9	7.2 2.8	27	6.2 2.7	6.6 2.6	7.1 3.1	6.3 3.2	6.6 3.3	6.7 2.9	6.3 2.3	6.9 2.9
12	6.4 3.2	6.6 3.1	6.9 3.7	6.8 3.5	6.7 3.2	6.3 2.7	6.9 2.8	7.0 2.7	28	6.4 2.6	6.9 2.6	6.8 3.1	6.1 2.9	6.8 3.4	6.6 2.7	6.4 2.5	6.5 2.9
13	6.5 3.1	6.4 3.1	6.8 2.9	6.8 3.3	6.4 3.4	6.2 2.6	6.7 2.4	6.8 2.7	29	6.5 2.6	7.1 2.8	6.7 2.9	6.1 2.9	6.4 3.0	6.3 2.6	6.5 2.6	6.0 2.5
14	6.6 3.1	6.2 2.5	6.7 2.7	6.5 3.2	6.1 3.2	6.4 2.4	6.8 2.6	6.5 2.7	30	6.7 2.6	7.4 2.9	6.5 2.9		6.5 3.3	6.2 2.5	5.8 2.4	5.8 2.5
15	6.7 3.1	6.2 2.2	6.6 2.9	6.1 3.0	6.1 3.1	6.1 2.1	6.6 2.6	6.2 2.6	31		6.9 3.2	6.4 3.0		6.4 2.8		6.1E 2.4E	
16	6.5 3.0	6.5 2.4	6.2 2.8	6.0 3.0	6.2 3.0	6.0 2.0	6.4 2.4	6.2 3.3									

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
MINER SLOUGH AT FIVE POINTS

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	6.6 3.4	6.6 3.2	5.7 3.5	7.2 3.8	7.2 3.5		NR NR	6.6 2.7	17	6.2 3.4	6.2 3.4	5.5 3.3	7.5 4.8	7.0 3.8		6.9 3.1	7.6 3.8
2	6.9 3.7	6.7 3.3	5.5 3.4	6.6 4.4	6.8 3.3		NR NR	6.9 2.8	18	6.6 3.3	6.0 3.5	5.2 3.3	7.7 4.6	7.6 3.7		6.6 2.4	7.5 3.9
3	6.8 3.7	6.5 3.3	5.1 3.3	6.3 3.9	6.7 3.2		NR NR	7.6 3.6	19	6.4 3.6	5.8 3.4	5.2 3.3	7.6 4.0	7.2 3.5		6.6 2.6	7.4 3.5
4	6.4 3.4	6.2 3.3	5.1 3.3	6.5 4.2	6.7 3.2		NR NR	7.6 4.6	20	6.1 3.3	5.8 3.4	5.3 3.4	7.2 3.3	7.5 3.4		6.8 3.4	7.3 2.8
5	6.0 3.2	5.6 3.2	5.5 3.2	6.8 4.3	6.8 3.3		NR NR	8.2 4.6	21	5.9 3.3	5.6 3.5	6.0 3.7	7.3 3.2	7.6 4.6		7.1 3.2	7.1 2.9
6	5.8 3.2	5.5 3.2	5.4 3.3	6.6 4.0	6.5 3.2		NR NR	8.2 4.2	22	5.7 3.1	5.4 3.5	6.2 3.8	7.3 3.1	7.6 3.7		7.1 3.1	7.5 3.1
7	5.8 3.2	5.7 3.3	5.6 3.5	6.8 4.3	7.0 3.9	NO	NR NR	8.1 3.7	23	5.6 3.1	5.7 3.7	6.2 3.5	6.9 2.9	7.8 4.0	NO	7.2 3.1	7.6 3.3
8	5.7 3.2	5.9 3.6	6.2 3.6	7.8 5.8	7.0 4.1	RECORD	NR NR	8.1 3.4	24	5.7 3.1	6.0 4.0	6.5 3.8	7.3 3.1	7.6 4.3	RECORD	7.4 3.1	8.0 3.7
9	5.8 3.3	6.1 3.9	6.0 3.5	8.4 6.3	7.2 4.7		NR NR	8.2 3.4	25	6.1 3.2	6.5 4.2	7.0 4.0	7.5 3.3	7.6 3.9		7.2 2.8	7.9 3.6
10	5.9 3.4	6.1 3.7	6.5 3.8	8.5 6.3	7.1 4.9		NR NR	8.3 3.4	26	6.0 3.4	5.9 3.6	6.9 3.7	7.6 3.6	7.5 3.8		7.1 2.7	7.8 3.5
11	6.0 3.6	6.0 3.5	6.8 4.2	11.6 8.1	7.5 5.1		NR NR	8.0 3.1	27	6.2 3.3	6.1 3.5	6.8 3.7	7.0 3.6	7.8 4.0		7.2 2.7	7.5 3.3
12	6.2 3.8	6.2 3.8	6.5 4.3	11.3 10.7	7.5 5.1		NR 3.2	7.7 3.0	28	6.4 3.2	6.2 3.5	6.5 3.7	6.8 3.2	7.9 3.9		7.2 3.0	7.3 3.4
13	6.3 3.7	5.8 3.2	6.4 3.5	10.4 9.4	7.3 5.1		7.7 2.7	7.5 3.0	29	6.5 3.2	6.4 3.5	6.4 3.5	6.9 3.3	7.5 3.6		7.3 3.1	6.7 3.0
14	6.4 3.7	5.9 3.2	6.3 3.4	9.2 7.7	7.1 4.5		7.7 3.0	7.2 3.0	30	6.6 3.2	6.6 3.6	6.2 3.5		7.6 4.0		7.0 2.9	6.6 3.0
15	6.5 3.7	6.1 3.2	6.0 3.4	8.1 6.3	7.0 4.5		7.6 3.0	6.9 2.9	31		6.2 3.8	6.2 3.5		NR NR		6.8 2.8	
16	6.4 3.7	6.2 3.3	5.8 3.4	7.6 5.3	6.8 3.8		7.2 2.8	7.6 3.7									

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
YOLO BYPASS AT LIBERTY ISLAND

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	6.9 2.0	7.0 1.8	6.6 1.8	7.4 2.5	6.6 2.6	6.3 2.0	6.2 2.1	6.1 1.8	17	6.4 2.1	NR NR	6.0 1.7	6.8 3.6	6.9 2.5	6.4 1.7	NR NR	7.2 3.0
2	7.2 2.2	7.1 1.9	6.2 1.6	7.0 3.2	6.3 2.3	5.7 1.9	6.1 2.1	6.4 2.0	18	6.7 2.0	6.5 2.0	5.7 1.7	7.2 3.5	7.0 2.5	6.3 1.8	NR NR	7.0 3.1
3	7.1 2.4	6.9 2.0	5.8 1.5	6.8 2.7	6.2 2.2	5.7 2.0	6.1 2.0	7.1 2.7	19	6.4 2.3	6.2 1.9	5.8 1.8	7.1 2.9	6.9 2.4	6.1 1.8	NR NR	7.0 2.7
4	6.8 2.1	6.5 2.0	5.8 1.3	6.7 2.9	6.2 2.3	5.6 2.0	6.0 2.1	7.1 3.7	20	6.1 2.0	6.1 1.9	6.2 2.1	6.7 2.2	6.9 2.3	6.0 2.1	NR NR	6.8 1.6
5	6.2 1.8	5.9 1.8	6.1 1.8	7.0 2.9	6.2 2.3	5.8 2.1	6.0 2.0	7.7 3.8	21	5.8 2.1	6.0 2.1	7.1 2.6	6.8 2.1	7.1 2.5	6.4 2.8	6.6 2.2	6.6 1.9
6	6.0 1.6	5.8 1.8	6.1 2.0	6.7 2.6	6.0 2.1	6.0 2.4	6.2 2.2	7.7 3.2	22	5.4 1.6	6.1 2.1	7.0 2.6	6.9 2.0	7.1 2.6	6.6 2.2	6.6 2.1	7.0 2.1
7	5.9 1.7	6.2 2.1	6.5 2.3	7.0 2.9	6.6 2.7	6.2 2.2	6.4 2.5	7.6 2.7	23	5.5 1.7	6.4 2.4	6.9 2.2	6.5 1.6	7.2 2.9	6.5 2.2	6.7 2.1	7.1 2.3
8	5.8 1.9	6.5 2.4	6.9 2.4	8.7 4.3	6.5 2.7	6.4 2.6	6.7 2.5	7.6 2.4	24	5.7 1.9	7.0 2.7	7.3 2.5	6.8 1.8	6.9 2.7	6.5 1.9	6.8 2.0	7.5 2.7
9	5.9 2.0	6.7 2.8	6.7 2.2	8.7 4.2	6.8 3.1	6.6 2.6	6.9 2.3	7.8 2.3	25	6.2 2.2	7.3 2.7	7.7 2.7	7.1 2.3	6.9 2.8	6.4 1.8	6.6 1.7	7.5 2.6
10	6.3 2.3	6.6 2.6	7.2 2.5	8.5 5.3	6.9 3.2	6.6 2.6	7.0 2.1	7.8 2.3	26	6.2 2.3	6.8 2.0	7.6 2.3	7.3 2.6	6.9 2.7	6.7 2.0	6.5 1.6	7.2 2.5
11	6.3 2.6	NR NR	7.8 3.0	12.4 11.8	7.2 3.4	6.8 2.5	7.2 2.1	7.6 2.0	27	6.4 2.1	6.9 1.8	7.5 2.2	6.7 2.6	7.2 2.9	7.2 2.3	6.6 1.6	7.0 2.4
12	6.6 2.6	NR NR	7.0 2.0	11.9 11.4	7.3 3.6	6.8 2.0	7.4 2.1	7.3 2.0	28	6.7 1.9	7.2 2.0	7.2 2.0	6.5 2.2	7.2 2.8	6.9 2.1	6.6 2.0	6.8 2.4
13	6.7 2.5	NR NR	6.9 2.1	10.6 9.6	7.0 3.3	6.8 1.9	7.1 1.6	7.0 2.0	29	6.9 1.9	7.4 2.0	7.0 2.0	6.5 2.3	6.8 2.4	6.6 2.0	6.7 2.0	6.2 2.0
14	6.7 2.5	NR NR	7.0 2.1	9.0 7.3	6.6 2.9	6.9 1.6	7.2 1.9	6.7 2.0	30	7.0 1.9	7.7 2.0	6.8 2.1		7.0 2.9	6.5 2.0	6.4 1.9	6.1 2.1
15	6.8 2.5	NR NR	6.7 1.9	7.6 5.2	6.8 3.0	6.5 1.4	7.1 2.0	6.4 2.0	31		7.2 2.3	6.7 2.2		6.6 2.2		6.2 1.9	
16	6.6 2.4	NR NR	6.4 1.9	7.0 4.1	6.6 2.2	6.3 1.2	NR NR	7.2 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
THREEMILE SLOUGH AT SAN JOAQUIN RIVER

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	13.1 9.3	NR NR	NR NR	13.6 9.8	12.7 9.7	12.5 9.2	12.4 9.1	12.4 9.1	17	12.7 9.3	NR NR	12.3 9.1	12.6 9.7	12.7 9.4	12.5 8.8	12.5 9.1	13.3 10.1
2	13.4 9.5	NR NR	NR NR	13.2 10.4	12.5 9.5	12.1 9.0	12.2 9.1	12.6 9.2	18	13.0 9.2	NR NR	12.0 9.1	13.0 9.9	12.9 9.4	12.5 9.0	12.1 8.8	13.2 10.1
3	13.4 9.7	NR NR	NR NR	12.9 9.8	12.4 9.4	12.1 9.1	12.1 9.0	13.2 9.8	19	12.7 9.5	NR NR	12.1 9.1	13.0 9.8	13.1 9.4	12.3 9.0	12.1 8.9	13.2 9.7
4	13.1 9.5	NR NR	NR NR	12.8 9.8	12.5 9.4	12.0 9.1	12.1 9.2	13.2 10.6	20	12.4 9.2	NR NR	12.4 9.4	12.8 9.2	13.0 9.4	12.1 9.1	12.3 9.5	13.0 9.3
5	12.6 9.3	NR NR	NR NR	13.0 9.8	12.5 9.4	12.1 9.2	12.1 9.1	13.7 10.7	21	12.1 9.1	NR NR	13.2 9.8	12.9 9.3	13.2 9.6	12.4 9.9	12.7 9.5	12.9 9.2
6	12.4 9.0	NR NR	NR NR	12.8 9.6	12.3 9.1	12.2 9.5	12.2 9.2	13.8 10.2	22	11.8 8.9	NR NR	13.2 9.9	13.1 9.3	13.2 9.6	12.7 9.4	12.8 9.3	13.3 9.5
7	12.3 9.1	NR NR	NR NR	13.1 9.8	12.7 9.5	12.4 9.3	12.4 9.6	13.7 9.9	23	11.8 8.8	NR NR	13.1 9.5	12.9 9.0	13.2 9.9	12.5 9.4	12.8 9.3	13.4 9.6
8	12.2 9.2	12.8 9.6	13.2 9.7	14.3 11.0	12.6 9.4	12.4 9.6	12.7 9.6	13.8 9.7	24	12.0 9.0	NR NR	13.4 9.8	12.9 9.2	13.0 9.8	12.6 9.2	13.0 9.3	13.7 10.0
9	12.3 9.3	NR NR	13.1 9.6	14.5 10.7	12.8 9.6	12.5 9.7	12.9 9.5	13.9 9.7	25	NR NR	NR NR	13.9 10.0	13.2 9.6	13.0 9.9	12.5 9.1	12.8 9.0	13.7 9.9
10	12.5 9.6	NR NR	13.5 9.8	13.8 10.2	12.7 9.6	12.6 9.6	13.0 9.3	14.0 9.7	26	NR NR	NR NR	13.7 9.7	13.3 9.8	12.9 10.0	12.8 9.3	12.7 8.9	13.5 9.7
11	12.6 9.7	NR NR	13.9 10.2	13.5 10.1	13.1 9.8	12.7 9.6	13.2 9.4	13.7 9.4	27	NR NR	NR NR	13.6 9.6	12.8 9.5	13.1 10.0	13.3 9.6	12.8 9.0	13.3 9.7
12	12.9 9.8	NR NR	13.3 9.4	13.2 9.9	13.1 10.1	12.7 9.2	13.4 9.4	13.5 9.3	28	NR NR	NR NR	13.3 9.4	12.6 9.5	13.3 10.0	13.0 9.3	12.8 9.2	12.9 9.5
13	13.0 9.7	NR NR	13.2 9.5	13.2 9.8	12.8 9.8	12.7 9.1	13.2 9.1	13.2 9.3	29	NR NR	NR NR	13.1 9.4	12.6 9.5	12.9 9.6	12.7 9.2	12.9 9.2	12.4 9.2
14	13.0 9.6	NR NR	13.2 9.5	12.9 9.8	12.5 9.7	12.8 9.0	13.2 9.2	12.9 9.3	30	NR NR	NR NR	12.8 9.5		13.0 9.9	12.6 9.1	12.6 9.1	12.3 9.2
15	13.1 9.6	NR NR	12.9 9.4	12.5 9.7	12.6 9.6	12.6 8.7	13.1 9.2	12.6 9.3	31		NR NR	12.8 9.5		12.8 9.4		12.5 9.1	
16	12.9 9.6	NR NR	12.6 9.3	12.5 9.6	12.6 9.5	12.4 8.6	12.8 9.0	13.3 9.8									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 321

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SACRAMENTO RIVER AT RIO VISTA

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	7.2 2.3	7.2 1.9	6.8 2.0	7.4 2.7	6.7 2.7	6.5 2.2	6.3 2.2	6.3 2.1	17	6.6 2.2	6.9 2.2	6.2 2.0	6.8 2.7	6.9 2.3	6.5 1.8	6.4 2.2	7.2 3.2
2	7.5 2.3	7.3 2.1	6.3 1.8	7.1 3.4	6.4 2.5	6.0 2.0	6.1 2.2	6.6 2.3	18	6.9 2.2	6.7 2.2	5.8 1.9	7.2 3.1	7.1 2.3	6.5 1.9	6.1 1.7	7.1 3.3
3	7.4 2.6	7.1 2.1	5.9 1.7	6.8 2.9	6.3 2.4	5.9 NR	6.1 2.1	7.2 2.9	19	6.6 2.5	6.4 2.1	6.0 2.0	7.1 2.7	7.0 2.3	6.3 1.9	6.4 1.9	7.1 2.8
4	7.1 2.3	6.6 2.0	6.0 1.7	6.7 2.9	6.3 2.5	NR NR	6.0 2.3	7.8 3.8	20	6.2 2.2	6.3 2.1	6.3 2.3	6.7 2.1	7.0 2.2	6.1 2.2	6.4 2.6	7.0 2.1
5	6.5 2.1	6.0 1.9	6.2 2.0	7.0 2.9	6.3 2.5	NR 2.3	6.0 2.2	7.8 3.9	21	5.9 2.1	6.2 2.3	7.2 2.9	6.8 2.1	7.1 2.5	6.5 3.0	6.7 2.4	6.9 2.1
6	6.3 1.8	6.0 1.8	6.3 2.3	6.8 2.6	6.2 2.2	6.1 2.5	6.2 2.3	7.8 3.3	22	5.6 1.8	6.3 2.3	7.2 2.9	7.1 2.1	7.2 2.5	6.7 2.4	6.8 2.3	7.3 2.3
7	6.2 2.0	6.4 2.3	6.6 2.6	7.0 2.9	6.6 2.7	6.3 2.3	NR NR	7.7 2.8	23	5.7 1.9	6.6 2.7	7.1 2.4	6.8 1.8	7.3 2.9	6.6 2.3	6.8 2.2	7.4 2.6
8	6.1 2.2	6.7 2.6	7.1 2.6	8.6 4.0	6.6 NR	6.4 2.6	NR NR	7.8 2.5	24	5.9 2.1	7.1 2.9	7.4 2.6	7.0 1.9	7.1 2.7	6.6 2.1	7.0 2.2	7.7 2.9
9	6.2 2.3	6.9 2.9	6.9 2.5	8.6 3.5	NR NR	6.6 2.6	NR NR	8.0 2.5	25	6.4 2.4	7.5 2.9	7.8 2.8	7.2 2.3	7.1 2.9	6.5 2.0	6.8 1.8	7.7 2.8
10	6.5 2.6	6.8 2.5	7.4 2.7	7.9 3.3	6.9 2.6	6.7 2.6	NR NR	8.1 2.5	26	6.4 2.5	7.0 2.2	7.7 2.4	7.4 2.6	7.0 2.9	6.8 2.2	6.7 1.7	7.5 2.7
11	6.6 2.7	6.8 2.3	7.8 3.2	7.7 3.2	7.3 2.8	6.8 2.6	NR NR	7.8 2.2	27	6.6 2.2	7.1 2.0	7.6 2.4	6.9 2.3	7.2 3.0	7.3 2.4	6.7 1.8	7.2 2.6
12	6.8 2.8	7.0 2.6	7.2 2.3	7.4 3.1	7.3 3.0	6.8 2.1	NR NR	7.5 2.1	28	6.8 2.0	7.4 2.1	7.3 2.1	6.6 2.4	7.4 2.9	7.0 2.2	6.8 2.1	6.9 2.6
13	6.9 2.6	6.5 1.7	7.1 2.2	7.3 2.9	7.1 2.8	6.8 2.0	NR NR	7.2 2.2	29	7.0 1.9	7.6 2.2	7.1 2.3	6.6 2.4	7.0 2.6	6.7 2.1	6.8 2.2	6.4 2.2
14	7.0 2.6	6.4 1.7	7.1 2.2	7.1 2.7	6.8 2.7	7.0 1.8	NR NR	6.9 2.2	30	7.2 1.8	7.9 2.5	6.9 2.3		7.1 3.0	6.5 2.1	6.5 2.1	6.2 2.3
15	7.0 2.6	6.6 1.9	6.8 2.2	6.7 2.7	6.8 2.7	6.6 1.6	NR NR	6.6 2.2	31		7.4 2.5	6.8 2.3		6.8 2.4		6.3 2.1	
16	6.8 2.2	6.8 2.1	6.5 2.1	6.6 2.6	6.8 2.3	6.5 1.4	NR NR	7.3 3.0									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record

NOTE: Single daily values indicate daily mean stage only.

TABLE 32

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
THREEMILE SLOUGH AT SACRAMENTO RIVER

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan	Feb	Mar	Apr	May	June
1	13.6 8.8	13.6 8.4	13.2 8.5	13.9 9.2	13.1 9.2	12.8 8.7	12.6 8.6	12.7 8.6	17	13.1 8.7	13.3 8.7	12.6 8.5	13.1 9.2	13.2 8.8	12.9 8.2	12.8 8.6	13.6 9.7
2	13.9 9.1	13.7 8.4	12.8 8.3	13.5 9.9	12.8 9.0	12.3 8.5	12.4 8.6	13.0 8.8	18	13.3 [illegible].7	13.1 8.7	12.3 8.5	13.5 9.6	13.4 8.8	12.[illegible] 8.3	12.5 8.2	13.5 9.7
3	13.8 9.1	13.5 8.6	12.4 8.3	13.2 9.4	12.7 8.9	12.3 8.6	12.4 8.6	13.6 9.4	19	13.0 9.0	12.8 8.6	12.4 8.6	13.4 9.2	13.4 8.8	12.6 8.4	12.8 8.3	13.5 9.3
4	13.5 8.8	13.0 8.6	12.4 8.3	13.2 9.4	12.7 9.0	12.1 8.7	12.4 8.8	14.1 10.3	20	12.6 8.6	12.7 8.6	12.8 8.9	13.1 8.6	13.3 8.7	12.5 8.6	12.8 9.0	13.4 8.7
5	12.9 8.6	12.4 8.4	12.6 8.6	13.4 9.4	12.7 9.0	12.3 8.8	12.4 8.7	14.1 10.4	21	12.3 8.6	12.6 8.8	13.6 9.4	13.2 8.6	13.5 8.9	12.8 9.4	13.1 8.9	13.3 8.7
6	12.7 8.3	12.3 8.3	12.7 8.8	13.2 9.1	12.6 8.6	12.5 9.0	12.6 8.8	14.1 9.8	22	12.0 8.4	12.7 8.8	13.6 9.4	13.4 8.5	13.5 9.0	13.1 8.9	13.1 8.8	13.7 8.8
7	12.6 8.5	12.8 8.7	13.0 9.1	13.4 9.3	13.0 9.1	12.8 8.8	12.8 9.1	14.1 9.3	23	12.1 8.4	13.0 9.1	13.5 8.9	13.2 8.2	13.6 9.3	12.9 8.8	13.2 8.6	13.7 9.0
8	12.5 8.7	13.1 9.1	13.5 9.1	14.8 10.5	12.9 8.9	12.8 9.1	13.1 9.1	14.2 9.0	24	12.3 8.5	13.6 9.4	13.8 9.1	13.3 8.4	13.4 9.2	13.0 8.6	13.4 8.7	14.0 9.4
9	12.6 8.8	13.4 9.4	13.4 9.0	14.9 10.0	13.2 9.1	13.0 9.1	13.3 8.9	14.4 9.0	25	12.8 8.8	13.9 9.4	14.2 9.3	13.6 8.8	13.4 9.3	12.9 8.4	13.1 8.4	14.0 9.2
10	12.9 9.1	13.2 9.0	13.9 9.2	14.2 9.7	13.2 9.0	13.0 9.2	13.4 8.7	14.4 9.0	26	12.8 8.9	13.4 8.7	14.1 8.9	13.7 9.1	13.3 9.4	13.2 8.6	13.0 8.2	13.8 9.1
11	13.0 9.2	13.2 8.8	14.3 9.7	14.0 9.7	13.6 9.2	13.2 9.1	13.6 8.7	14.2 8.7	27	13.0 8.7	13.5 8.5	14.0 8.8	13.2 8.8	13.5 9.5	13.6 8.9	13.1 8.3	13.6 9.1
12	13.2 9.2	13.4 9.1	13.7 8.8	13.7 9.5	13.6 9.5	13.2 8.6	13.9 8.7	13.9 8.6	28	13.3 8.5	13.8 8.6	13.7 8.6	13.0 8.9	13.7 9.4	13.4 8.7	13.2 8.6	13.3 9.0
13	13.3 9.1	13.0 8.3	13.5 8.7	13.7 9.3	13.4 9.2	13.2 8.5	13.6 8.3	13.6 8.7	29	13.5 8.5	14.0 8.7	13.6 8.8	13.0 9.2	13.3 9.0	13.1 8.5	13.2 8.6	12.7 8.7
14	13.4 9.1	12.9 8.2	13.6 8.7	13.4 9.1	13.1 9.2	13.3 8.3	13.7 8.5	13.3 8.7	30	13.6 8.4	14.4 9.0	13.3 8.8		13.4 9.4	12.9 8.5	12.9 8.6	12.6 8.7
15	13.4 9.0	13.0 8.4	13.3 8.6	13.0 9.1	13.1 9.2	12.9 8.1	13.5 8.6	13.0 8.7	31		13.8 8.5	13.2 8.8		13.1 8.8		12.7 8.6	
16	13.2 9.0	13.2 8.6	12.9 8.6	13.0 9.1	13.1 8.8	12.8 7.9	13.1 8.4	13.7 9.5									

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
YOLO BYPASS AT LINDSEY SLOUGH

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan	Feb.	Mar	Apr.	May	June
1	7.3 2.2	7.3 1.8	6.9 1.8	7.5 2.5	6.8 2.5	6.5 2.0	6.3 2.0	6.3 1.9	17	6.7 2.0	7.0 1.9	6.2 1.8	6.8 2.6	7.0 2.2	6.6 1.6	6.5 2.1	7.2 3.0
2	7.6 2.2	7.4 1.8	6.4 1.6	7.1 3.2	6.4 2.3	6.0 1.9	6.1 2.0	6.6 2.1	18	7.0 2.0	6.8 2.0	5.8 1.8	7.2 3.0	7.1 2.2	6.5 1.7	6.2 1.5	7.2 3.0
3	7.4 2.4	7.2 1.9	6.0 1.5	6.9 2.7	6.3 2.2	5.9 2.0	6.1 1.9	7.3 2.8	19	6.7 2.3	6.4 1.9	6.0 1.8	7.1 2.5	7.1 2.1	6.3 1.8	6.5 1.7	7.1 2.6
4	7.1 2.1	6.7 1.9	6.0 1.6	6.8 2.8	6.3 2.3	5.7 2.0	6.2 2.2	7.8 3.7	20	6.3 2.0	6.3 1.9	6.4 2.2	6.8 2.0	7.0 2.0	6.2 2.0	6.5 2.5	7.0 1.7
5	6.6 1.9	6.1 1.7	6.3 1.9	7.1 2.8	6.4 2.3	5.9 2.2	6.1 2.0	7.8 3.7	21	6.0 2.0	6.2 2.1	7.3 2.7	6.9 1.9	7.2 2.3	6.6 2.8	6.8 2.3	6.8 1.9
6	6.3 1.7	6.0 1.6	6.4 2.2	6.8 2.4	6.2 2.0	6.2 2.4	6.3 2.2	7.8 3.1	22	5.7 1.6	6.3 2.2	7.2 2.7	7.0 1.8	7.2 2.4	6.8 2.2	6.9 2.1	7.3 2.1
7	6.2 1.8	6.5 2.0	6.7 2.4	7.1 2.7	6.7 2.5	6.5 2.1	6.5 2.5	7.7 2.6	23	5.8 1.7	6.6 2.5	7.1 2.2	6.7 1.4	7.4 2.7	6.7 2.1	6.9 2.1	7.4 2.3
8	6.1 2.0	6.8 2.5	7.1 2.4	8.6 3.9	6.6 2.3	6.5 2.5	6.9 2.4	7.9 2.3	24	6.0 1.9	7.2 2.8	7.5 2.4	7.0 1.7	7.2 2.6	6.7 1.9	7.1 2.0	7.7 2.7
9	6.3 2.2	7.0 2.8	6.9 2.3	8.7 3.5	6.9 2.5	6.7 2.5	7.0 2.2	8.0 2.3	25	6.4 2.2	6.5 2.7	7.9 2.6	7.3 2.1	7.1 2.7	6.6 1.8	6.9 1.7	7.7 2.5
10	6.5 2.4	6.9 2.4	7.4 2.5	8.0 3.6	7.0 2.5	6.7 2.5	7.2 2.0	8.1 2.2	26	6.5 2.3	7.0 2.0	7.8 2.2	7.4 2.4	7.1 2.7	6.9 2.0	6.7 1.6	7.5 2.4
11	6.6 2.5	6.8 2.1	8.0 3.0	8.0 3.9	7.3 2.7	6.9 2.3	7.4 2.1	7.8 1.9	27	6.7 2.0	7.1 1.8	7.7 2.1	6.9 2.0	7.3 2.8	7.4 2.3	6.8 1.6	7.2 2.4
12	6.9 2.6	7.1 [illegible]	7.2 2.0	7.8 3.6	7.4 3.0	6.9 1.9	7.6 2.0	7.5 1.9	28	7.0 1.8	7.5 1.9	7.4 1.9	6.6 2.0	7.4 2.7	7.1 2.0	6.8 2.0	7.0 2.4
13	7.0 2.5	6.4 1.5	7.2 2.1	7.6 3.1	7.2 2.7	6.9 1.8	7.3 1.6	7.2 1.9	29	7.2 1.8	7.7 2.0	7.2 2.0	6.7 2.2	7.0 2.4	6.8 1.9	6.9 2.0	6.4 2.0
14	7.0 2.4	6.5 1.5	7.2 2.0	7.2 3.1	6.7 2.5	7.0 1.6	7.4 1.8	6.9 2.0	30	7.3 1.7	8.0 2.2	6.9 2.0		7.2 2.8	6.6 1.9	6.6 1.9	6.3 2.1
15	7.1 2.4	6.7 1.7	6.9 1.9	6.8 2.8	6.9 2.6	6.6 1.3	7.2 1.9	6.7 2.0	31		7.4 1.8	6.8 2.1		6.8 2.2		6.3 1.9	
16	6.9 2.0	6.9 1.9	6.6 1.9	6.6 2.6	6.8 2.0	6.5 1.2	6.8 1.7	7.4 2.9									

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
SAN JOAQUIN RIVER AT ANTIOCH

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	13.4 8.9	13.5 8.6	13.1 8.7	13.7 9.3	12.9 9.3	12.6 8.7	12.5 8.7	12.5 8.7	17	12.9 8.8	13.2 8.8	12.4 8.6	12.9 9.2	13.0 8.9	12.7 8.3	12.6 8.5	13.4 9.7
2	13.7 9.2	13.5 8.6	12.6 8.5	13.3 10.1	12.7 9.1	12.1 8.6	12.3 8.7	12.8 8.9	18	13.1 8.8	12.9 8.8	12.1 8.6	13.2 9.6	13.2 8.9	12.6 8.4	12.3 8.4	13.3 9.7
3	13.6 9.2	13.4 8.7	12.2 8.5	13.0 9.5	12.6 9.0	12.1 8.7	12.3 8.7	13.4 9.5	19	12.8 9.0	12.6 8.8	12.3 8.7	13.2 9.3	13.2 8.9	12.4 8.5	12.6 8.5	13.2 9.3
4	13.3 8.9	12.8 8.7	12.3 8.5	13.0 9.5	12.6 9.1	12.0 8.7	12.2 8.8	13.4 10.2	20	12.5 8.8	12.5 8.8	12.6 9.0	12.9 8.7	13.2 8.9	12.6 8.6	12.6 9.1	13.2 9.0
5	12.8 8.7	12.3 8.5	12.5 8.7	13.2 9.5	12.7 9.1	12.1 8.9	12.4 8.8	13.8 10.3	21	12.2 8.7	12.5 8.9	13.4 9.5	13.0 8.7	13.3 9.0	12.6 9.2	12.9 9.0	13.2 8.8
6	12.5 8.5	12.2 8.4	12.6 9.0	13.0 9.2	12.4 8.8	12.3 9.0	12.4 8.8	13.9 9.8	22	11.9 8.6	12.6 9.0	13.4 9.5	13.3 8.7	13.3 9.1	12.9 9.0	12.9 8.8	13.5 9.0
7	12.4 8.6	12.6 8.8	12.9 9.2	13.2 9.5	12.8 9.1	12.6 8.8	12.6 9.1	13.9 9.4	23	12.0 8.5	12.9 9.3	13.3 9.0	13.1 8.4	13.4 9.3	12.8 8.9	13.1 8.7	13.6 9.2
8	12.3 8.8	12.9 9.2	13.4 9.3	14.4 10.4	12.7 8.9	12.6 9.1	12.9 9.2	14.0 9.1	24	12.2 8.6	13.4 9.6	13.6 9.3	13.1 8.5	13.2 9.3	12.8 8.7	13.2 8.8	13.8 9.5
9	12.5 8.9	13.2 9.6	13.3 9.2	14.6 10.0	12.9 9.0	12.8 9.2	13.1 9.0	14.1 9.1	25	12.6 9.0	13.7 9.5	14.1 9.5	13.3 9.0	13.2 9.3	12.7 8.6	13.0 8.5	13.9 9.4
10	12.7 9.2	13.1 9.2	13.7 9.4	13.9 9.6	13.0 9.1	12.8 9.2	13.2 8.8	14.1 9.1	26	12.6 9.1	13.3 8.8	14.0 9.1	13.5 9.2	13.1 9.5	13.0 8.8	12.8 8.4	13.7 9.3
11	12.8 9.3	13.1 8.9	14.1 9.7	13.6 9.5	13.3 9.3	13.0 9.1	13.4 8.8	13.9 8.8	27	12.8 8.8	13.4 8.7	13.8 9.0	13.0 8.9	13.3 9.6	13.5 9.0	12.9 8.4	13.4 9.3
12	13.0 9.3	13.2 9.2	13.5 8.9	13.4 9.4	13.4 9.6	13.0 8.7	13.6 8.7	13.6 8.7	28	13.1 8.6	13.7 8.8	13.5 8.8	12.8 9.1	13.5 9.5	13.2 8.8	12.9 8.7	13.1 9.1
13	13.2 9.2	13.0 8.5	13.3 8.9	13.3 9.2	13.1 9.3	13.0 8.6	13.4 8.4	13.4 8.7	29	13.3 8.6	13.9 8.9	13.3 8.9	12.9 9.1	13.1 9.2	12.9 8.7	13.0 8.7	12.6 8.9
14	13.2 9.1	12.8 8.4	13.4 8.9	13.1 9.1	12.8 9.2	13.1 8.4	13.4 8.6	13.0 8.8	30	13.4 8.5	14.2 9.1	13.1 9.0		13.2 9.4	12.7 8.6	12.7 8.7	12.4 8.8
15	13.3 9.1	12.9 8.5	13.1 8.8	12.7 9.1	12.8 9.2	12.8 8.1	13.3 8.6	12.8 8.8	31		13.6 9.1	13.0 9.0		12.9 8.9		12.6 8.7	
16	13.1 8.8	13.1 8.7	12.8 8.6	12.7 9.0	12.9 9.1	12.6 8.0	12.9 8.5	13.4 9.4									

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
SACRAMENTO RIVER AT COLLINSVILLE

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb	Mar	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	6.7 2.0	6.7 1.7	6.3 1.8	6.9 2.4	6.1 2.5	5.8 1.8	5.6 1.7	5.7 1.8	17	6.1 1.9	6.4 1.9	5.6 1.7	6.2 2.3	6.2 2.0	5.9 1.4	5.7 1.6	6.6 2.8
2	6.9 2.2	6.8 1.8	5.8 1.6	6.5 3.2	5.8 2.2	5.3 1.7	5.4 1.8	6.0 2.0	18	6.3 1.9	6.1 1.9	5.3 1.7	6.5 2.7	6.4 2.0	5.8 1.5	5.5 1.4	6.5 2.8
3	6.8 2.2	6.6 1.8	5.4 1.5	6.3 2.6	5.8 2.2	5.3 1.9	5.5 1.8	6.5 2.6	19	6.0 2.1	5.8 1.9	5.5 1.8	6.5 2.4	6.4 2.0	5.7 1.5	5.8 1.6	6.5 2.5
4	6.5 2.0	6.1 1.8	5.5 1.6	6.2 2.6	5.8 2.2	5.2 1.9	5.4 1.9	6.9 3.3	20	5.6 1.9	5.7 1.8	5.8 2.1	6.2 1.8	6.4 2.0	5.8 1.7	6.1 2.2	6.4 1.9
5	6.0 1.9	5.5 1.7	5.7 1.8	6.4 2.6	5.8 2.3	5.3 2.0	5.6 1.8	7.0 3.3	21	5.3 1.8	5.6 2.0	6.6 2.6	6.2 1.8	6.5 2.1	5.8 2.3	6.1 2.1	6.4 1.9
6	5.7 1.6	5.4 1.6	5.8 2.1	6.2 2.2	5.6 1.9	5.5 2.2	5.8 1.9	7.1 2.9	22	5.1 1.7	5.8 2.1	6.6 2.6	6.5 1.7	6.5 2.1	6.1 2.1	6.1 1.9	6.7 2.1
7	5.6 1.7	5.8 2.0	6.1 2.3	6.4 2.5	6.0 2.2	5.8 2.0	5.8 2.2	7.1 2.5	23	5.2 1.6	6.1 2.4	6.5 2.1	6.3 1.6	6.6 2.4	6.0 2.0	6.3 1.9	6.7 2.2
8	5.6 1.9	6.2 2.4	6.6 2.3	7.5 3.5	5.9 2.0	5.8 2.2	6.1 2.3	7.2 2.3	24	5.4 1.8	6.6 2.7	6.8 2.3	6.4 1.6	6.5 2.3	6.1 1.8	6.5 1.9	6.9 2.5
9	5.7 2.1	6.4 2.7	6.4 2.3	7.8 3.1	6.2 2.1	6.0 2.3	6.3 2.1	7.3 2.2	25	5.8 2.1	6.9 2.6	7.3 2.5	6.7 2.0	6.4 2.4	6.0 1.7	6.2 1.6	7.0 2.4
10	5.9 2.3	6.3 2.3	6.9 2.5	7.1 2.7	6.2 2.2	6.0 2.3	6.4 1.9	7.4 2.2	26	5.9 2.2	6.5 1.9	7.2 2.2	6.7 2.3	6.3 2.6	6.3 1.9	6.0 1.4	6.8 2.3
11	6.0 2.4	6.3 2.0	7.3 2.8	6.9 2.6	6.6 2.4	6.2 2.2	6.6 1.9	7.2 1.9	27	6.1 1.9	6.6 1.7	7.1 2.1	6.3 2.0	6.5 2.7	6.7 2.2	6.1 1.5	6.5 2.3
12	6.3 2.4	6.4 2.3	6.7 2.0	6.7 2.5	6.6 2.7	6.2 1.8	6.9 1.8	6.9 1.9	28	6.3 1.8	6.9 1.9	6.8 1.9	6.0 2.0	6.7 2.6	6.4 1.9	6.1 1.8	6.2 2.1
13	6.4 2.3	6.1 1.5	6.6 2.0	6.6 2.3	6.4 2.4	6.2 1.7	6.7 1.5	6.6 1.9	29	6.5 1.7	7.1 2.0	6.6 2.0	6.1 2.4	6.3 2.3	6.1 1.8	6.2 1.8	5.7 1.9
14	6.4 2.2	6.0 1.5	6.6 2.0	6.4 2.2	6.1 2.3	6.3 1.5	6.7 1.7	6.3 1.9	30	6.7 1.6	7.3 2.1	6.3 2.1		6.4 2.5	5.9 1.7	5.9 1.8	5.6 1.9
15	6.5 2.2	6.1 1.7	6.3 1.8	5.9 2.2	6.1 2.3	6.0 1.3	6.5 1.7	6.0 2.0	31		6.8 2.1	6.2 2.1		6.1 2.0		5.7 1.8	
16	6.3 2.0	6.3 1.8	6.0 1.7	6.0 2.2	6.1 2.0	5.9 1.1	6.1 1.6	6.6 2.5									

Crest Stages:	Date Time Stage

NR — No Record

NOTE : Single daily values indicate daily mean stage only.

TABLE 326

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	54.4	54.5	54.6	55.3	55.3	55.7	56.1	55.6	17	54.2	54.7	55.3	56.4	55.0	55.3	55.3	54.9
2	54.4	54.4	54.6	55.6	55.3	55.4	56.0	55.5	18	54.3	54.7	55.3	56.2	55.0	55.3	55.3	54.8
3	54.4	54.5	54.6	55.6	55.3	55.4	55.7	55.4	19	54.4	54.7	55.4	56.0	55.0	55.2	55.3	54.8
4	54.3	54.5	54.6	56.0	55.3	55.2	55.6	55.3	20	54.4	54.6	55.5	55.8	55.0	55.1	55.4	54.8
5	54.3	54.4	54.7	56.1	55.3	55.2	55.5	55.2	21	54.4	54.6	55.3	55.8	54.9	55.0	55.4	54.8
6	54.2	54.5	54.8	56.1	55.3	55.2	55.4	55.0	22	54.4	54.6	55.3	55.7	54.8	55.0	55.5	54.9
7	54.1	54.6	54.8	56.0	55.3	55.2	55.3	55.0	23	54.4	54.6	55.2	55.5	54.6	55.0	55.6	54.9
8	54.0	54.6	54.8	56.0	55.3	55.2	55.3	55.0	24	54.4	54.6	55.2	55.4	54.8	55.1	55.7	54.9
9	54.1	54.6	54.9	56.0	55.2	55.1	55.3	54.9	25	54.4	54.5	55.2	55.4	54.9	55.2	55.7	54.8
10	54.2	54.7	55.2	56.2	55.2	55.0	55.4	54.9	26	54.4	54.5	55.2	55.4	55.0	55.3	55.6	54.8
11	54.2	54.6	55.4	57.4	55.2	55.1	55.5	54.8	27	54.3	54.6	55.2	55.4	55.1	55.5	55.6	54.8
12	54.2	54.4	55.3	59.1	55.1	55.1	55.6	54.8	28	54.3	54.7	55.1	55.4	55.2	55.7	55.6	54.7
13	54.3	54.5	55.3	59.2	55.1	55.3	55.5	54.8	29	54.3	54.6	55.1	55.3	55.5	56.0	55.8	54.7
14	54.3	54.6	55.3	58.3	55.1	55.3	55.4	54.9	30	54.4	54.6	55.2		56.0	56.1	55.8	54.7
15	54.2	54.7	55.4	57.3	55.0	55.4	55.4	54.9	31		54.6	55.2		55.8		55.8	
16	54.3	54.7	55.6	56.7	55.0	55.4	55.4	54.9									

Crest Stages:				
	Date	2-12-60	3-30-60	5- 1-60
	Time	9:00 PM	6:00 AM	11:00 PM
	Stage	59.5	56.0	56.2

NR — No Record

TABLE 327

DAILY MEAN GAGE HEIGHT
MERCED RIVER BELOW SNELLING

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec.	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	5.0	5.0	5.1	5.3	5.4	5.2	5.4	5.8	17	5.1	5.1	5.1	5.4	5.2	5.6	5.2	5.6
2	5.0	5.0	5.1	5.5	5.4	5.2	5.4	5.6	18	5.1	5.1	5.1	5.4	5.4	5.6	5.6	5.7
3	5.0	5.1	5.1	5.2	5.4	5.2	5.4	5.8	19	5.1	5.1	5.2	5.6	5.7	5.6	5.6	5.7
4	5.0	5.1	5.1	5.1	5.5	5.4	5.3	5.7	20	5.2	5.1	5.3	5.5	5.5	5.5	5.6	5.8
5	5.0	5.1	5.0	5.2	5.5	5.4	5.3	5.8	21	5.2	5.1	5.2	5.4	5.4	5.5	5.7	5.8
6	5.1	5.1	5.0	5.3	5.4	5.4	5.3	5.8	22	5.1	5.1	5.1	5.4	5.4	5.4	5.7	5.8
7	5.1	5.1	5.0	5.2	5.4	5.4	5.4	5.8	23	5.1	5.1	5.1	5.6	5.5	5.5	5.8	6.0
8	5.1	5.1	5.0	5.4	5.3	5.3	5.3	5.8	24	5.2	5.2	5.2	5.6	5.4	5.4	5.8	6.0
9	5.1	5.1	5.0	5.9	5.3	5.3	5.2	5.8	25	5.2	5.2	5.2	5.4	5.4	5.4	5.7	6.0
10	5.1	5.1	5.2	6.5	5.2	5.1	5.2	5.7	26	5.1	5.2	5.2	5.0	5.4	5.6	5.8	6.0
11	5.1	5.1	5.1	5.6	5.2	5.0	5.3	5.7	27	5.1	5.1	5.2	5.4	5.5	5.9	5.8	6.0
12	5.1	5.1	5.1	5.3	5.3	5.0	5.4	5.6	28	5.0	5.2	5.1	5.4	5.4	5.6	5.8	6.0
13	5.1	5.1	5.1	5.3	5.2	5.0	5.4	5.6	29	5.1	5.1	5.1	5.4	5.2	5.6	5.8	6.0
14	5.1	5.1	5.1	5.5	5.2	5.0	5.2	5.7	30	5.0	5.1	5.1		5.2	5.5	5.8	6.0
15	5.1	5.1	5.1	5.5	5.2	5.6	5.1	5.6	31		5.1	5.1		5.2		5.8	
16	5.1	5.1	5.1	5.4	5.2	5.7	5.2	5.6									

Crest Stages			
	Date	2-10-60	4-27-60
	Time	6:45 AM	9:00 AM
	Stage	7.9	6.4

E - Estimated NR - No Record

TABLE 328

DAILY MEAN GAGE HEIGHT
MERCED RIVER AT CRESSEY

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	0.2	0.4	0.5	0.6	0.6	0.5	0.9	0.6	17	0.3	0.5	0.6	0.8	0.5	0.6	0.4	0.4
2	0.3	0.4	0.5	0.7	0.6	0.5	0.8	0.6	18	0.3	0.5	0.6	0.8	0.5	0.6	0.4E	0.4
3	0.3	0.4	0.5	0.8	0.6	0.5	0.7	0.4	19	0.4	0.5	0.6	0.8	0.4	0.6	0.4E	0.3
4	0.2	0.4	0.5	0.8	0.6	0.5	0.7	0.4	20	0.4	0.5	0.6	0.9	0.6	0.6	0.4E	0.4
5	0.2	0.4	0.5	0.7	0.6	0.5	0.6	0.4	21	0.4	0.5	0.6	0.9	0.6	0.5	0.4	0.4
6	0.3	0.4	0.5	0.7	0.6	0.6	0.6	0.4	22	0.3	0.5	0.6	0.8	0.6	0.5	0.5	0.4
7	0.3	0.4	0.5	0.7	0.6	0.6	0.6	0.5	23	0.4	0.5	0.6	0.7	0.5	0.5	0.5	0.4
8	0.3	0.4	0.5	0.8	0.6	0.6	0.6	0.5	24	0.4	0.5	0.6	0.7	0.5	0.4	0.6	0.5
9	0.3	0.4	0.5	1.5	0.5	0.6	0.5	0.4	25	0.4	0.5	0.6	0.8	0.5	0.4	0.6	0.6
10	0.3	0.4	0.6	3.4	0.5	0.6	0.5	0.4	26	0.3	0.6	0.7	0.7	0.5	0.5	0.6	0.6
11	0.3	0.4	0.6	2.7	0.5	0.6	0.5	0.4	27	0.3	0.5	0.7	0.6	0.5	0.7	0.6	0.6
12	0.3	0.4	0.7	1.5	0.5	0.5	0.5	0.4	28	0.3	0.5	0.6	0.6	0.6	1.4	0.6	0.6
13	0.3	0.4	0.6	1.1	0.5	0.5	0.4	0.4	29	0.4	0.5	0.6	0.6	0.7	1.2	0.6	0.5
14	0.3	0.4	0.6	0.9	0.5	0.4	0.4	0.4	30	0.4	0.5	0.6		0.6	0.9	0.7	0.4
15	0.3	0.4	0.6	0.9	0.5	0.4	0.5	0.4	31		0.5	0.6		0.6		0.6	
16	0.3	0.5	0.6	0.9	0.5	0.4	0.4	0.5									

Crest Stages:			
	Date	2-10-60	4-28-60
	Time	8:00 PM	9:00 AM
	Stage	4.7	1.7

E - Estimated NR - No Record

TABLE 329

DAILY MEAN GAGE HEIGHT
MERCED RIVER NEAR LIVINGSTON

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	1.0	1.2	1.3	1.4	1.5	1.2	1.7	1.3	17	1.1	1.2	1.4	1.8	1.2	1.2	1.4	1.2
2	1.0	1.1	1.3	1.4	1.5	1.2	1.6	1.3	18	1.1	1.2	1.4	1.7	1.2	1.3	1.3	1.0
3	1.0	1.2	1.3	1.4	1.4	1.2	1.6	1.2	19	1.1	1.2	1.4	1.7	1.2	1.3	1.2	1.3
4	1.0	1.1	1.3	1.5	1.4	1.3	1.5	1.1	20	1.1	1.2	1.4	1.7	1.2	1.2	1.1	1.2
5	1.0	1.2	1.3	1.5	1.4	1.4	1.5	1.3	21	1.1	1.2	1.4	1.8	1.4	1.2	1.2	1.1
6	1.0	1.2	1.3	1.5	1.4	1.3	1.4	1.2	22	1.1	1.2	1.4	1.7	1.3	1.3	1.3	1.0
7	1.0	1.2	1.3	1.5	1.4	1.3	1.5	1.2	23	1.1	1.2	1.4	1.6	1.2	1.2	1.2	1.0
8	1.0	1.2	1.3	1.5	1.4	1.4	1.5	1.5	24	1.1	1.3	1.4	1.6	1.2	1.4	1.4	1.0
9	1.0	1.2	1.3	1.8	1.3	1.3	1.4	1.5	25	1.1	1.3	1.4	1.6	1.2	1.3	1.4	1.1
10	1.0	1.2	1.3	3.3	1.3	1.4	1.4	1.1	26	1.1	1.3	1.4	1.6	1.2	1.4	1.4	1.4
11	1.0	1.2	1.4	4.7	1.3	1.7	1.2	1.1	27	1.1	1.3	1.4	1.6	1.3	1.9	1.3	1.5
12	1.1	1.2	1.4	2.8	1.2	1.6	1.4	1.2	28	1.1	1.3	1.4	1.5	1.4	1.9	1.2	1.3
13	1.1	1.2	1.4	2.2	1.2	1.3	1.4	1.2	29	1.1	1.3	1.4	1.4	1.4	2.1	1.3	1.3
14	1.1	1.2	1.4	2.0	1.2	1.3	1.5	1.1	30	1.2	1.3	1.4		1.4	1.9	1.4	1.3
15	1.1	1.2	1.4	1.8	1.2	1.4	1.4	1.0	31		1.3	1.3		1.4		1.3	
16	1.1	1.2	1.4	1.8	1.2	1.2	1.4	1.1									

Crest Stages:									
	Date	2-11-60	2-21-60	4-11-60	4-12-60	4-27-60	4-28-60	8- 1-60	8- 1-60
	Time	3:30 AM	8:00 AM	5:30 PM	6:00 AM	7:30 AM	10:00 PM	7:30 AM	10:30 AM
	Stage	5.6	1.8	1.8	1.8	2.0	2.2	1.7	1.7

NR - No Record

TABLE 330

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER NEAR NEWMAN

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	48.1	48.3	48.4	49.2	49.3	49.1	49.5	48.9	17	48.3	48.5	49.5	50.4	48.7	48.6	48.6	48.1
2	48.1	48.3	48.5	49.5	49.3	48.9	49.4	48.7	18	48.3	48.4	49.4	50.2	48.6	48.6	48.8	48.0
3	48.1	48.3	48.5	49.6	49.2	48.8	49.1	48.5	19	48.3	48.4	49.4	50.1	48.6	48.5	48.8	48.0
4	48.1	48.4	48.5	49.8	49.2	48.7	49.0	48.4	20	48.3	48.4	49.3	49.9	48.6	48.5	48.6	48.1
5	48.2	48.4	48.5	49.9	49.1	48.7	48.8	48.4	21	48.3	48.4	49.3	49.9	48.6	48.4	48.6	48.1
6	48.1	48.4	48.6	50.0	49.0	48.6	48.7	48.3	22	48.3	48.4	49.4	49.8	48.6	48.3	48.7	48.1
7	48.0	48.4	48.6	49.9	49.0	48.6	48.7	48.3	23	48.2	48.4	49.3	49.7	48.4	48.3	48.7	48.1
8	48.0	48.4	48.6	49.9	49.0	48.5	48.6	48.4	24	48.3	48.4	49.3	49.6	48.2	48.4	48.9	48.0
9	48.0	48.4	49.0	49.9	48.9	48.5	48.6	48.4	25	48.3	48.4	49.3	49.5	48.2	48.5	49.0	47.9
10	48.1	48.4	49.4	50.2	48.9	48.5	48.6	48.3	26	48.3	48.4	49.3	49.5	48.4	48.6	49.1	48.0
11	48.1	48.4	49.6	51.7	48.9	48.6	48.7	48.1	27	48.3	48.4	49.3	49.5	48.5	49.0	48.9	48.2
12	48.2	48.4	49.6	52.6	48.9	48.8	48.6	48.0	28	48.3	48.5	49.2	49.4	48.7	49.2	48.8	48.2
13	48.2	48.4	49.6	52.6	48.8	48.7	48.7	48.1	29	48.3	48.5	49.2	49.3	48.8	49.4	49.0	48.1
14	48.2	48.4	49.6	52.0	48.8	48.7	48.7	48.1	30	48.3	48.5	49.2		49.2	49.5	49.0	48.1
15	48.2	48.4	49.6	51.2	48.8	48.6	48.7	48.1	31		48.5	49.5		49.2		49.0	
16	48.2	48.4	49.6	50.7	48.7	48.7	48.7	48.1									

Crest Stages:				
	Date	2-13-60	3-30-60	5- 1-60
	Time	3:00 AM	2:00 PM	0:30 AM
	Stage	52.7	49.3	49.6

NR — No Record

TABLE 331

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	38.2	38.4	38.5	39.3	39.8	39.2	39.8	39.2	17	38.4	38.5	39.6	40.6	38.7	38.9	39.0	38.4
2	38.2	38.4	38.5	39.4	39.7	39.1	39.6	39.0	18	38.4	38.5	39.5	40.4	38.8	38.9	39.0	38.4
3	38.3	38.4	38.6	39.6	39.5	39.0	39.4	38.9	19	38.4	38.5	39.5	40.3	38.7	38.8	39.1	38.3
4	38.2	38.4	38.5	39.7	39.3	38.9	39.2	38.8	20	38.4	38.5	39.4	40.1	38.7	38.7	39.0	38.4
5	38.3	38.5	38.6	39.9	39.2	38.8	39.0	38.6	21	38.4	38.5	39.4	40.0	38.7	38.7	39.0	38.4
6	38.3	38.5	38.6	40.0	39.2	38.8	39.0	38.6	22	38.4	38.5	39.4	40.0	38.8	38.6	39.0	38.4
7	38.2	38.4	38.6	40.0	39.1	38.8	39.0	38.6	23	38.4	38.5	39.4	39.8	38.6	38.6	39.0	38.4
8	38.2	38.5	38.7	40.0	39.1	38.7	38.9	38.6	24	38.4	38.5	39.4	39.7	38.6	38.6	39.1	38.3
9	38.2	38.6	38.9	40.0	39.0	38.7	38.9	38.7	25	38.4	38.5	39.4	39.7	38.5	38.8	39.2	38.3
10	38.2	38.5	39.3	40.4	39.0	38.7	38.8	38.6	26	38.3	38.5	39.4	39.6	38.6	38.9	39.3	38.3
11	38.3	38.5	39.5	41.4	39.1	38.8	38.9	38.4	27	38.3	38.5	39.4	39.6	38.6	39.3	39.1	38.4
12	38.3	38.4	39.6	42.3	39.0	38.9	38.9	38.3	28	38.3	38.5	39.3	39.6	38.8	39.7	39.0	38.4
13	38.3	38.4	39.6	42.6	38.9	38.9	38.9	38.4	29	38.3	38.5	39.3	39.6	38.9	39.6	39.2	38.4
14	38.3	38.4	39.6	42.2	38.9	38.9	38.9	38.5	30	38.3	38.5	39.3		39.2	39.7	39.2	38.4
15	38.3	38.4	39.6	41.5	38.8	38.8	38.9	38.5	31		38.5	39.2		39.3		39.2	
16	38.3	38.5	39.6	40.9	38.8	38.9	39.0	38.4									

Crest Stages:									
	Date	2- 7-60	2- 8-60	2-13-60	3- 1-60	3- 2-60	4-28-60	4-30-60	5- 1-60
	Time	1:00 AM	4:00 PM	12:00 Noon	5:00 PM	12:00 Noon	4:30 AM	8:00 AM	8:30 AM
	Stage	40.0	40.0	42.6	39.8	39.8	39.8	39.7	39.8

NR — No Record

TABLE 332

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT PATTERSON BRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1	32.6	32.6	32.7	33.2	33.5	32.9	33.4	32.6	17	32.7	32.7	33.5	34.4	32.2	32.4	32.6	31.5
2	32.6	32.6	32.7	33.4	33.5	32.6	33.2	32.4	18	32.7	32.7	33.4	34.2	32.1	32.3	32.6	31.6
3	32.6	32.6	32.7	33.4	33.3	32.6	33.0	32.2	19	32.7	32.7	33.4	34.0	31.9	32.2	32.7	31.6
4	32.6	32.6	32.7	33.5	33.2	32.7	32.6	32.1	20	32.8	32.7	33.4	33.9	31.9	32.0	32.6	31.8
5	32.6	32.7	32.7	33.6	33.1	32.5	32.6	32.1	21	32.7	32.7	33.3	33.8	31.9	31.9	32.5	31.8
6	32.7	32.6	32.7	33.8	33.0	32.4	32.5	32.0	22	32.7	32.7	33.3	33.8	32.0	31.8	32.6	32.4
7	32.6	32.6	32.8	33.8	33.0	32.4	32.5	32.0	23	32.7	32.6	33.3	33.6	31.8	31.9	32.6	33.0
8	32.6	32.7	32.8	33.7	33.0	32.5	32.5	31.8	24	32.7	32.7	33.3	33.6	31.6	32.2	32.6	33.0
9	32.6	32.8	32.9	33.8	32.9	32.3	32.6	31.8	25	32.7	32.7	33.3	33.5	31.6	32.2	32.6	32.8
10	32.6	32.8	33.1	34.0	32.7	32.4	32.3	31.9	26	32.6	32.6	33.3	33.4	31.8	32.3	32.6	32.9
11	32.6	32.7	33.4	34.7	32.7	32.5	32.2	31.6	27	32.6	32.7	33.3	33.4	32.1	33.0	32.4	32.9
12	32.6	32.7	33.4	35.6	32.6	32.4	32.3	31.4	28	32.6	32.6	33.3	33.4	32.5	33.4	32.3	32.7
13	32.6	32.6	33.4	35.9	32.5	32.4	32.3	31.6	29	32.6	32.7	33.2	33.4	32.6	33.3	32.4	32.7
14	32.6	32.6	33.5	35.7	32.3	32.3	32.3	31.6	30	32.6	32.6	33.2		32.9	33.3	32.6	32.8
15	32.6	32.6	33.5	35.1	32.1	32.2	32.4	31.7	31		32.7	33.2		33.1		32.6	
16	32.7	32.7	33.5	34.7	32.0	32.2	32.6	31.6									

Crest Stages:								
	Date	1-15-60	1-17-60	2- 7-60	2-13-60	3- 1-60	3-31-60	4-28-60	5- 1-60
	Time	6:00 AM	6:00 AM	7:00 AM	7:00 PM	10:00 PM	12:00 Noon	10:00 AM	3:00 PM
	Stage	33.5	33.5	33.8	35.9	33.5	33.2	33.5	33.4

E-Estimated NR-No Record

TABLE 333

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT GRAYSON

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	23.2	23.3	23.5	24.2	24.6	24.0	24.4	23.7	17	23.4	23.4	24.4	25.6	23.1	23.5	23.7	22.9
2	23.3	23.3	23.5	24.3	24.5	23.7	24.4	23.6	18	23.5	23.5	24.4	25.4	23.1	23.5	23.6	22.9
3	23.3	23.3	23.5	24.4	24.4	23.6	24.1	23.4	19	23.5	23.5	24.4	25.2	23.1	23.3	23.7	22.9
4	23.3	23.3	23.5	24.4	24.2	23.7	23.8	23.3	20	23.5	23.5	24.3	25.0	23.1	23.2	23.7	23.0
5	23.3	23.4	23.5	24.6	24.1	23.6	23.6	23.3	21	23.5	23.5	24.3	24.9	23.0	23.1	23.6	23.1
6	23.4	23.4	23.5	24.8	24.0	23.4	23.5	23.3	22	23.4	23.4	24.3	24.8	23.0	23.0	23.7	22.9
7	23.3	23.4	23.6	24.8	24.0	23.4	23.5	23.2	23	23.4	23.5	24.3	24.7	22.9	23.0	23.8	23.1
8	23.3	23.4	23.6	24.8	24.0	23.5	23.5	23.1	24	23.4	23.5	24.3	24.6	22.8	23.2	23.6	23.1
9	23.3	23.5	23.7	24.9	23.9	23.4	23.6	23.0	25	23.4	23.5	24.3	24.5	22.7	23.3	23.7	22.9
10	23.3	23.5	24.0	25.2	23.7	23.4	23.5	23.1	26	23.4	23.5	24.3	24.4	22.9	23.4	23.7	23.1
11	23.3	23.5	24.2	25.9	23.6	23.6	23.4	23.0	27	23.4	23.6	24.2	24.4	23.1	24.0	23.6	23.1
12	23.4	23.4	24.3	26.7	23.6	23.6	23.4	22.9	28	23.4	23.4	24.2	24.4	23.4	24.5	23.5	23.0
13	23.4	23.4	24.3	27.2	23.4	23.5	23.4	22.9	29	23.3	23.5	24.2	24.4	23.6	24.4	23.5	23.0
14	23.4	23.4	24.4	27.2	23.3	23.3	23.4	22.8	30	23.3	23.4	24.1		23.8	24.4	23.7	23.0
15	23.4	23.4	24.4	26.6	23.1	23.3	23.5	23.0	31		23.5	24.1		24.1		23.7	
16	23.4	23.4	24.4	26.0	22.9	23.3	23.6	22.9									

Crest Stages:							
	Date	1-17-60	2- 6-60	2-13-60	3-31-60	4-28-60	5- 1-60
	Time	6:00 AM	10:00 PM	10:00 PM	2:00 PM	2:00 PM	10:00 PM
	Stage	24.5	24.8	27.4	24.2	24.6	24.5

E-Estimated NR-No Record
* - Datum change of January 1, 1960, was made retroactive to November 1, 1959, for continuity of record in this report.

TABLE 334

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT WEST STANISLAUS IRRIGATION DISTRICT INTAKE

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	19.8	19.7	20.2	20.2	20.2	19.1	19.8	18.5	17	19.8	20.5	21.0	21.2	18.5	18.6	19.0	18.0E
2	19.7	19.9	20.1	20.3	20.3	18.8	19.7	18.4	18	19.8	20.5	20.6	21.0	18.4	18.6	19.0	17.9E
3	19.5	20.0	19.9	20.8	20.2	18.7	19.4	18.2	19	20.0	20.6	20.5	20.9	18.2	18.3	19.0	17.9E
4	19.8	20.0	20.0	20.5	20.1	18.7	19.1	18.1	20	20.0	20.4	20.8	20.9	18.3	18.2	19.0	18.2
5	19.9	20.0	20.1	20.8	19.9	18.5	18.9	18.1	21	20.0	20.2	20.6	20.7	18.3	18.0	18.9	18.3
6	19.9	20.0	20.6	20.9	19.8	18.5	18.8	18.1	22	20.0	20.0	20.7	20.5	18.1	18.1	19.0	18.2
7	19.9	19.9	20.8	20.8	19.7	18.5	18.6	18.0	23	19.9	20.4	20.8	20.4	18.3	18.3	19.1	18.1
8	19.9	19.9	20.8	20.7	19.6	18.4	18.6	18.0	24	19.8	20.5	20.4	20.3	18.2	18.7	19.0	18.2
9	19.8	20.0	20.8	20.8	19.6	18.3	18.7	18.1	25	19.9	20.4	20.3	20.3	18.2	19.0	19.0	17.9E
10	19.6	20.1	20.9	21.9	19.4	18.4	18.6	18.2	26	19.9	20.0	20.2	20.4	18.4	19.1	19.0	18.1E
11	19.8	20.1	20.7	22.8	19.3	18.6	18.3	18.2	27	19.9	19.7	20.3	20.5	18.6	19.5	18.9	18.3
12	19.9	20.0	20.8	22.5	19.0	18.7	18.4	18.1	28	19.7	19.8	20.3	20.4	18.8	20.0	18.7	18.2
13	19.9	20.1	21.1	22.4	18.9	18.8	18.4	18.2	29	19.8	19.8	20.3	20.2	19.0	20.0	18.6	18.2
14	20.0	20.2	20.9	22.2	18.8	18.5	18.6	18.2	30	19.8	20.2	20.2		19.0	19.8	18.8	18.2
15	20.0	20.1	21.1	21.8	18.6	18.2	18.8	18.1	31		20.2	20.2		19.2		18.6	
16	19.9	20.5	21.2	21.4	18.5	18.4	18.9	18.0E									

Crest Stages:								
Date	1-10-60	1-13-60	1-16-60	1-17-60	2-11-60	2-13-60	2-14-60	2-17-60
Time	0:30 AM	1:30 AM	1:00 AM	1:30 AM	2:30 PM	2:00 AM	0:15 AM	1:00 AM
Stage	21.1	21.3	21.4	21.3	23.1	22.5	22.4	21.3

NR — No Record

TABLE 335

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT LA GRANGE BRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec.	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	168.0	168.5	168.2	168.7	168.3	167.2	167.0	167.1	17	168.5	169.2	168.2	168.2	167.2	167.2	166.9	167.0
2	168.4	168.7	168.4	168.5	168.4	167.2	167.0	167.1	18	168.5	169.0	168.8	168.3	167.2	167.1	166.9	167.0
3	168.6	168.6	168.4	168.4	168.4	167.2	167.0	167.0	19	168.5	168.7	168.7	168.5	167.1	167.1	166.9	167.0
4	168.6	168.6	169.0	168.6	168.2	167.2	167.0	167.0	20	168.4	168.4	168.6	167.8	167.1	167.0	166.9	167.0
5	168.5	168.5	169.3	168.6	168.1	167.2	167.0	167.0	21	168.5	168.8	169.0	167.8	167.1	167.1	166.9	167.0
6	168.5	168.4	169.4	168.2	167.7	167.2	167.0	166.9	22	168.3	168.9	168.5	167.9	167.1	167.2	166.9	167.0
7	168.5	168.5	169.3	168.0	168.1	167.2	167.0	167.0	23	168.4	169.0	168.1	167.9	167.2	167.2	166.9	167.0
8	168.1	168.6	169.3	168.3	168.2	167.2	167.0	167.0	24	168.5	168.6	168.0	168.3	167.2	167.1	166.9	167.0
9	168.4	168.6	169.0	168.6	168.1	167.2	167.0	167.0	25	168.5	167.8	168.3	168.4	167.2	167.1	166.9	167.0
10	168.6	168.6	168.5	168.6	167.2	167.2	167.1	167.0	26	168.1	168.1	168.2	168.5	167.2	167.0	167.0	167.0
11	168.5	168.6	169.0	168.5	167.2	167.2	167.1	167.0	27	168.3	168.1	168.3	168.1	167.2	167.1	167.0	167.0
12	168.6	169.0	169.0	168.2	167.2	167.2	167.0	167.0	28	168.5	168.5	168.2	167.9	167.2	167.1	167.0	167.0
13	168.6	168.5	169.0	168.0	167.2	167.2	167.0	167.0	29	168.2	168.7	168.2	168.3	167.2	167.0	166.9	167.0
14	168.5	169.2	169.3	167.9	167.2	167.2	167.0	167.0	30	168.4	168.8	168.0		167.2	167.0	166.9	167.0
15	168.2	169.1	169.2	168.2	167.2	167.2	167.0	167.0	31		168.7	167.9		167.2		167.0	
16	168.6	169.0	168.8	168.1	167.2	167.2	166.9	167.0									

Crest Stages:	
Date	12-14-59
Time	8:15 PM
Stage	171.4

E - Estimated NR - No Record

TABLE 336

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	109.0	109.3	109.3	109.2	109.2	108.2	108.2	108.0	17	109.3	109.8	109.1	109.1	108.2	108.1	108.1	108.0
2	109.0	109.4	109.1	109.5	109.2	108.2	108.2	108.1	18	109.3	109.9	109.3	109.1	108.2	108.2	108.1	108.0
3	109.3	109.4	109.2	109.2	109.3	108.2	108.2	108.1	19	109.3	109.6	109.7	109.4	108.2	108.2	108.1	108.0
4	109.4	109.4	109.5	109.4	109.1	108.2	108.2	108.1	20	109.3	109.4	109.4	109.0	108.2	108.2	108.1	108.0
5	109.3	109.3	109.9	109.4	109.0	108.2	108.1	108.1	21	109.3	109.3	109.6	108.8	108.2	108.1	108.1	108.0
6	109.3	109.3	110.1	109.2	108.8	108.2	108.1	108.1	22	109.1	109.7	109.6	108.8	108.2	108.1	108.1	108.1
7	109.3	109.3	110.0	109.0	108.9	108.2	108.1	108.0	23	109.2	109.7	109.0	108.9	108.2	108.2	108.1	108.1
8	109.0	109.4	110.0	109.1	109.1	108.2	108.1	108.1	24	109.3	109.7	109.0	109.1	108.2	108.2	108.1	108.0
9	109.0	109.4	109.8	109.5	109.0	108.2	108.1	108.1	25	109.3	109.2	109.1	109.2	108.2	108.2	108.1	108.0
10	109.3	109.4	109.5	109.5	108.7	108.2	108.1	108.1	26	109.2	108.9	109.2	109.4	108.2	108.1	108.1	108.1
11	109.3	109.4	109.5	109.4	108.3	108.2	108.1	108.1	27	108.9	109.0	109.2	109.1	108.2	108.2	108.1	108.0
12	109.3	109.5	109.9	109.2	108.2	108.2	108.1	108.1	28	109.3	109.1	109.1	108.9	108.2	108.2	108.1	108.0
13	109.4	109.6	109.7	109.0	108.2	108.2	108.1	108.0	29	109.1	109.5	109.2	109.0	108.2	108.2	108.1	108.0
14	109.3	109.6	109.9	108.9	108.2	108.2	108.1	108.0	30	109.2	109.5	109.0		108.2	108.2	108.1	108.0
15	109.1	109.9	110.0	109.0	108.2	108.2	108.1	108.0	31		109.6	108.9		108.2		108.1	
16	109.2	109.8	109.8	109.0	108.2	108.1	108.1	108.0									

Crest Stages:		
	Date	12-15-59
	Time	1:30 AM
	Stage	111.2

E-Estimated NR-No Record

TABLE 337

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT HICKMAN BRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1	73.2	73.4	73.5	73.1	73.3	72.3	72.3	72.2	17	73.5	73.9	73.3	73.2	72.3	72.2	72.2	72.2
2	73.0	73.6	73.1	73.9	73.3	72.3	72.3	72.2	18	73.4	74.1	73.3	73.2	72.3	72.2	72.2	72.2
3	73.5	73.5	73.4	73.2	73.4	72.3	72.3	72.2	19	73.4	73.8	74.1	73.5	72.3	72.2	72.2	72.2
4	73.5	73.5	73.5	73.6	73.2	72.3	72.3	72.2	20	73.4	73.5	73.4	73.2	72.3	72.3	72.2	72.2
5	73.5	73.5	74.2	73.6	73.2	72.3	72.2	72.2	21	73.4	73.3	73.7	72.9	72.3	72.2	72.2	72.2
6	73.5	73.5	74.4	73.4	73.0	72.3	72.2	72.2	22	73.4	73.9	74.0	72.9	72.3	72.2	72.2	72.2
7	73.4	73.3	74.3	73.1	72.8	72.3	72.2	72.2	23	73.2	73.9	73.1	72.9	72.3	72.3	72.2	72.2
8	73.3	73.5	74.2	73.1	73.1	72.3	72.2	72.2	24	73.4	74.0	73.1	73.0	72.3	72.3	72.2	72.2
9	73.0	73.6	74.2	73.6	73.1	72.3	72.2	72.2	25	73.5	73.3	73.0	73.3	72.3	72.3	72.2	72.2
10	73.4	73.5	73.7	73.7	73.0	72.3	72.2	72.2	26	73.4	72.9	73.2	73.5	72.3	72.2	72.2	72.2
11	73.5	73.5	73.5	73.6	72.4	72.3	72.2	72.2	27	72.9	73.1	73.2	73.3	72.3	72.3	72.2	72.2
12	73.4	73.6	74.3	73.4	72.4	72.3	72.2	72.2	28	73.4	73.1	73.2	73.0	72.3	72.3	72.2	72.2
13	73.5	73.9	73.9	73.1	72.3	72.3	72.2	72.2	29	73.3	73.7	73.2	73.0	72.3	72.3	72.2	72.2
14	73.4	73.5	74.0	73.0	72.3	72.3	72.2	72.2	30	73.1	73.7	73.2		72.3	72.3	72.2	72.2
15	73.4	74.2	74.4	73.0	72.3	72.3	72.2	72.2	31		73.8	73.0		72.3		72.2	
16	73.3	74.1	74.1	73.2	72.3	72.3	72.2	72.2									

Crest Stages:		
	Date	1-12-60
	Time	3:00 AM
	Stage	75.5

E-Estimated NR-No Record

TABLE 338

DAILY MEAN GAGE HEIGHT
DRY CREEK NEAR MODESTO

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb	Mar.	Apr	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	67.7	67.7	67.6	68.0	67.9	68.1	68.0	68.2	17	67.7	67.6	68.0	68.2	67.8	68.4	68.5	68.1
2	67.7	67.7	67.6	68.6	67.9	68.1	67.9	68.2	18	67.7	67.6	67.9	68.2	67.8	68.4	68.6	68.2
3	67.7	67.7	67.7	68.5	67.8	68.0	67.9	68.2	19	67.7	67.6	67.8	68.1	67.8	68.3	68.5	68.2
4	67.8	67.7	67.7	68.6	67.8	67.9	67.8	68.2	20	67.7	67.6	67.7	68.1	67.9	68.4	68.5	68.2
5	67.8	67.6	67.7	68.8	67.8	67.9	67.8	68.3	21	67.7	67.6	67.6	68.0	67.9	68.3	68.4	68.2
6	67.7	67.7	67.8	68.8	67.8	67.9	68.1	68.3	22	67.6	67.6	67.6	68.0	68.0	68.2	68.5	68.1
7	67.7	67.7	67.9	68.4	67.8	68.0	68.0	68.2	23	67.7	67.7	67.7	68.0	68.1	68.3	68.6	68.1
8	67.7	67.7	67.9	68.6	67.8	68.0	68.2	68.3	24	67.7	67.7	67.8	68.0	68.2	68.7	68.6	68.0
9	67.7	67.7	67.9	72.2	67.8	68.0	68.4	68.3	25	67.7	67.7	67.8	68.0	68.2	69.0	68.6	68.1
10	67.7	67.7	67.9	75.4	67.8	68.2	68.3	68.3	26	67.7	67.7	68.0	68.0	68.3	68.5	68.5	68.1
11	67.7	67.7	67.9	74.1	67.8	68.3	68.2	68.3	27	67.7	67.6	68.1	67.9	68.3	69.1	68.4	68.1
12	67.7	67.7	68.1	70.1	67.7	68.5	68.2	68.3	28	67.7	67.7	68.2	67.9	68.9	69.5	68.3	68.1
13	67.7	67.7	68.0	69.1	67.7	68.5	68.2	68.3	29	67.7	67.6	68.2	67.9	68.5	68.8	68.3	68.1
14	67.8	67.7	67.9	68.8	67.8	68.4	68.5	68.3	30	67.7	67.6	68.1		68.2	68.2	68.3	68.1
15	67.8	67.6	68.2	68.5	67.8	68.6	68.7	68.2	31		67.6	68.0		68.2		68.3	
16	67.8	67.7	68.3	68.4	67.8	68.4	68.7	68.2									

Crest Stages:						
Date	2- 5-60	2- 9-60	2-10-60	3-28-60	4-25-60	4-28-60
Time	6:15 PM	4:15 PM	11:30 PM	2:00 PM	4:15 AM	6:30 AM
Stage	69.2	75.0	77.5	69.1	69.1	69.6

E - Estimated NR - No Record

TABLE 339

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT MODESTO

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	41.8	41.8	41.9	41.6	41.7	41.3	41.3	41.2	17	41.8	42.0	41.9	41.7	41.3	41.3	41.3	41.2
2	41.6	41.8	41.7	42.0	41.8	41.3	41.3	41.2	18	41.8	42.1	41.7	41.8	41.3	41.3	41.3	41.2
3	41.7	41.8	41.7	41.8	41.8	41.3	41.3	41.2	19	41.8	42.0	42.0	41.8	41.3	41.3	41.3	41.2
4	41.8	41.8	41.7	41.9	41.8	41.3	41.3	41.2	20	41.8	41.9	41.9	41.8	41.3	41.3	41.3	41.2
5	41.8	41.8	42.1	42.0	41.7	41.3	41.3	41.3	21	41.8	41.8	41.9	41.6	41.3	41.3	41.3	41.2
6	41.8	41.8	42.2	42.0	41.7	41.3	41.3	41.3	22	41.8	41.9	42.1	41.6	41.3	41.3	41.3	41.2
7	41.8	41.8	42.3	41.8	41.6	41.3	41.3	41.3	23	41.7	42.0	41.8	41.6	41.3	41.3	41.3	41.3
8	41.8	41.8	42.2	41.7	41.7	41.2	41.3	41.3	24	41.8	42.1	41.7	41.6	41.3	41.4	41.3	41.2
9	41.6	41.8	42.2	42.2	41.7	41.2	41.3	41.3	25	41.8	41.9	41.6	41.8	41.3	41.4	41.3	41.2
10	41.7	41.9	42.1	42.7	41.7	41.3	41.3	41.3	26	41.8	41.6	41.7	41.8	41.3	41.4	41.3	41.2
11	41.8	41.8	41.9	42.7	41.5	41.3	41.3	41.3	27	41.7	41.6	41.7	41.8	41.3	41.4	41.3	41.2
12	41.8	41.8	42.2	42.1	41.4	41.4	41.3	41.3	28	41.7	41.6	41.7	41.7	41.4	41.5	41.3	41.2
13	41.8	42.0	42.0	41.9	41.3	41.4	41.3	41.3	29	41.8	41.8	41.7	41.6	41.4	41.4	41.3	41.2
14	41.8	41.8	42.0	41.8	41.3	41.3	41.3	41.3	30	41.7	41.9	41.7		41.3	41.4	41.3	41.3
15	41.8	42.1	42.3	41.7	41.3	41.3	41.3	41.2	31		42.0	41.6		41.3		41.3	
16	41.7	42.1	42.2	41.8	41.3	41.3	41.3	41.2									

Crest Stages:			
Date	1-12-60	1-15-61	2-11-60
Time	1:30 PM	1:30 PM	3:00 AM
Stage	42.5	42.6	43.1

NR - No Record

TABLE 34

DAILY MEAN GAGE HEIGHT
TUOLUMNE RIVER AT TUOLUMNE CITY*

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr	May	June
1	24.6	24.4	25.1	24.2	24.2	23.3	23.3	23.0	17	24.6	25.4	25.4	24.4	23.2	23.2	23.2	23.0
2	24.2	24.7	24.8	24.6	24.4	23.3	23.2	23.0	18	24.8	25.5	24.7	24.5	23.2	23.2	23.2	22.9
3	24.2	24.8	24.4	25.0	24.4	23.2	23.2	23.0	19	24.7	25.5	24.9	24.5	23.2	23.2	23.2	23.0
4	24.6	24.8	24.6	24.6	24.5	23.2	23.2	23.0	20	24.7	25.2	25.2	24.7	23.2	23.2	23.2	23.0
5	24.8	24.7	25.0	25.0	24.4	23.2	23.1	23.1	21	24.7	24.8	24.9	24.3	23.2	23.2	23.1	23.0
6	24.7	24.7	25.7	25.0	24.3	23.1	23.1	23.1	22	24.7	24.8	25.2	24.0	23.2	23.2	23.2	23.0
7	24.7	24.6	26.0	24.8	24.1	23.2	23.1	23.1	23	24.7	24.7	25.2	24.0	23.2	23.2	23.2	22.9
8	24.7	24.6	25.8	24.5	23.9	23.0	23.1	23.1	24	24.4	25.5	24.5	24.0	23.2	23.3	23.2	23.0
9	24.5	24.8	25.9	24.8	24.2	23.1	23.1	23.1	25	24.7	25.3	24.3	24.2	23.2	23.4	23.2	23.0
10	24.2	24.8	25.7	26.6	24.1	23.2	23.1	23.0	26	24.7	24.5	24.3	24.4	23.2	23.4	23.2	23.1
11	24.6	24.8	25.1	27.5	24.0	23.2	23.1	23.0	27	24.6	24.2	24.4	24.6	23.3	23.5	23.1	23.1
12	24.7	24.8	25.3	25.9	23.6	23.2	23.1	23.1	28	24.2	24.3	24.4	24.4	23.3	23.6	23.1	23.0
13	24.7	25.0	25.6	25.1	23.4	23.4	23.1	23.1	29	24.6	24.4	24.4	24.2	23.4	23.6	23.1	23.0
14	24.8	25.0	25.4	24.7	23.3	23.3	23.1	23.0	30	24.5	24.9	24.4		23.3	23.6	23.1	23.0
15	24.7	25.1	25.8	24.4	23.3	23.3	23.2	23.0	31		25.1	24.3		23.3		23.1	
16	24.6	25.6	25.9	24.4	23.2	23.3	23.2	23.0									

Crest Stages:							
	Date	11-13-59	12-15-59	12-24-59	1- 7-60	1-15-60	2-11-60
	Time	2:00 PM	11:00 PM	11:00 PM	8:00 PM	9:00 PM	11:00 AM
	Stage	24.9	25.5	25.9	26.4	26.4	27.8

E-Estimated NR-No Record
* - Datum change of January 1, 1960, was made retroactive to November 1, 1959, for continuity of record in this report.

TABLE 341

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

In feet

Date	19[illegible]		1960						Date	1959		1960					
	Nov.	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr.	May	June
1	15.0	14.9	15.4	15.2	15.3	14.0	14.7	13.5	17	15.0	15.6	16.2	16.3	13.4	13.6	13.9	12.9
2	14.9	15.0	15.3	15.4	15.4	13.8	14.7	13.5	18	15.1	15.6	15.7	16.1	13.4	13.7	13.9	12.8
3	14.7	15.1	15.0	15.8	15.3	13.7	14.4	13.3	19	15.2	15.7	15.6	16.0	13.2	13.5	13.9	12.8
4	14.8	15.1	15.1	15.6	15.2	13.7	14.1	13.3	20	15.2	15.5	15.9	16.0	13.2	13.4	14.0	13.0
5	15.0	15.1	15.1	15.8	15.1	13.6	13.9	13.2	21	15.2	15.3	15.7	15.8	13.3	13.3	13.9	13.0
6	15.0	15.1	15.6	16.0	15.0	13.5	13.8	13.2	22	15.2	15.1	15.7	15.6	13.1	13.3	13.9	13.1
7	15.0	15.1	15.8	16.0	14.9	13.5	13.7	13.1	23	15.1	15.5	15.9	15.5	13.2	13.4	14.0	13.0
8	15.0	15.0	15.9	15.8	14.7	13.5	13.6	13.0	24	14.9	15.6	15.5	15.4	13.1	13.7	14.0	13.2
9	15.0	15.2	15.9	15.8	14.7	13.4	13.7	13.0	25	15.0	15.6	15.4	15.4	13.1	13.9	14.0	12.9
10	14.8	15.3	16.0	16.8	14.5	13.5	13.7	13.1	26	15.1	15.2	15.3	15.5	13.2	14.0	13.9	12.9
11	15.0	15.2	15.9	17.7	14.4	13.7E	13.5	13.1	27	15.1	14.9	15.4	15.6	13.4	14.3	13.9	13.1
12	15.1	15.2	15.8	17.5	14.1	13.8E	13.5	13.0	28	14.9	14.9	15.4	15.5	13.5	14.9	13.7	13.0
13	15.1	15.2	16.2	17.3	13.9	13.8E	13.5	13.0	29	14.8	14.9	15.4	15.4	13.8	14.9	13.6	13.0
14	15.1	15.4	16.0	17.2	13.7	13.6	13.6	13.0	30	15.0	15.2	15.3		13.8	14.8	13.7	13.1
15	15.1	15.2	16.1	16.9	13.6	13.4	13.7	13.0	31		15.3	15.3		14.0		13.6	
16	15.1	15.6	16.3	16.5	13.4	13.4	13.8	12.9									

Crest Stages:									
	Date	1-10-60	1-13-60	1-16-60	1-17-60	1-23-60	2-11-60	2-17-60	2-19-60
	Time	5:00 AM	5:00 AM	4:00 AM	5:00 AM	6:00 AM	6:00 PM	5:00 AM	5:00 AM
	Stage	16.1	16.3	16.4	16.3	16.1	18.0	16.4	16.1

E-Estimated NR-No Record

TABLE 342

DAILY MEAN GAGE HEIGHT
STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar	Apr	May	June		Nov	Dec.	Jan.	Feb	Mar	Apr	May	June
1	1.5	1.6	1.5	1.1	1.3	1.3	1.5	1.4	17	1.5	1.6	1.6	1.2	1.3	1.4	1.7	1.5
2	1.5	1.6	1.5	1.1	1.3	1.2	1.3	1.4	18	1.5	1.6	1.6	1.2	1.3	1.4	1.6	1.4
3	1.5	1.6	1.5	1.5	1.2	1.2	1.2	1.3	19	1.5	1.6	1.6	1.2	1.2	1.5	1.6	1.4
4	1.6	1.6	1.4	1.3	1.2	1.2	1.2	1.4	20	1.5	1.6	1.6	1.1	1.2	1.4	1.5	1.4
5	1.6	1.6	1.4	1.3	1.3	1.2	1.2	1.4	21	1.5	1.6	1.5	1.2	1.3	1.5	1.5	1.5
6	1.5	1.6	1.4	1.6	1.3	1.2	1.3	1.3	22	1.6	1.6	1.4	1.1	1.3	1.5	1.5	1.4
7	1.5	1.6	1.4	1.5	1.3	1.3	1.4	1.4	23	1.6	1.6	1.3	1.1	1.4	1.5	1.5	1.4
8	1.5	1.6E	1.4	2.1	1.3	1.5	1.4	1.4	24	1.6	1.6	1.3	1.1	1.4	1.7	1.6	1.4
9	1.5	1.6E	1.4	2.4	1.3	1.5	1.5	1.6	25	1.6	1.6	1.3	1.1	1.4	1.5	1.6	1.4
10	1.5	1.6E	1.6	2.6	1.3	1.5	1.4	1.6	26	1.6	1.6	1.5	1.2	1.4	1.4	1.5	1.4
11	1.5	1.6E	1.5	1.8	1.3	1.5	1.5	1.6	27	1.6	1.5	1.4	1.3	1.4	1.5	1.4	1.4
12	1.5	1.6E	1.7	1.6	1.3	1.6	1.5	1.6	28	1.6	1.5	1.3	1.3	1.4	1.4	1.4	1.5
13	1.5	1.6E	1.6	1.5	1.4	1.5	1.5	1.6	29	1.7	1.5	1.2	1.3	1.3	1.4	1.4	1.4
14	1.5	1.6E	1.6	1.4	1.3	1.5	2.4	1.6	30	1.6	1.5	1.1		1.3	1.4	1.4	1.4
15	1.5	1.6	1.6	1.3	1.3	1.5	2.0	1.6	31		1.5	1.1		1.3		1.4	
16	1.5	1.6	1.6	1.3	1.3	1.4	2.0	1.6									

Crest Stages		
	Date	2- 8-60
	Time	6:30 PM
	Stage	4.2

E-Estimated NR-No Record

TABLE 343

DAILY MEAN GAGE HEIGHT
STANISLAUS RIVER AT RIVERBANK

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan	Feb	Mar.	Apr.	May	June		Nov	Dec	Jan.	Feb	Mar	Apr.	May	June
1	73.1	73.2	73.1	72.9	72.8	72.9	72.9	72.9	17	73.2	73.2	73.2	72.9	72.8	73.0	73.7	73.0
2	73.2	73.2	73.1	73.0	72.8	72.8	73.0	73.0	18	73.2	73.2	73.2	72.9	72.8	73.0	73.3	73.0
3	73.2	73.2	73.1	73.0	72.8	72.9	72.9	72.9	19	73.1	73.2	73.2	72.9	72.8	73.0	73.1	73.0
4	73.2	73.2	73.1	73.1	72.8	72.8	72.8	72.9	20	73.1	73.2	73.1	72.9	72.8	73.0	73.1	72.9
5	73.2	73.2	73.0	73.1	72.8	72.8	72.9	72.9	21	73.2	73.2	73.2	72.9	72.9	72.9	73.1	73.0
6	73.2	73.2	73.0	73.1	72.8	72.9	72.8	72.9	22	73.2	73.2	73.1	72.9	72.8	73.0	73.1	73.0
7	73.2	73.2	73.0	73.2	72.8	72.9	72.9	72.9	23	73.2	73.2	73.0	72.9	72.8	73.0	73.1	73.0
8	73.2	73.2	73.0	73.2	72.8	72.9	72.9	73.0	24	73.2	73.2	73.0	72.8	72.9	73.1	73.1	72.9
9	73.2	73.2	73.1	74.7	72.8	72.9	73.0	73.1	25	73.2	73.2	72.9	72.8	72.9	73.3	73.2	73.0
10	73.1	73.3	73.1	74.9	72.8	72.9	73.0	73.1	26	73.2	73.2	72.9	72.8	73.0	73.0	73.0	73.0
11	73.1	73.2	73.2	74.3	72.8	72.9	73.0	73.1	27	73.2	73.1	73.0	72.8	73.0	73.2	73.0	73.0
12	73.2	73.2	73.2	73.9	72.8	73.0	73.0	73.1	28	73.2	73.1	73.0	72.8	73.0	73.3	73.0	72.9
13	73.1	73.2	73.3	73.8	72.8	73.0	73.0	73.1	29	73.2	73.1	72.9	72.8	73.0	73.0	73.0	73.0
14	73.1	73.1	73.2	73.0	72.8	73.0	73.3	73.0	30	73.3	73.1	72.9		72.9	72.9	73.0	72.9
15	73.1	73.2	73.2	73.0	72.8	73.0	74.5	73.0	31		73.1	72.9		72.9		73.0	
16	73.1	73.2	73.2	73.0	72.8	72.9	73.9	73.1									

Crest Stages			
	Date	2- 9-60	4-15-60
	Time	3:45 AM	3:30 AM
	Stage	76.0	75.3

E-Estimated NR-No Record

TABLE 344

DAILY MEAN GAGE HEIGHT
STANISLAUS RIVER AT RIPON

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	37.5	37.6	37.5	37.3	37.2	37.2	37.4	37.2	17	37.6	37.6	37.5	37.4	37.1	37.3	37.9	37.2
2	37.5	37.6	37.5	37.4	37.2	37.2	37.4	37.1	18	37.6	37.5	37.5	37.4	37.1	37.3	37.7	37.1
3	37.5	37.6	37.4	37.5	37.2	37.3	37.3	37.1	19	37.5	37.5	37.5	37.4	37.1	37.2	37.5	37.0
4	37.5	37.6	37.4	37.6	37.2	37.2	37.3	37.1	20	37.5	37.5	37.5	37.4	37.2	37.1	37.4	37.2
5	37.5	37.6	37.4	37.5	37.2	37.1	37.4	37.0	21	37.5	37.5	37.5	37.3	37.4	37.2	37.4	37.2
6	37.6	37.6	37.4	37.8	37.2	37.1	37.4	37.1	22	37.5	37.5	37.5	37.3	37.4	37.2	37.5	37.1
7	37.6	37.6	37.4	37.6	37.2	37.1	37.3	37.1	23	37.5	37.5	37.4	37.3	37.2	37.2	37.5	37.0
8	37.6	37.6	37.4	37.6	37.2	37.1	37.3	37.1	24	37.5	37.6	37.4	37.3	37.3	37.4	37.3	37.1
9	37.5	37.6	37.4	38.1	37.2	37.1	37.2	37.3	25	37.6	37.6	37.4	37.3	37.3	37.4	37.4	37.1
10	37.5	37.6	37.4	39.2	37.2	37.3	37.2	37.4	26	37.6	37.5	37.3	37.3	37.4	37.4	37.3	37.1
11	37.5	37.6	37.5	39.5	37.2	37.2	37.3	37.5	27	37.6	37.5	37.3	37.3	37.4	37.7	37.2	37.2
12	37.5	37.6	37.5	38.6	37.2	37.3	37.2	37.3	28	37.6	37.5	37.4	37.3	37.4	37.7	37.2	37.0
13	37.5	37.6	37.5	38.0	37.2	37.3	37.2	37.2	29	37.6	37.5	37.4	37.3	37.2	37.6	37.3	37.1
14	37.5	37.6	37.6	37.7	37.2	37.3	37.3	37.1	30	37.6	37.5	37.3		37.2	37.4	37.2	37.3
15	37.5	37.6	37.5	37.6	37.2	37.4	37.7	37.2	31		37.5	37.3		37.2		37.2	
16	37.5	37.6	37.5	37.5	37.1	37.4	38.1	37.2									

Crest Stages:					
	Date	2- 6-60	2-11-60	4-27-60	5-16-60
	Time	5:00 PM	9:00 AM	8:00 PM	4:00 AM
	Stage	37.9	39.8	38.0	38.3

NR — No Record

TABLE 345

DAILY MEAN GAGE HEIGHT
STANISLAUS RIVER AT KOETITZ RANCH

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr.	May	June
1	26.8	26.8	26.6	26.4	26.3	26.4	26.7	26.4	17	26.8	26.8	26.6	26.6	26.1	26.6	27.1	26.3
2	26.8	26.8	26.6	26.5	26.3	26.4	26.6	26.2	18	26.8	26.7	26.6	26.6	26.0	26.5	27.0	26.4
3	26.7	26.8	26.6	26.5	26.3	26.5	26.9	26.2	19	26.7	26.7	26.6	26.5	26.0	26.3	26.9	26.3
4	26.8	26.8	26.6	26.7	26.3	26.4	26.6	26.3	20	26.8	26.7	26.6	26.5	26.0	26.2	26.6	26.4
5	26.8	26.8	26.6	26.6	26.3	26.3	26.5	26.2	21	26.8	26.7	26.6	26.4	26.4	26.3	26.6	26.5
6	26.8	26.8	26.6	26.8	26.3	26.2	26.5	26.1	22	26.8	26.7	26.6	26.4	26.4	26.3	26.6	26.3
7	26.8	26.8	26.6	26.8	26.3	26.2	26.5	26.2	23	26.7	26.7	26.6	26.4	26.2	26.4	26.7	26.2
8	26.8	26.8	26.6	26.7	26.3	26.2	26.4	26.2	24	26.7	26.7	26.6	26.4	26.2	26.6	26.7	26.3
9	26.8	26.8	26.6	26.9	26.2	26.4	26.4	26.4	25	26.7	26.8	26.5	26.4	26.2	26.7	26.7	26.2
10	26.7	26.8	26.6	28.2E	26.2	26.5	26.4	26.4	26	26.8	26.7	26.5	26.4	26.4	26.7	26.6	26.4
11	26.7	26.8	26.6	28.7E	26.2	26.4	26.4	26.7	27	26.8	26.7	26.4	26.3	26.5	26.9	26.4	26.5
12	26.7	26.8	26.7	28.0E	26.1	26.4	26.3	26.6	28	26.8	26.7	26.5	26.4	26.4	27.3	26.4	26.3
13	26.7	26.8	26.7	27.4E	26.2	26.5	26.3	26.5	29	26.8	26.6	26.5	26.4	26.3	27.0	26.5	26.2
14	26.8	26.8	26.7	27.0E	26.2	26.5	26.4	26.3	30	26.8	26.6	26.4		26.4	26.7	26.5	26.4
15	26.8	26.8	26.7	26.8E	26.2	26.5	26.7	26.2	31		26.6	26.4		26.4		26.4	
16	26.8	26.8	26.6	26.7	26.1	26.6	27.4	26.4									

Crest Stages:								
	Date	2-10-60	2-11-60	4-28-60	4-28-60	4-29-60	5-16-60	5-17-60	5-18-60
	Time	11:30 AM(E)	1:00 PM(E)	5:15 AM	9:00 PM	10:00 AM	8:15 AM	9:00 AM	10:00 AM
	Stage	28.3E	28.9E	27.5	27.2	27.1	27.5	27.2	27.0

NR — No Record
E - Estimated

TABLE 346

DAILY MEAN GAGE HEIGHT
SAN JOAQUIN RIVER NEAR VERNALIS

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	11.8	11.7	12.1	11.9	11.9	10.7	11.5	10.2	17	11.8	12.4	12.8	12.8	10.2	10.4	10.8	9.6
2	11.8	11.8	12.0	12.0	12.0	10.5	11.4	10.1	18	12.0	12.3	12.4	12.7	10.1	10.4	10.6	9.6
3	11.6	11.9	11.8	12.4	11.9	10.4	11.3	10.0	19	12.0	12.4	12.2	12.6	10.0	10.2	10.6	9.5
4	11.6	11.9	11.8	12.3	11.8	10.4	11.0	9.9	20	12.0	12.3	12.6	12.6	9.9	10.0	10.7	9.7
5	11.7	11.9	11.9	12.4	11.7	10.3	10.7	9.9	21	12.0	12.1	12.4	12.4	10.0	9.9	10.6	9.7
6	11.8	11.9	12.2	12.6	11.6	10.1	10.6	9.9	22	11.9	11.9	12.4	12.2	9.8	10.0	10.6	9.7
7	11.8	11.9	12.5	12.6	11.5	10.1	10.5	9.8	23	11.9	12.2	12.6	12.1	9.9	10.1	10.8	9.6
8	11.9	11.8	12.6	12.4	11.3	10.2	10.4	9.7	24	11.8	12.3	12.2	12.0	9.8	10.4	10.8	9.7
9	11.8	11.9	12.6	12.4	11.3	10.2	10.5	9.7	25	11.8	12.3	12.1	12.0	9.8	10.8	10.8	9.6
10	11.7	12.0	12.6	13.3	11.2	10.3	10.4	9.8	26	11.9	12.0	12.0	12.1	9.8	10.9	10.7	9.5
11	11.8	12.0	12.5	14.3	11.0	10.5	10.2	9.8	27	11.9	11.7	12.1	12.1	10.1	11.1	10.6	9.8
12	11.8	12.0	12.4	14.3	10.8	10.6	10.1	9.8	28	11.7	11.7	12.1	12.1	10.2	11.7	10.4	9.8
13	11.9	12.0	12.8	14.0	10.6	10.6	10.1	9.8	29	11.8	11.7	12.1	12.0	10.5	11.8	10.3	9.7
14	11.9	12.2	12.7	13.8	10.5	10.4	10.2	9.7	30	11.8	12.0	12.0		10.5	11.6	10.4	9.8
15	11.9	12.0	12.7	13.5	10.4	10.1	10.3	9.6	31		12.0	12.0		10.6		10.4	
16	11.9	12.3	12.9	13.1	10.3	10.2	10.7	9.6									

Crest Stages:					
	Date	1- 1-60	1-16-60	2-11-60	4- 1-60	4-29-60
	Time	9:00 AM	7:30 AM	10:00 PM	7:00 AM	4:00 AM
	Stage	12.2	13.0	14.7	10.8	11.8

NR — No Record

TABLE 347

DAILY MEAN GAGE HEIGHT
CALAVERAS RIVER AT JENNY LIND

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan	Feb.	Mar.	Apr.	May	June		Nov	Dec.	Jan	Feb	Mar	Apr.	May	June
1	NF	1.3	1.6	2.1	0.7	1.0	1.3	1.0	17	NF	1.5	1.9	1.5	1.3	0.7	1.2	2.8
2	NF	1.3	1.6	3.2	0.7	1.0	1.3	1.5	18	NF	1.5	1.9	1.2	1.3	0.7	1.1	2.8
3	NF	1.3	1.6	3.2	0.7	1.1	1.3	3.1	19	NF	1.5	1.9	1.2	1.2	0.7	1.1	2.8
4	NF	1.3	1.6	2.6	0.7	1.1	1.3	2.8	20	NF	1.5	1.8	1.1	1.2	0.7	1.1	2.8
5	NF	1.4	1.6	2.5	0.7	1.0	1.3	3.2	21	NF	1.5	1.8	1.1	1.1	0.7	1.1	2.8
6	NF	1.4	1.6	2.7	0.7	0.9	1.3	2.9	22	NF	1.5	1.8	1.1	0.9	0.7	1.1	2.8
7	NF	1.4	1.6	2.7	0.7	0.8	1.3	3.0	23	NF	1.5	1.8	1.0	1.0	0.8	1.1	2.8
8	NF	1.4	1.6	4.3	0.7	0.8	1.3	3.1	24	0.8	1.6	1.9	0.8	1.1	0.8	1.1	2.9
9	NF	1.4	1.6	7.1	0.7	0.8	1.2	2.9	25	1.2	1.6	1.9	0.8	1.1	0.8	1.1	2.9
10	NF	1.4	1.8	6.8	0.7	0.8	1.2	2.9	26	1.3	1.7	2.3	0.7	1.1	0.8	1.2	2.8
11	NF	1.4	[illegible]	5.8	0.7	0.8	1.2	3.0	27	1.3	1.8	2.6	0.7	1.1	1.1	1.1	2.8
12	NF	1.4	2.2	3.9	1.1	0.8	1.2	3.0	28	1.3	1.8	2.5	0.7	1.2	1.2	1.1	2.8
13	NF	1.4	2.3	3.2	2.4	0.7	1.2	3.0	29	1.3	1.7	2.3	0.7	1.2	1.2	1.1	2.8
14	NF	1.4	2.2	2.8	1.7	0.7	1.2	2.9	30	1.3	1.7	2.2		1.2	1.2	1.1	2.8
15	NF	1.4	2.1	2.6	1.5	0.7	1.2	2.7	31		1.6	2.1		1.2		1.0	
16	NF	1.4	2.0	2.4	1.4	0.7	1.2	2.8									

Crest Stages:				
	Date	2- 2-60	2- 9-60	3-12-60
	Time	3:10 PM	4:00 AM	11:15 PM
	Stage	3.8	7.2	4.1

NR — No Record

TABLE 348

DAILY MEAN GAGE HEIGHT
MOKELUMNE RIVER AT WOODBRIDGE

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr.	May	June
1	3.5	3.4	3.7	4.5	4.2	3.6	3.3	3.8	17	3.4	3.5	4.6	4.4	3.4	3.2	3.3	3.8
2	3.5	3.4	3.8	4.7	4.6	3.6	3.3	6.2	18	3.4	3.5	4.5	4.4	4.0	3.2	3.3	3.5
3	3.5	3.4	3.9	4.6	5.3	3.6	3.3	6.1	19	3.4	3.5	4.4	4.4	4.2	3.2	3.3	3.5
4	3.5	3.4	7.5	4.5	5.1	3.6	3.3	6.2	20	3.4	3.6	4.3	4.4	3.5	3.2	3.3	3.5
5	3.5	3.4	5.2	4.6	5.2	3.6	3.3	6.3	21	3.4	3.5	4.4	4.3	3.9	3.2	3.3	3.4
6	3.5	3.4	4.6	4.7	5.0	3.4	3.3	8.3	22	3.5	3.5	4.4	4.3	3.7	3.2	3.3	3.4
7	3.4	3.4	4.5	4.5	5.1	3.4	3.3	8.1	23	3.5	3.4	4.4	4.3	3.7	3.2	3.4	3.4
8	3.4	3.4	4.5	4.7	5.2	3.5	3.3	6.6	24	3.5	3.6	4.6	4.2	3.7	3.2	3.4	3.4
9	3.4	3.4	4.6	5.8	5.1	3.4	3.3	6.9	25	3.5	3.7	4.5	4.2	3.6	3.2	3.5	3.4
10	3.4	3.4	4.5	5.2	5.1	3.4	3.3	6.7	26	3.5	3.7	4.6	4.2	3.6	3.3	4.0	3.4
11	3.4	3.4	4.6	5.1	5.1	3.5	3.3	6.5	27	3.4	3.7	4.6	4.2	3.5	3.3	4.5	3.4
12	3.4	3.4	4.6	4.7	4.7	3.5	3.3	6.5	28	3.4	3.6	4.4	4.2	3.5	3.3	3.7	3.4
13	3.4	3.4	4.3	4.5	6.6	NR	3.3	6.2	29	3.4	3.6	4.3	4.2	3.5	3.3	3.5	3.4
14	3.4	3.5	3.9	4.5	6.2	NR	3.3	6.1	30	3.4	3.6	4.3		3.5	3.3	3.7	3.4
15	3.4	3.5	4.3	4.5	4.6	NR	3.3	6.0	31		3.6	4.3		3.5		3.7	
16	3.4	3.5	4.8	4.4	3.2	3.2	3.3	5.6									

Crest Stages:					
	Date	1- 4-60	2- 9-60	3-13-60	6- 2-60	6- 6-60
	Time	11:30 AM	2:00 PM	3:30 PM	2:00 AM	2:45 PM
	Stage	12.4	6.1	7.6	7.8	9.7

NR – No Record

TABLE 349

DAILY MEAN GAGE HEIGHT
COSUMNES RIVER AT MICHIGAN BAR

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar	Apr	May	June
1	2.0	2.2	2.3	3.0	3.1	4.3	3.7	2.9	17	2.1	2.2	2.5	3.5	4.1	3.6	3.4	2.4
2	2.1	2.2	2.3	3.5	3.1	4.3	3.7	2.9	18	2.1	2.2	2.4	3.5	4.1	3.6	3.4	2.4
3	2.1	2.2	2.2	3.4	3.1	4.2	3.8	2.8	19	2.1	2.2	2.4	3.6	4.0	3.6	3.3	2.4
4	2.2	2.2	2.2	3.2	3.1	4.2	3.8	2.8	20	2.1	2.3	2.4	3.4	4.0	3.6	3.3	2.4
5	2.2	2.2	2.4	3.4	3.1	4.2	3.8	2.8	21	2.1	2.2	2.5	3.4	4.0	3.5	3.2	2.4
6	2.2	2.2	2.3	3.3	3.2	4.2	3.7	2.7	22	2.1	2.2	2.5	3.3	4.0	3.5	3.2	2.3
7	2.2	2.2	2.4	3.5	3.5	4.2	3.7	2.7	23	2.1	2.2	2.6	3.3	4.0	3.6	3.2	2.3
8	2.2	2.2	2.4	7.0	4.8	4.1	3.7	2.7	24	2.1	2.3	2.7	3.2	4.0	3.6	3.3	2.3
9	2.1	2.2	2.6	6.2	4.9	4.1	3.7	2.7	25	2.1	2.5	3.1	3.2	4.0	3.6	3.3	2.3
10	2.1	2.2	3.0	5.4	4.2	4.0	3.7	2.7	26	2.2	2.7	3.9	3.2	4.0	3.5	3.2	2.3
11	2.1	2.2	3.1	4.7	4.0	4.0	3.7	2.6	27	2.2	2.6	3.7	3.2	4.2	3.9	3.2	2.2
12	2.1	2.2	3.1	4.2	4.1	3.9	3.6	2.6	28	2.2	2.4	3.3	3.2	4.7	4.1	3.1	2.2
13	2.1	2.2	2.9	4.0	5.3	3.8	3.6	2.6	29	2.1	2.4	3.0	3.1	4.3	3.8	3.1	2.2
14	2.1	2.2	2.7	3.8	4.7	3.8	3.5	2.5	30	2.1	2.3	2.9		4.2	3.7	3.0	2.4
15	2.1	2.2	2.6	3.7	4.4	3.7	3.5	2.5	31		2.3	2.8		4.4		3.0	
16	2.1	2.2	2.6	3.6	4.2	3.7	3.4	2.5									

Crest Stages:					
	Date	1-26-60	2- 8-60	3- 8-60	3-13-60	4-27-60
	Time	8:00 AM	2:30 PM	8:30 AM	5:30 AM	11:00 PM
	Stage	4.1	8.2	5.0	5.9	4.2

NR – No Record

TABLE 350

DAILY MEAN GAGE HEIGHT
COSUMNES RIVER AT McCONNELL

In feet

Date	1959		1960						Date	1959		1960					
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June		Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1	NF	NF	29.6	30.4	31.0	33.0	31.8	30.3	17	NF	NF	30.1	31.8	32.7	31.6	31.2	NF
2	NF	NF	29.6	31.0	31.0	33.0	31.8	30.2	18	NF	NF	30.0	31.7	32.5	31.6	31.1	NF
3	NF	NF	29.6	31.6	31.0	32.9	31.8	30.1	19	NF	NF	29.9	31.8	32.4	31.5	31.0	NF
4	NF	NF	29.5	31.2	31.0	32.8	31.8	30.0	20	NF	NF	29.9	31.6	32.3	31.5	30.9	NF
5	NF	NF	29.4	31.3	31.0	32.7	31.9	30.0	21	NF	NF	30.0	31.5	32.3	31.4	30.8	NF
6	NF	NF	29.6	31.9	31.0	32.6	31.8	29.9	22	NF	NF	30.0	31.4	32.3	31.4	30.8	NF
7	NF	NF	29.7	31.4	31.2	32.6	31.8	29.8	23	NF	NF	30.0	31.3	32.3	31.5	30.7	NF
8	NF	NF	29.7	35.6	33.3	32.6	31.7	29.8	24	NF	NF	30.2	31.3	32.3	31.6	30.8	NF
9	NF	NF	29.9	40.3	33.6	32.5	31.7	29.8	25	NF	29.4	30.5	31.2	32.3	31.7	30.9	NF
10	NF	NF	30.2	37.3	32.9	32.4	31.6	29.7	26	NF	29.9	31.5	31.2	32.3	31.5	30.9	NF
11	NF	NF	30.8	35.4	32.5	32.3	31.6	29.8	27	NF	30.3	32.0	31.2	32.3	31.6	30.8	NF
12	NF	NF	30.7	33.6	32.3	32.3	31.6	29.8	28	NF	30.1	31.4	31.1	33.5	32.6	30.6	NF
13	NF	NF	30.7	32.8	35.0	32.1	31.6	29.7	29	NF	29.9	30.9	31.1	33.3	32.1	30.6	NF
14	NF	NF	30.4	32.4	34.4	31.9	31.4	29.5	30	NF	29.7	30.7		32.7	31.8	30.5	NF
15	NF	NF	30.2	32.1	33.6	31.8	31.4	NF	31		29.7	30.5		33.0		30.4	
16	NF	NF	30.1	31.9	33.0	31.7	31.3	NF									

Crest Stages:							
Date	1-26-60	2- 6-60	2- 9-60	3- 8-60	3-13-60	3-28-60	4-2[illegible]-60
Time	8:00 PM	5:00 AM	11:00 AM	6:30 PM	2:30 PM	8:30 PM	11:45 AM
Stage	32.2	32.3	40.[illegible]	34.5	36.6	34.1	32.7

NR — No Record
NF - No Flow

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 1960 water year.

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT.	1959 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	78	3.43 3.47	5/ 7/60 6/ 2/60	374E	4.32	5/11/58	10680	6940	APR 55-OCT 57& MAY 58-DATE	APR 55-OCT 57& 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	218	5.99	6/ 2/60	401E	6.50	5/23/58	17350	12580	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	62	3.95E	2/ 8/60	41E	2.79	5/11/58	2574	1150	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	63	3.28	6/ 2/60	78E	3.39	6/19/58	4261	2656	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		5.75	4/11/60 4/14/60		7.25	6/19/58				OCT 56-DATE	1956		5095.06	USCGS
Station located on east shore, 14 mi. NW of Susanville. Maximum gage height listed does not indicate maximum discharge. (s)																
GOLD RUN CREEK NEAR SUSANVILLE																
40 21 26	120 42 11	SE23 29N 11E	107E	2.92	2/ 8/60	483E	3.81	2/24/58	2740	2739	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	753E	3.31	2/ 8/60	1200E	3.98	2/24/58	6541	4785	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	161	3.53	3/28/60				5256	6297	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
8 - Irrigation season only
- Flood season only
(f) - Record of flow published

TABLE 351

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.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC-FT	1959 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		
TROUT CREEK NEAR TAHOE VALLEY																
38 55 12	119 58 17	SE 3 12N 18E	96	7.57	2/ 8/60	244	7.91	5/23/58	10310	12610	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. Flows listed are not considered to have the same degree of accuracy as other records published in this report. (f)																
UPPER TRUCKEE RIVER NEAR MEYERS																
38 50 35	120 01 25	SE31 12N 18E	362	6.66	5/11/60	1420E	8.70	5/23/58	22420	23360	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	1650E	8.99	2/ 8/60	1650E	8.99	2/ 8/60	24420	24190	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 352

GAGING STATION
ADDITIONS and DELETIONS

LAHONTAN AREA

NEW STATIONS
None

STATIONS DROPPED
None

TABLE 353

DAILY MEAN DISCHARGE
BIDWELL CREEK NEAR FORT BIDWELL

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.6	3.0	3.2	4.3 E	4.3	3.4	17	35	72	12	5.3	2.8
2	3.6	3.0	3.2	4.3 E	4.0	3.4	22	42	75	11	5.1	2.8
3	3.6	3.0	2.8	4.3 E	3.8	3.4	32	43	75	11	4.8	3.0
4	3.4	3.0	2.3	4.3 E	3.6	3.8	42	39	70	11	4.5	3.2
5	3.4	2.8	2.3 E	4.3 E	3.8	5.3	46	37	66	9.9	4.3	3.0
6	3.0	3.0 E	2.3 E	4.3 E	4.0	14	49	39	61	9.5	4.0	3.0
7	3.2	3.0 E	2.3 E	4.3 E	11	23	59	72	57	9.5	3.6	3.0
8	5.9	2.8 E	2.4 E	4.3 E	23	16	53	72	53	8.7	3.6	2.8
9	4.5	2.8 E	2.4 E	4.3 E	15	10	52	67	49	8.3	3.6	2.8
10	3.6	2.8	2.4 E	4.3 E	9.1	8.3 E	52	67	45	7.9	3.4	2.8
11	3.4	2.8	2.4 E	4.3 E	6.5 E	6.5	51	70	42	7.9	3.6	2.8
12	3.4	2.8	2.4 E	4.3 E	5.9	6.2	42	70	41	7.6	3.6	2.8
13	3.4	2.3	2.4 E	4.3 E	5.1	7 2	38	67	39	7.2	3.6	2.8
14	3.2	3.2 E	2.6 E	4.3 E	4.3 E	6.9	40	66	38	6.9	3.6	2.8
15	3.2	3.4 E	2.6 E	4.3 E	4.5	6.5	35	66	35	7.2	3.6	2.8
16	3.0	3.2	2.6 E	4.3 E	4.5 E	5.9	30	66	33	6.9	3.8	2.8
17	3.0	2.8 E	2.6 E	4.3 E	4.3 E	6.5	28	61	30	6.2	3.6	2.6
18	3.0	3.0 E	2.6 E	4.3 E	4.0 E	12	28	56	28	5.9	3.4	2.6
19	3.2	3.0	2.6 E	4.3 E	3.8 E	16	30	51	26	5.9	3.2	2.6
20	3.2	2.8	2.6 E	4.3 E	3.8 E	20	34	53	24	5.9	3.0	2.8
21	3.6	3.2	2.6 E	4.3 E	3.8 E	26	39	52	22	5.6	3.0	2.8
22	4.3	3.2	2.6 E	4.3 E	3.8 E	30	36	50	20	5.3	4.3	2.8
23	3.6	3.4	2.6 E	4.3 E	3.8	32	33	44	18	5.6	4.0	2.8
24	3.2	3.0	4.3	4.3 E	4.0	35	29	40	17	5.3	3.8	3.0
25	3.2	3.0	4.5 E	4.0 E	4.5	37	26	41	16	5.3	3.8	3.0
26	3.0	2.1	4.3 E	4.0 E	3.8	36	23	47	16	5.3	3.6	2.8
27	3.0	2.3 E	4.3 E	4.0	3.6	29	22	50	15	5.1	3.6	2.8
28	3.0	3.2	4.3 E	4.0	3.6	25	22	53	14	4.8	3.4	3.0
29	2.8	3.6	4.3 E	4.0	3.4	19	22	57	14	6.8	3.2	2.8
30	2.8	3.4	4.3 E	4.5		16	26	63	13	7.6	3.0	2.8
31	3.0		4.3 E	3.8		14		69		6.2	2.8	
Mean	3.4	3.0	3.0	4.2	5.6	15.6	35.3	55.0	37.5	7.4	3.7	2.8
Ac-Ft.	209	176	185	261	323	959	2099	3382	2229	455	229	169

E — Estimated NR — No Record

Total Discharge in Acre-Feet 10680

TABLE 354

DAILY MEAN DISCHARGE
CEDAR CREEK AT CEDARVILLE

In second-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.3	0.1	0.3	0.9	1.2	15	8.8	7.0	1.4	0.2E	0
2	0.3	0.3	0.2	0.3	0.9	1.0	20	11	7.0	1.4	0.2E	0
3	0.2	0.3	0.2	0.3	0.8	1.2	21	10	6.4	1.2	0.2E	0.2
4	0.2	0.3	0.1	0.3	0.8	1.4	24	12	6.4	1.2	0.2E	0.1
5	0.1	0.2	0.1	0.3	0.8	3.1	24	13	5.9	1.2	0.1E	0.1
6	0.1	0.2	0.2	0.3	0.9	7.0	25	13	7.0	1.0	0.1E	0.1
7	0.2	0.2	0.2	0.4	2.2	12 E	24	13	9.5	1.0	0.1E	0.1
8	0.3	0.3	0.2	0.4	21 E	4.5	24	14	8.8	1.0	0.1E	0.1
9	0.3	0.3	0.2	0.4	4.9	4.1	21	13	8.2	1.0	0.1	0.1
10	0.3	0.3	0.2	0.4	3.4	4.5	20	13	7.0	0.9	0.1	0.1
11	0.3	0.3	0.2	0.5	2.8	4.5	18	13	5.4	0.8	0.1	0.1
12	0.3	0.3	0.2	0.5	2.5	4.5	17	13	4.5	0.7	0.1	0.1
13	0.3	0.2	0.2E	0.5	2.5	5.4	15	13	3.7	0.7	0.1	0.1
14	0.3	0.2	0.2E	0.5	2.2	5.4	17	12	3.4	0.7	0.1	0.1
15	0.2	0.2	0.2E	0.5	2.0	4.9	15	12	3.1	0.7	0.1	0
16	0.2	0.3	0.2E	0.5	1.7	4.5	14	11	2.8	0.7	0.1	0
17	0.2	0.3	0.2E	0.5	1.7	5.9	13	10	2.5	0.7	0.1	0.1
18	0.2	0.2	0.2E	0.5	1.7	7.0	13	9.5	3.5	0.7	0.1	0.1
19	0.2	0.2	0.2E	0.5	1.5	8.8	14	9.5	2.2	0.7	0	0
20	0.3	0.2	0.2E	0.5	1.5	8.8	13	10	2.0	0.7	0	0.1
21	0.3	0.2	0.2E	0.6	1.4	9.5	13	10	1.7	0.7	0	0.1
22	0.3	0.2	0.3E	0.7	1.4	9.5	12	9.5	1.7	0.6	0.2	0.1
23	0.3	0.2	0.4	0.7	1.4	10	10	8.8	1.7	0.6	0.2	0.1
24	0.3	0.2	0.5	0.7	1.4	13	9.5	8.8	1.7	0.5	0.2	0.1
25	0.3	0.2	0.3	0.6	1.4	15	8.8	8.8	1.7	0.4	0.1	0.1
26	0.3	0.1	0.3	0.6	1.4	15	8.8	9.5	1.7	0.5	0.1	0.1
27	0.3	0.1	0.3	0.6	1.2	17	8.2	9.5	1.5	0.6	0.1	0.1
28	0.3	0.2	0.3	0.7	1.4	15	7.5	8.8	1.5	0.7	0.1	0.1
29	0.3	0.2	0.3	0.8	1.4	14	7.5	8.2	1.5	0.7	0.1	0.1
30	0.3	0.2	0.3	0.9		13	7.5	8.2	1.5	4.9E	0.1	0.1
31	0.3		0.3	0.8		13		7.0		0.3E	0.1	
Mean	0.3	0.2	0.2	0.5	2.4	7.9	15.3	10.7	4.1	0.9	0.1	0.1
Ac.-Ft.	16	14	14	32	137	483	912	656	241	57	7	5

E - Estimated NR - No Record

Total Discharge in Acre-Feet 2574

TABLE 355

DAILY MEAN DISCHARGE
EAGLE CREEK AT EAGLEVILLE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.2	1.0 E	1.0 E	0.9 E	1.5 E	4.0	6.7	35	11	3.3	1.5
2	1.0	1.2	1.0 E	1.0 E	0.9 E	1.5 E	4.0	7.7	45	9.8	3.1	1.6
3	1.0	1.3	1.0 E	1.0 E	0.9 E	1.4 E	4.8	7.2	47	8.9	3.0	1.7
4	0.9	1.3	1.0 E	1.0 E	0.9 E	1.5 E	6.2	6.6	44	8.2	2.8	1.6
5	0.9	1.2 E	1.0 E	1.0 E	0.9 E	1.4	7.9	6.4	39	7.9	2.7	1.5
6	0.9	1.2 E	1.0 E	1.0 E	1.3 E	1.5	9.2	7.7	39	7.5	2.7	1.5
7	1.0	1.1 E	1.0 E	1.0 E	3.8	4.5	11	20	42	7.2	2.6	1.5
8	1.8	1.0 E	1.0 E	1.0 E	8.1	2.6	10	17	36	7.0	2.5	1.5
9	1.8	1.0 E	1.0 E	1.0 E	3.1	2.1	9.8	17	32	6.6	2.5	1.4
10	1.4	0.9 E	1.0 E	1.0 E	2.6	2.1	9.2	21	31	6.4	2.2	1.4
11	1.2	0.9 E	1.0 E	1.0 E	2.2 E	1.8	8.4	23	34	6.0	1.8	1.5
12	1.2	0.9 E	1.0 E	1.0 E	2.0	2.0	7.0	22	38	5.6	1.8	1.4
13	1.2	0.9 E	1.0 E	1.0 E	1.8 E	2.4	7.0	19	40	5.4	1.8	1.4
14	1.2	0.9 E	1.0 E	1.0 E	1.8 E	2.4 E	6.6	19	42	5.2	1.8	1.4
15	1.1	0.9 E	1.0 E	1.0 E	1.8	2.3 E	5.8	21	44	4.8	1.8	1.4
16	1.1	0.9 E	1.0 E	0.9 E	1.8 E	2.2 E	5.2	22	40	4.4	1.8	1.4
17	1.1	0.9 E	1.0 E	0.9 E	1.8 E	2.4	5.2	19	36	4.4	1.8	1.4
18	1.1	0.9 E	1.0 E	0.9 E	1.7 E	3.0	5.2	16	31	4.0	1.7	1.4
19	1.2	0.9 E	1.0 E	0.9 E	1.7 E	3.5	5.6	15	27	3.9	1.6	1.3
20	1.2	1.0 E	1.0 E	0.9 E	1.7 E	4.0	6.4	18	24	3.8	1.6	1.4
21	1.4	1.0 E	1.0 E	0.9 E	1.7 E	4.8	6.8	18	20	3.6	1.5	1.4
22	1.6	1.0 E	1.0 E	0.9 E	1.7 E	5.4	6.4	15	18	3.5	1.8	1.4
23	1.2	1.0 E	1.0 E	0.9 E	1.6 E	6.0	5.8	13	17	3.6	1.7	1.3
24	1.1	1.0 E	1.0 E	0.9 E	1.6 E	6.6	5.6	12	17	3.3	1.7	1.3
25	1.1	1.0 E	1.0 E	0.9 E	1.7 E	7.2	5.0	12	16	3.5	1.7	1.3
26	1.1	1.0 E	1.0 E	0.9 E	1.6 E	7.2	4.8	12	15	3.3	1.6	1.2
27	1.1	1.0 E	1.0 E	0.9 E	1.6 E	6.4	4.7	14	15	3.3	1.6	1.3
28	1.1	1.0 E	1.0 E	0.9 E	1.6 E	5.2	4.5	15	13	3.5	1.6	1.3
29	1.1	1.0 E	1.0 E	0.9 E	1.6 E	4.5	4.4	18	13	3.5	1.5	1.3
30	1.1 E	1.0 E	1.0 E	0.9 E		4.2	4.7	23	12	5.0	1.4	1.3
31	1.2 E		1.0 E	0.9 E		4.0		29		3.8	1.4	
Mean	1.2	1.0	1.0	0.9	1.9	3.5	6.4	15.9	30.1	5.4	2.0	1.4
Ac-Ft.	72	60	61	58	112	213	379	976	1789	333	124	84

E — Estimated NR — No Record

Total Discharge in Acre-Feet 4261

TABLE 356

DAILY MEAN DISCHARGE
PINE CREEK NEAR SUSANVILLE

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						0	99	5.3				
2						0	101	4.1				
3						0	112	3.3				
4						0	105	5.9				
5						0	101	7.4				
6						0	90	9.6				
7						0	74	9.1				
8						0	73	6.3				
9						0	59	4.6				
10						0.3	44	4.1				
11						7.0	34	4.1				
12	N	N	N	N	N	11	27	3.1	N	N	N	N
13	O	O	O	O	O	33	24	2.7	O	O	O	O
14						52	19	2.5				
15						82	15	2.3				
16	F	F	F	F	F	39	16	1.8	F	F	F	F
17	L	L	L	L	L	44	15	1.6	L	L	L	L
18	O	O	O	O	O	66	11	0.9	O	O	O	O
19	W	W	W	W	W	71	8.7	0.4	W	W	W	W
20						69	8.2	0				
21						64	9.1	0				
22						55	9.1	0				
23						44	13	0				
24						46	16	0				
25						74	16	0				
26						69	13	0				
27						101	11	0.1				
28						149	9.6	0.2				
29						130	8.2	0				
30						120	7.4	0				
31						96		0				
Mean	0	0	0	0	0	45.9	38.3	2.6	0	0	0	0
Ac-Ft	0	0	0	0	0	2821	2278	157				

E — Estimated NR — No Record

Total Discharge in Acre-Feet 5256

TABLE 357

DAILY MEAN DISCHARGE
WILLOW CREEK NEAR LITCHFIELD

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	28	29	34 E	56	32 E	46	20	19	15	14	16
2	24	27	29	32 E	58	31 E	43	19	18	15	14	16
3	24	28	29	32 E	49	30	41	18	18	15	14	15
4	24	28	29	31 E	43	30	39	19	18	15	14	15
5	24	28	27	30 E	42	34	31	20	17	15	14	15
6	25	24	27	30	46	47	25	20	16	15	14	15
7	25	19	27	31	336	88	24	21	15	16	14	15
8	31	18	27	35	1010	108	24	21	15	16	14	16
9	31	18	27	36	624	88	23	21	15	16	14	16
10	33	21	27	35	386	71	22	21	15	15	14	16
11	22	27	28	35	233	67	24	20	15	15	13	16
12	21	28	28	35 E	146	65	24	20	15	15	13	15
13	26	29	28	34 E	119	67	22	20	15	15	13	15
14	27	29	32	34	96 E	63	22	20	15	15	13	15
15	26	29	31	34	100 E	57	23	20	15	15	13	15
16	26	29	31	33 E	90 E	53	22	19	15	15	13	15
17	26	29	31	33	75 E	51	22	18	15	15	13	15
18	26	28	32	34	68 E	49	20	17	14	14	14	16
19	26	29	30	33	63 E	46	22	15	14	14	14	16
20	26	29	31	34	57 E	44	17	15	14	14	14	16
21	20	29	32	34	58 E	43	18	16	14	14	14	15
22	18	29	32	34	50 E	35	20	17	14	14	14	16
23	18	29	34	34	47 E	36	23	17	14	14	14	15
24	18	30	37	34	43 E	34	22	17	14	14	15	15
25	17	30	38	34	43 E	28	20	18	14	14	15	15
26	19	30	35	35	40 E	25	22	18	14	14	14	15
27	20	30	34	34	38 E	27	24	18	15	14	14	15
28	23	30	35	34	36 E	31	25	18	14	14	15	15
29	28	29	34	34	33 E	41	22	19	14	15	15	15
30	28	30	34	36		42	20	19	14	15	15	15
31	28		34 E	38		47		19		14	16	
Mean	24.3	27.4	30.9	33.7	141	48.7	25.1	18.7	15.1	14.7	14.0	15.3
Ac-Ft	1496	1628	1902	2075	8103	2995	1492	1150	901	904	861	912

E — Estimated NR — No Record

Total Discharge in Acre-Feet 24420

TABLE 358

DAILY MEAN DISCHARGE
OOLD RUN CREEK NEAR SUSANVILLE

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.6	0.6	0.7 E	2.0	1.5 E	9.2	9.5	9.5	1.2	0.2	0.1
2	0.5	0.6	0.6	0.7 E	1.8	1.5	9.5	11	9.5	1.2	0.2	0.1
3	0.5	0.6	0.6	0.7 E	1.2	1.5	11	11	8.8	1.1	0.2	0.1
4	0.5	0.6	0.6 E	0.7 E	1.0	2.1	13	10	8.5	1.0	0.2	0.2
5	0.5	0.6	0.6 E	0.7 E	1.5	5.3	14	10	8.1	0.9	0.2	0.2
6	0.4	0.6	0.6 E	0.7 E	2.0	6.9	16	12	7.5	1.0	0.2	0.1
7	0.5	0.6	0.7 E	0.7 E	19	31	17	16	7.2	0.9	0.1	0.1
8	0.5	0.6	0.7 E	0.7 E	68	13	17	16	6.1	0.8	0.1	0.1
9	0.6	0.6	0.7 E	0.7 E	14	8.5	17	16	5.6	0.7	0.1	0.2
10	0.5	0.6	0.7 E	0.7 E	6.9	6.3	16	18	4.8	0.6	0.1	0.2
11	0.5	0.6	0.7 E	0.7 E	4.6	5.6	14	18	4.8	0.5	0.1	0.2
12	0.4	0.6	0.7 E	0.7 E	3.8	5.8	12	17	4.8	0.5	0.1	0.1
13	0.5	0.6	0.7 E	0.7 E	3.3	5.8	13	15	4.4	0.5	0.1	0.1
14	0.5	0.6	0.7 E	0.7 E	2.6 E	5.3	13	14	4.2	0.4	0.1	0.1
15	0.5	0.6	0.7 E	0.7 E	2.5	4.6	12	14	4.2	0.4	0.1	0.1
16	0.5	0.6	0.7 E	0.7 E	2.2 E	4.2	11	13	3.8	0.4	0.1	0.1
17	0.5	0.6	0.7 E	0.7 E	2.1 E	4.4	11	13	3.4	0.3	0.1	0.1
18	0.5	0.6	0.7 E	0.7 E	2.1	5.1	12	11	3.3	0.3	0.1	0.1
19	0.5	0.6	0.7 E	0.8	2.1 E	6.1	13	11	2.9	0.2	0.1	0.1
20	0.5	0.6	0.7 E	0.8	2.0 E	7.5	14	11	2.8	0.2	0.1	0.1
21	0.5	0.6	0.7 E	0.7	2.0 E	8.8	15	11	2.6	0.2	0.1	0.1
22	0.5	0.6	0.7 E	0.7	1.8 E	9.2	14	9.2	2.3	0.2	0.1	0.1
23	0.5	0.7	0.7 E	0.7	1.7 E	11	11	8.5	2.1	0.1	0.2	0.2
24	0.5	0.7	0.7 E	0.7	1.6 E	11	10	8.5	1.8	0.1	0.2	0.1
25	0.5	0.7	0.7 E	0.8	1.6	12	9.5	8.5	1.8	0.1	0.2	0.1
26	0.5	0.6	0.7 E	0.7	1.5	12	9.2	8.8	1.7	0.1	0.2	0.1
27	0.5	0.5	0.7 E	0.7	1.5	17	8.8	8.5	1.5	0.2	0.2	0.1
28	0.6	0.6	0.7 E	0.8	1.5	14	8.1	8.5	1.4	0.2	0.2	0.1
29	0.6	0.6 E	0.7 E	0.9	1.5 E	11	7.8	8.5	1.3	0.3	0.2	0.1
30	0.6	0.6	0.7 E	1.0		11	8.1	8.5	1.2	0.2	0.1	0.2
31	0.6		0.7 E	1.0		9.9		9.2		0.2	0.1	
Mean	0.5	0.6	0.7	0.7	5.5	8.4	12.2	11.7	4.4	0.5	0.1	0.1
Ac-Ft	31	36	42	45	316	514	726	722	262	30	9	7

E — Estimated NR — No Record

Total Discharge in Acre-Feet 2740

TABLE 359

DAILY MEAN DISCHARGE
LONG VALLEY CREEK NEAR DOYLE

In second-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.0E	5.0E	6.9E	9.4E	9.4	11	18	4.1	4.1	3.0	3.7	3.0
2	4.0E	5.0E	6.9E	9.4E	18	11	16	4.9	4.5	2.7	3.0	2.7
3	4.0E	5.0E	6.9	9.4E	13	12	16	6.3	4.9	2.4	3.0	4.1
4	4.0E	5.0E	6.9	9.4E	11	12	15	5.8	4.9	2.4	2.7	3.7
5	4.0E	5.3	6.9E	9.4E	10	12	16	5.3	4.9	2.2	2.7	3.7
6	5.0E	4.9E	6.9E	9.4E	11	15	16	5.3	5.3	2.2	1.7	3.4
7	5.0E	4.9E	6.3E	9.4E	15	33	16	5.8	6.9	1.7	1.5	3.4
8	5.0E	5.8E	6.3E	9.4	336 E	77	15	6.9	6.3	2.0	1.7	3.0
9	5.0E	6.9E	6.9E	8.7	118 E	21	13	6.3	8.0	2.2	1.5	3.4
10	5.0E	6.3E	6.9E	8.1	49	25	12	6.3	8.7	2.2	1.7	3.7
11	5.0E	5.8E	6.9E	8.1	23	26	12	5.8	8.0	1.4	1.5	4.1
12	5.0E	4.9	6.9E	8.1	16	28	12	5.3	6.3	1.4	1.5	3.4
13	5.0E	5.3	6.9E	8.1E	16	46	11	6.3	5.8	1.2	1.4	3.4
14	5.0E	6.3E	6.9E	8.1E	12	34	9.4	6.3	5.8	1.4	1.2	3.4
15	5.0E	5.8E	6.9E	7.5E	14	25	9.4	6.3	5.3	1.5	1.4	4.1
16	5.0E	5.3E	6.9E	7.5E	12	22	9.4	6.3	4.9	1.5	1.2	3.4
17	5.0E	6.9E	6.9E	7.5E	12	21	8.7	6.3	4.9	1.5	1.0	3.0
18	5.0E	5.8E	6.3E	7.5	13	21	6.9	6.3	4.5	1.4	1.2	3.0
19	5.0E	5.3	6.9E	7.5	12	21	7.5	5.8	4.5	1.2	1.4	2.7
20	5.0E	7.5E	6.9E	5.8	12	20	6.9	5.8	4.5	1.2	2.5	2.5
21	5.0E	6.3	6.9E	5.8E	13	21	6.3	6.9	4.5	1.2	3.4	2.5
22	5.0E	7.5	6.9E	6.9	12	21	6.9	6.3	4.1	1.2	4.5	2.5
23	5.0E	6.3	6.9	6.9	14	21	6.9	5.3	4.1	1.0	5.8	2.5
24	5.0E	6.9	8.7	5.8	15	18	7.5	6.3	3.4	1.2	6.3	2.7
25	5.0E	5.3	10	7.5	13	18	6.3	6.3	2.4	1.4	5.8	2.7
26	5.0E	6.3	10 E	8.1	12	17	6.3	6.3	2.7	1.4	4.9	3.4
27	5.0E	6.3E	10 E	8.1	12	20	5.3	5.8	2.4	1.7	4.9	2.7
28	5.0E	8.1E	10 E	7.5	10	32	5.3	6.3	2.7	2.2	4.5	3.4
29	5.0E	7.5E	9.4E	6.9	10	25	4.9	6.3	3.4	3.0	3.0	3.4
30	5.0E	6.9E	9.4E	7.5		21	4.9	5.8	3.0	27	4.1	3.0
31	5.0E		9.4E	8.1		21		5.8		4.5	3.4	
Mean	4.8	6.0	7.5	8.0	29.1	23.8	10.2	6.0	4.9	2.7	2.8	3.2
Ac-Ft.	298	358	464	490	1673	1464	609	367	289	164	175	190

E – Estimated NR – No Record Total Discharge in Acre-Feet 6541

TABLE 360

DAILY MEAN DISCHARGE
BLACKWOOD CREEK NEAR TAHOE CITY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	1.3	1.[illegible]	[illegible].1 E	[illegible] E	1[illegible] E	42	45	143	11	2.3	1.1
2	1.3	1.3	1.3	[illegible].1 E	[illegible].1 E	1[illegible] E	49	54	159	11	2.0	1.1
3	0.9	1.7	1.5	[illegible].1 E	[illegible].1 E	17 E	60	5[illegible]	146	9.[illegible]	2.0	0.9
4	1.1	1.3	1.5	[illegible].1 E	[illegible].1 E	17 E	[illegible]2	47	133	[illegible]	[illegible]	1.1
5	0.9	1.3	1.[illegible]	[illegible].1 E	[illegible].1 E	17 E	1[illegible]6	47	1[illegible]0	[illegible].7	[illegible].6	0.7
6	1.1	1.1	1.3	[illegible].1 E	2.1 E	17 E	1[illegible]7	60	110	8.1	[illegible].6	[illegible].7
7	1.3	1.3	1.3	[illegible].1 E	16 E	17 E	148	82	99	10	[illegible]	1.4
8	1.1	0.9	1.5	2.1 E	16 E	17 E	135	[illegible]7	84	7.[illegible]	[illegible].0	1.5
9	1.3	1.1	1.5 E	[illegible].1 E	16 E	17 E	135	113	75	7.[illegible]	1.7	1.7
10	1.5	1.1	1.5 E	[illegible].1 E	16 E	17 E	13[illegible]	1[illegible]5	63	6.4	1.7	1.3
11	1.5	0.9	1.7	[illegible].1 E	16 E	[illegible].7 E	106	140	69	[illegible].9	1.5	1.1
12	1.5	1.1	1.7	[illegible].1 E	16 E	17 E	84	[illegible]	65	[illegible].4	1.7	1.7
13	1.5	1.3	2.0	2.1 E	16 E	17 E	93	[illegible]	64	[illegible]	1.6	[illegible].7
14	1.5	1.3	4.1	2.1 E	16 E	17 E	1[illegible]1	1[illegible]	65	[illegible]	1.5	[illegible].7
15	1.7	1.3	[illegible].0 E	2.1 E	16 E	17 E	91	106	[illegible]	[illegible].4	1.7	0.9
16	1.5	1.7	2.0 E	2.1 E	11 E	17 E	86	104	49	[illegible].4	[illegible].0	[illegible].5
17	1.5	1.5	1.7 E	2.1 E	6.9 E	[illegible]1 E	91	104	47	4.[illegible]	1.5	0.7
18	1.5	1.5	1.5 E	2.1 E	8.9 E	[illegible]4 E	97	[illegible]	[illegible]	4.5	1.5	[illegible].7
19	1.7	1.5	1.5	2.1 E	[illegible].9 E	[illegible]4 E	99	[illegible]6	[illegible]	[illegible]	1.5	0.7
20	1.7	1.5	1.5	2.1 E	[illegible].9 E	54 E	110	[illegible]	[illegible]1	4.1	1.3	0.5
21	2.0	1.5	1.5	2.1 E	8.9 E	54 E	118	[illegible]	[illegible].8	3.7	1.5	0.5
22	2.0	1.5	1.5	2.1 E	8.9 E	[illegible]4 E	101	84	25	3.7	2.0	0.9
23	2.0	1.5	1.5	2.1 E	8.9 E	[illegible]4 E	75	[illegible]	[illegible]2	3.3	2.0	0.5
24	1.6 E	1.3	2.0	2.1 E	[illegible].9 E	54 E	55	[illegible]	20	[illegible].3	2.0	0.5
25	1.6 E	1.5	2.3	2.1 E	8.9 E	54 E	55	[illegible]	20	[illegible].3	1.7	0.7
26	1.6 E	1.5	2.6	2.1 E	8.9 E	54 E E	47	54	1[illegible]	3.3	1.5	0.9
27	1.6 E	1.1	2.6	2.1 E	8.9 E	54 E	46	57	16	[illegible]	1.7	[illegible].7
28	1.3 E	1.1	1.5	2.1 E	8.9 E	54 E	4[illegible]	65	14	[illegible]	1.7	1.1
29	1.5	1.3	2.0	2.1 E	8.9 E	54 E	[illegible]	76	1[illegible]	[illegible].6	1.5	1.3
30	1.3	1.3	2.0	2.1 E		47 E	[illegible]	99	11	[illegible]	1.1	1.[illegible]
31	1.3		1.5	2.1 E		40		118		[illegible].6	1.3	
Mean	1.5	1.3	1.8	[illegible].1	9.8	[illegible].2	86.4	82.4	61.1	[illegible]	[illegible]	[illegible]
Ac-Ft	89	79	110	129	562	2039	5143	5066	3638	[illegible]	[illegible]	4

E – Estimated NR – No Record Total Discharge in Acre-Feet 17[illegible]

TABLE 361

DAILY MEAN DISCHARGE
TROUT CREEK NEAR TAHOE VALLEY

In second feet

Date	1959			1960								
	Oct.	Nov	Dec	Jan	Feb	Mar.	Apr	May	June	July	Aug	Sept
1	7.9	10	13 E	12 E	14	14 E	[illegible]	4	22	8.2	[illegible]	4.0
2	7.9	11	13 E	12 E	14 E	14 E	27	25	23	8.4	4.9	4.3
3	7.7	12	13	12 E	14 E	14	29	24	23	8.4	4.2	4.3
4	7.7	12	12 E	12 E	14 E	14	31	24	23	8.6	4.2	4.5
5	7.7	12 E	12 E	12 E	14	15	32	22	22	8.4	4.5	4.9
6	7.7	14 E	12 E	12 E	13	18	35	20	22	8.2	4.5	4.
7	7.5	14 E	12 E	12 E	17	26	38	21	21	[illegible]	4.3	4.[illegible]
8	7.9	14 E	12 E	12 E	62	27	36	22	20	7.[illegible]	4.3	4.7
9	7.9	15 E	12 E	12 E	29	22 E	35	24	19	[illegible]	4.5	4.5
10	7.7	15 E	12 E	12 E	25	20 E	34	26	19	7.3	4.5	[illegible]
11	7.5	13 E	14 E	12 E	23 E	19	33	27	16	7.5	4.3	5.6
12	7.5	14 E	12 E	12 E	22 E	19	29	29	1[illegible]	7.1	4.3	5.3
13	7.3	15 E	12 E	12 E	20	20 E	29	29	1[illegible]	7.1	4.3	4.7
14	7.3	15 E	12 E	12 E	19 E	18 E	30	28	16	7.1	4.3	4.7
15	7.1	15 E	12 E	12 E	18 E	18 E	29	27	1[illegible]	6.9	4.2	4.5
16	7.1	14 E	12 E	12 E	17 E	17	28	26	1[illegible]	4.3	4.3	[illegible]
17	7.1	14 E	12 E	12 E	17 E	18	29	26	14	5.3	4.5	4.9
18	6.6	14 E	13 E	12 E	17 E	20	30	25	14	5.6	4.2	4.9
19	7.1	14	12 E	12 E	17 E	21	31	24	13	5.6	4.0	4.9
20	7.1	13 E	11 E	14 E	17 E	23	31	24	13	3.2	4.0	4.9
21	7.1	13	11	14 E	17 E	25	32	25	13	3.2	4.0	4.9
22	7.1	13 E	11 E	13 E	17 E	27	31	23	12	3.7	4.2	4.9
23	7.1	13	11	13 E	17 E	28	28	23	11	2.9	4.2	4.9
24	7.7	13 E	12	13 E	17 E	29	27	22	11	3.7	4.2	5.1
25	7.7	14	11 E	13	16	31	26	21	10	3.8	4.3	5.1
26	7.1	13	11 E	13	16 E	32	25	21	9.8	4.0	4.2	5.1
27	7.7	13 E	11 E	13	16 E	33	25	21	7.3	4.3	4.0	4.9
28	7.9	13 E	11 E	13	15 E	31	25	21	5.[illegible]	4.7	4.2	5.1
29	8.6	13 E	11 E	13	15 E	28	24	21	8.4	5.1	4.0	5.3
30	9.3	14 E	11 E	13		28	24	21	8.4	5.4	4.0	5.3
31	9.6		11 E	14		27 E		22		4.7	4.0	
Mean	7.6	13.4	11.8	12.5	18.9	22.5	29.6	23.8	15.5	6.0	4.3	4.9
Ac-Ft	469	797	728	768	1089	1381	1763	1464	925	370	264	289

E — Estimated NR — No Record

Total Discharge in Acre-Feet 10307

TABLE 362

DAILY MEAN DISCHARGE
UPPER TRUCKEE RIVER NEAR MEYERS

In second feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.2	4.3	3.5	3.8	5.9	7.8	38	56	177	16	5.5	4.0
2	4.4	4.3	3.6	4.2	6.2	7.8 E	46	60	204	17	4.7	3.2
3	4.4	4.3	3.7	4.2	6.0 E	7.7	64	62	168	16	4.7	2.4
4	4.0	4.3	3.4	4.0	6.0 E	7.7	87	56	149	15	4.6	2.6
5	4.0	4.1	3.0	4.0	5.9	8.8	112	54	139	15	4.1	2.6
6	4.0	4.1	3.5	3.8	6.2	11	137	72	123	15	3.7	2.4
7	4.0	4.3	3.6	4.0	9.8	31	159	114	107	14	3.4	2.4
8	4.0	3.9	3.6	4.2	50	41 E	147	140	93	15	3.4	2.4
9	4.2	3.9	3.7	4.2	31 E	24 E	161	157	85	15	3.5	2.6
10	4.4	3.9	3.8	4.8	21 E	19 E	169	187	84	12	3.7	3.2
11	4.0	3.9	4.0	4.6 E	18 E	18	140	225	83	11	3.4	3.6
12	4.0	3.9	4.3	4.6 E	17	20	91	240	76	10	3.5	3.2
13	3.8	3.9	4.2	4.6 E	15	20	87	191	70	9.9	3.5	2.9
14	4.0	3.9	3.9	4.8	15 E	17	104	179	62	9.2	3.3	2.6
15	4.0	3.7	4.0	5.0	13 E	16	97	173	56	8.9	3.0	2.7
16	4.0	3.7	4.0	5.0	13 E	15	91	157	54	8.6	2.9	2.6
17	4.0	3.9	3.9	4.6	12 E	16	104	150	54	8.1	2.9	2.6
18	4.0	3.9	3.8	4.8	11	19	117	137	46	7.5	2.9	2.7
19	4.0	4.1	3.4	4.7	10	23	118	125	40	7.0	2.6	2.6
20	4.0	3.9	3.4	4.9	9.5 E	28	133	141	38	6.8	2.4	2.6
21	4.0	3.9	3.5	5.0	9.5 E	35	157	130	34	6.5	2.3	2.6
22	4.2	3.9	3.6	5.0	9.5 E	42	134	94	32	6.3	2.4	2.7
23	4.2	4.0	3.6	5.2	9.5 E	51	91	83	30	6.0	3.3	3.3
24	4.4	3.8	3.8	5.4	9.5 E	57	76	73	27	5.6	4.0	3.3
25	4.2	3.7	4.2	6.3	8.8	65	67	71	25	5.6	3.8	3.3
26	4.2	3.8	3.6	5.9	8.8 E	73	61	80	23	5.3	3.8	3.3
27	4.1	3.5	3.6	5.4	8.8 E	69	60	101	21	6.0	3.8	3.0
28	4.0	3.7	4.0	5.4	8.4 E	54	54	115	20	7.2	4.0	3.0
29	4.0	3.3	3.8	5.4	8.4 E	46	50	126	18	6.4	4.0	3.0
30	4.2	3.5	4.0	5.4		42	49	139	17	6.4	4.0	3.3
31	4.3		3.9 E	5.2		39		156		6.4	4.0	
Mean	4.1	3.9	3.7	4.8	12.5	30.0	100	124	71.8	9.8	3.6	2.9
Ac-Ft	252	233	230	294	719	1846	5952	7624	4274	604	220	172

E — Estimated NR — No Record

Total Discharge in Acre-Feet 22420

TABLE 363

STREAM FLOW MEASUREMENTS AT MISCELLANEOUS SITES

Measurements of stream flow at points other than gaging stations or at points where flow has not been computed are listed in the following tables.

Lahontan Area

Stream	Tributary	Location	Measurements		
			Date	Gage Height (ft.)	Discharge (cfs)
Eagle Lake Tunnel near Susanville	Willow Creek		11-25-59	4.47 (A)	4.91 (B)
			5-17-60	5.53 (A)	5.74 (B)

(A) Referred to Recorder Station "Eagle Lake near Susanville".
(B) Measured 75 feet below tunnel outlet.

SAN FRANCISCO BAY AREA

SAN FRANCISCO BAY AREA

Introduction

Reporting of stream flow in this area is initiated in this report. For convenience of presentation herein the San Francisco Bay Area has been divided into three major subareas. These are designated and are herein referred to as the "North Bay," "Southeast Bay," and "Peninsula Area."

The North Bay Area embraces those portions of Marin, Sonoma, Napa, and Solano Counties draining into San Francisco, Bodega, Tomales, San Pablo, and Suisun Bays. It reaches from the Pacific Ocean on the west to the Sacramento-San Joaquin Delta on the east, and extends north to the drainage divides defining the Sacramento Valley and the Russian River Basin. The area is drained by the Napa River and Suisun, Sonoma, and San Antonio Creeks, which flow into San Francisco Bay, and Lagunitas Creek, which empties into Bodega Bay.

The Southeast Bay Area comprises the portion of Contra Costa, Alameda, and Santa Clara Counties within the San Francisco Bay drainage, being bounded by San Pablo and Suisun Bays on the north, the San Joaquin Valley drainage divide on the east, San Francisco Bay and San Mateo County line on the west, and the Santa Cruz Mountains and Morgan Hill Divide on the south.

The Penisula Area comprises the City and County of San Francisco and nearly all of San Mateo County. The Peninsula Area is drained principally by streams on the western slope which discharge into the Pacific Ocean.

Because of its mild and equable climate, its strategic location, its waterways and outstanding natural harbor, and its fertile agricultural lands, the San Francisco Bay Area has become one of the most highly developed regions in California. However, this high degree of development has imposed water demands far in excess of the yield of local water resources throughout most of the area.

It is estimated that satisfaction of water requirements in the San Francisco Bay Area will ultimately involve the use of nearly seven per cent of the total developed water supplies in the State.

Tabular Information

On the following pages are data for 3 gaging stations for the 1960 water year.

Two of the following tables present stream flow data, and one table presents daily maximum and minimum tides on Suisun Bay at Benicia.

LOCATION			MAXIMUM DISCHARGE						TOTAL DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	1959-60 WATER YEAR			OF RECORD			1959-60 WATER YR. IN AC.-FT.	1959 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		
ARROYO DE LOS CHOCHES NEAR MILPITAS																
37 26 38	121 51 45	NW4 6S 1E	3.4	1.79	2/ 5/60	3.4	1.79	2/ 5/60	92		OCT 59-DATE	SEP 59-DATE	1959		0.00	LOCAL
Station located 200 ft. above Calaveras Road Bridge, 2.6 mi. NE of Milpitas. Tributary to Coyote Creek via Penitencia Creek. Recorder installed Sep. 16, 1959 (f)																
SUISUN BAY AT BENICIA ARSENAL																
38 02 34	122 08 00	SW6 2N 2W		4.5	12/30/59 1/25/60		5.7	4/ 6/58				JUN 29-APR 40 APR 40-DATE	1929 1940 1942	1940 1942	-2.21 -5.00 0.00	USCGS USCGS USCGS
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)																
WALNUT CREEK AT PLEASANT HILL																
37 56 54	122 03 14	NE11 1N 2W									NOV 59-DATE	NOV 59-DATE	1959		0.00	CHC
Station located 0.5 mi. below State Highway 24 Bridge. Tributary to Suisun Bay via Pacheco Creek. Recorder installed November 5, 1959. Results of measurements made are tabulated in Table 368.																

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

TABLE 365

GAGING STATION
ADDITIONS and DELETIONS

SAN FRANCISCO BAY AREA

NEW STATIONS

Arroyo De Los Coches near Milpitas

STATIONS DROPPED

None

TABLE 366

DAILY MEAN DISCHARGE
ARROYO DE LOS COCHES CREEK NEAR MILPITAS

In second feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.1	0.1	0.3	0.4	0.3	0.2				
2	0.1	0.1	0.1	0.1	0.3	0.4	0.2	0.1				
3	0.1	0.1	0.1	0.1	0.3	0.4	0.2	0.2				
4	0.1	0.1	0.1	0.1	0.3	0.4	0.2	0.1				
5	0.1	0.1	0.1	0.1	0.7	0.4	0.2	0.1				
6	0.1	0.2	0.1	0.1	0.3	0.4	0.1	0.1				
7	0.1	0.2	0.1	0.1	0.3	0.4	0.2	0.1				
8	0.1	0.2	0.1	0.2	0.8	0.4	0.2	0.1				
9	0.1	0.2	0.1	0.2	0.6	0.4	0.2	0.1				
10	0.1	0.2	0.1	0.2	1.0	0.3	0.2	0.1				
11	0.1	0.2	0.1	0.2	0.6	0.3	0.2	0.1				
12	0.1	0.2	0.1	0.1	0.5	0.4	0.2	0.1	N	N	N	N
13	0	0.2	0.1	0.1	0.4	0.4	0.2	0.1	O	O	O	O
14	0	0.2	0.1	0.2	0.4	0.3	0.2	0.1				
15	0	0.2	0.1	0.2	0.4	0.3	0.2	0.1				
16	0	0.2	0.2	0.1	0.4	0.3	0.2	0.1	F	F	F	F
17	0	0.2	0.2	0.1	0.4	0.3	0.2	0.1	L	L	L	L
18	0	0.2	0.1	0.1	0.4	0.3	0.2	0.1	O	O	O	O
19	0	0.2	0.1	0.1	0.4	0.3	0.2	0	W	W	W	W
20	0.1	0.2	0.1	0.1	0.4	0.3	0.2	0				
21	0.1	0.2	0.1	0.1	0.4	0.3	0.2	0				
22	0.1	0.2	0.1	0.1	0.4	0.3	0.2	0				
23	0.1	0.2	0.1	0.2	0.3	0.3	0.3	0				
24	0.1	0.1	0.1	0.2	0.4	0.2	0.2	0				
25	0.1	0.1	0.1	0.2	0.4	0.2	0.2	0				
26	0.1	0.1	0.1	0.2	0.4	0.2	0.2	0				
27	0.1	0.1	0.1	0.2	0.4	0.3	0.3	0				
28	0.1	0.1	0.1	0.1	0.4	0.3	0.2	0				
29	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.1				
30	0.1	0.1	0.1	0.2		0.3	0.2	0				
31	0.1		0.1	0.2		0.3		0				
Mean	0.1	0.2	0.1	0.1	0.4	0.3	0.2	0.1	0	0	0	0
Ac-Ft	5	10	7	9	25	20	12	4	0	0	0	0

E — Estimated NR — No Record

Total Discharge in Acre-Feet 92

TABLE 367

DAILY MAXIMUM AND MINIMUM GAGE HEIGHTS
SUISUN BAY AT BENICIA ARSENAL

In feet

Date	1959		1960						Date	1959		1960					
	Nov	Dec	Jan.	Feb	Mar	Apr	May	June		Nov.	Dec.	Jan.	Feb	Mar.	Apr	May	June
1	3.9 -2.3E	4.0 -2.7E	3.5 -2.7E	3.8 -0.9	3.3 -1.5	2.6 -2.7E	2.1 -2.5E	2.7 -2.0	17	3.2 -2.2E	3.3E -2.2E	2.7 -2.4E	3.1 -1.6	3.3 -2.4E	2.8 -3.1E	2.6 -2.5E	3.5 -1.0
2	4.0 -2.2E	4.0 -2.5E	3.0 -2.6E	3.6 -1.2	2.9 -1.8	2.2 -2.3E	2.3 -2.3E	3.0 -1.6	18	3.3 -2.1	3.2 -2.2E	2.4 -2.2	3.5 -1.4	3.4 -2.3E	2.8 -2.9E	2.6 -2.5E	3.6 -1.2
3	4.0 -2.4E	3.8 -2.4E	2.6 -2.6E	3.4 -0.7	2.8 -1.7	2.2 -1.9	2.4 -2.1	3.5 -1.0	19	3.0 -2.2E	2.8 -2.2E	2.7 -1.7	3.4 -1.8	3.4 -2.3E	2.6 -2.8E	2.9 -2.4E	3.4 -1.6
4	3.6 -2.5E	3.2 -2.5E	2.7 -2.5E	3.2 -1.3	2.8 -1.6	2.0 -1.8	2.4 -2.1	3.7 -0.7	20	2.7 -2.3E	2.7 -2.1	3.1 -0.9	3.1 -2.6E	3.3 -2.3E	2.8 -2.5E	3.0 -1.9	3.5 -2.0
5	3.1 -2.5E	2.6 -2.5E	2.9 -2.1	3.4 -1.4	2.8 -1.5	2.3 -1.8	2.6 -2.0	3.8 -0.9	21	2.3 -2.2E	2.8 -1.9	3.9 -0.9	3.2 -2.7E	3.3 -2.3E	2.9 -2.1	3.2 -2.0	3.6 -2.2E
6	2.7 -2.5E	2.7 -2.5E	3.0 -1.5	3.1 -1.9	2.5 -2.0	2.7 -1.8	2.8 -2.0	4.0 -1.4	22	2.2 -2.3E	3.0 -1.7	3.8 -1.3	3.6 -2.7E	3.3 -2.3E	2.9 -2.1	3.3 -2.2E	3.7 -2.2
7	2.6 -2.4E	3.1 -1.9	3.3 -1.4	3.4 -1.6	2.9 -2.0	2.8 -2.1	3.2 -1.8	4.2 -2.0	23	2.3 -2.3E	3.4 -1.2	3.7 -2.0	3.5 -2.8E	3.5 -2.2E	3.2 -2.1	3.3 -2.3E	3.7 -2.1
8	2.8 -2.1	3.4 -1.3	3.6 -1.6	4.4 -1.0	2.7 -2.3E	3.0 -2.1	3.2 -1.8	4.3 -2.3E	24	2.6 -1.9	3.9 -0.8	4.1 -1.9	3.6 -2.7E	3.5 -2.1E	3.2 -2.4E	3.5 -2.2E	3.7 -2.1
9	2.9 -1.8	3.6 -1.1	3.7 -1.7	4.4 -1.6	2.9 -2.3E	3.0 -2.0	3.4 -2.3E	4.3 -2.4E	25	3.0 -1.6	4.1 -1.4	4.5 -1.8	3.9 -2.4E	3.4 -2.0	3.1 -2.5E	3.3 -2.5E	3.7 -2.0
10	3.1 -1.5	3.5 -1.6	4.0 -1.6	3.9 -2.4E	3.0 -2.3E	3.0 -2.0	3.5 -2.4E	4.3 -2.5E	26	3.2 -1.7	3.8 -2.3E	4.4 -2.2E	3.9 -2.3E	3.4 -1.6	3.4 -2.2E	3.1 -2.6E	3.6 -2.1
11	3.3 -1.4	3.5 -2.0	4.5 -1.5	3.6 -2.6E	3.4 -2.1E	3.3 -2.1	3.7 -2.4E	4.2 -2.5E	27	3.4 -2.1	3.9 -2.5E	4.3 -2.4E	3.4 -2.3E	3.6 -1.5	3.8 -2.1	3.0 -2.5E	3.3 -2.1
12	3.4 -1.6	3.5 -2.1	3.7 -2.2E	3.4 -2.7E	3.5 -1.8	3.2 -2.6E	4.0 -2.5E	3.9 -2.5E	28	3.7 -2.4E	4.2 -2.5E	4.0 -2.5E	3.3 -2.1	3.7 -1.7	3.4 -2.4E	3.0 -2.4E	2.9 -2.1
13	3.6 -1.8	3.2 -2.6E	3.7 -2.2E	3.4 -2.6E	3.3 -2.1E	3.3 -2.8E	3.7 -2.6E	3.4 -2.4E	29	3.9 -2.6E	4.4 -2.4E	3.8 -2.4E	3.3 -1.7	3.4 -2.0	3.0 -2.6E	3.0 -2.4E	2.4 -2.1
14	3.6 -1.9	3.1 -2.6E	3.8 -2.2E	3.2 -2.5E	3.0 -2.1	3.4 -2.8E	3.6 -2.6E	3.1 -2.3E	30	4.0 -2.7E	4.5 -2.4E	3.5 -2.2E		3.5 -1.6	2.8 -2.6E	2.7 -2.4E	2.5 -2.1
15	3.6 -2.0	3.2 -2.5E	3.4 -2.4E	2.8 -2.3E	3.0 -2.2E	3.0 -3.2E	3.4 -2.6E	3.1 -2.2E	31		4.0 -2.6E	3.4 -1.8		3.0 -2.5E		2.5 -2.3E	
16	3.4 -2.2E	3.4 -2.3E	3.1 -2.4E	2.9 -1.9	3.1 -2.3E	3.0 -3.4E	2.9 -2.5E	3.5 -1.5									

Crest Stages:	Date	
	Time	
	Stage	

NR — No Record
E - Estimated

NOTE : Single daily values indicate daily mean stage only.

TABLE 368

STREAM FLOW MEASUREMENTS AT MISCELLANEOUS SITES

Measurements of stream flow at points other than gaging stations or at points where flow has not been computed are listed in the following table.

San Francisco Bay Area

Stream	Tributary	Location	Measurements		
			Date	Gage Height (ft.)	Discharge (cfs)
Walnut Creek at Pleasant Hill (R)	Suisun Bay	NE¼, Sec. 11, T1N, R2W	11- 6-59	30.38	1.51
			12- 7-59	30.34	1.67
			1- 8-60	30.48	7.60
			2- 4-60	30.66	11.9
			3- 4-60	30.90	19.3
			5-11-60	30.48	3.67
			5-19-60	30.32	2.08
			6-20-60	30.78	25.5
			7- 8-60	30.34	5.32
			7-27-60	30.21	0.61
			8- 9-60	30.59	11.8
			8-24-60	30.77	23.1

R - Recorder installation.

TABLE 369

DAILY GAGE HEIGHT*
BIG SAGE RESERVOIR NEAR ALTURAS

In feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15.05	14.75	14.65	14.70	14.90	16.70	18.15	18.05	17.65	16.50	15.30	13.85
2	15.00	14.75	14.65	14.70	14.95	16.70	18.15	18.05	17.65	16.45	15.25	13.80
3	15.00	14.70	14.65	14.70	15.00	16.70	18.15	18.05	17.60	16.40	15.20	13.75
4	15.00	14.70	14.60	14.70	15.00	16.75	18.15	18.10	17.60	16.40	15.15	13.75
5	14.95	14.70	14.60	14.70	15.00	16.75	18.15	18.05	17.55	16.35	15.10	13.70
6	14.95	14.70	14.60	14.70	15.00	16.90	18.15	18.05	17.55	16.30	15.05	13.65
7	14.90	14.70	14.60	14.70	15.15	17.05	18.20	18.10	17.50	16.30	15.00	13.65
8	14.90	14.70	14.60	14.70	15.80	17.20	18.20	18.10	17.50	16.25	14.95	13.60
9	14.90	14.70	14.60	14.75	16.35	17.30	18.20	18.10	17.45	16.20	14.90	13.55
10	14.90	14.70	14.60	14.75	16.50	17.35	18.20	18.05	17.40	16.15	14.85	13.50
11	14.90	14.70	14.60	14.75	16.55	17.40	18.20	18.05	17.40	16.10	14.85	13.50
12	14.90	14.70	14.60	14.75	16.60	17.50	18.20	18.05	17.35	16.05	14.80	13.45
13	14.85	14.70	14.60	14.75	16.65	17.85	18.20	18.00	17.35	16.05	14.75	13.40
14	14.85	14.65	14.60	14.75	16.65	18.00	18.20	18.00	17.30	16.00	14.70	13.35
15	14.85	14.65	14.60	14.75	16.65	18.05	18.20	18.00	17.20	16.00	14.65	13.35
16	14.85	14.65	14.60	14.75	16.70	18.05	18.15	17.95	17.15	15.95	14.60	13.30
17	14.85	14.65	14.60	14.75	16.70	18.05	18.15	17.95	17.10	15.90	14.55	13.25
18	14.80	14.65	14.60	14.75	16.70	18.10	18.15	17.90	17.05	15.90	14.50	13.20
19	14.80	14.65	14.60	14.75	16.70	18.10	18.15	17.90	16.95	15.85	14.45	13.15
20	14.80	14.65	14.60	14.75	16.70	18.10	18.10	17.85	16.90	15.80	14.40	13.15
21	14.80	14.65	14.60	14.75	16.70	18.10	18.10	17.85	16.85	15.75	14.35	13.15
22	14.80	14.65	14.60	14.75	16.70	18.10	18.10	17.85	16.85	15.70	14.30	13.10
23	14.80	14.65	14.60	14.80	16.70	18.10	18.10	17.80	16.80	15.65	14.25	13.10
24	14.80	14.65	14.65	14.80	16.70	18.10	18.10	17.80	16.75	15.60	14.20	13.10
25	14.80	14.65	14.70	14.80	16.70	18.10	18.10	17.80	16.70	15.55	14.15	13.10
26	14.80	14.65	14.70	14.80	16.70	18.10	18.10	17.75	16.70	15.50	14.10	13.10
27	14.80	14.65	14.70	14.80	16.70	18.10	18.10	17.75	16.65	15.45	14.05	13.10
28	14.80	14.65	14.70	14.85	16.70	18.10	18.10	17.75	16.60	15.40	14.00	13.05
29	14.80	14.65	14.70	14.85	16.70	18.10	18.05	17.70	16.60	15.40	13.95	13.05
30	14.75	14.65	14.70	14.85		18.15	18.05	17.70	16.55	15.40	13.95	13.05
31	14.75		14.70	14.85		18.15		17.70		15.35	13.90	

E — Estimated NR — No Record
* Gage heights shown are noon gage heights to nearest 0.05 foot.

TABLE 370

DAILY GAGE HEIGHT*
EAGLE LAKE NEAR SUSANVILLE

In feet

Date	1959			1960								
	Oct.	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.75	4.55	4.50	4.55	4.85	5.30	5.65	5.60	5.45	5.05	4.55	4.00
2	4.75	4.55	4.50	4.55	4.90	5.30	5.65	5.60	5.45	5.05	4.55	3.95
3	4.75	4.55	4.50	4.55	4.90	5.30	5.65	5.60	5.45	5.00	4.50	3.95
4	4.75	4.55	4.45	4.55	4.90	5.30	5.70	5.65	5.45	5.00	4.50	3.95
5	4.70	4.55	4.45	[illegible]	4.90	5.35	5.70	5.65	5.40	5.00	4.50	3.95
6	4.70	4.55	4.45	4.55	4.90	5.35	5.70	5.65	5.40	5.00	4.45	3.95
7	4.70	4.55	4.45	4.60	5.00	5.40	5.70	5.65	5.40	4.95	4.45	3.90
8	4.70	4.55	4.45	4.60	5.20	5.40	5.70	5.65	5.40	4.95	4.45	3.90
9	4.70	4.55	4.45	4.60	5.25	5.40	5.70	5.65	5.40	4.95	4.40	3.90
10	4.70	4.50	4.45	4.65	5.25	5.40	5.70	5.60	5.40	4.90	4.40	3.90
11	4.70	4.50	4.45	4.70	5.25	5.40	5.70	5.60	5.35	4.90	4.40	3.90
12	4.70	4.50	4.45	4.70	5.25	5.45	5.70	5.60	5.35	4.85	4.35	3.90
13	4.65	4.50	4.45	4.70	5.25	5.45	5.70	5.60	5.35	4.85	4.35	3.85
14	4.65	4.50	4.45	4.70	5.25	5.45	5.70	5.55	5.30	4.80	4.35	3.85
15	4.65	4.50	4.45	4.70	5.25	5.45	5.70	5.55	5.30	4.80	4.30	3.85
16	4.65	4.50	4.45	4.70	5.25	5.45	5.65	5.55	5.30	4.80	4.30	3.85
17	4.65	4.50	4.45	4.70	5.25	5.45	5.65	5.55	5.25	4.80	4.25	3.85
18	4.65	4.50	4.45	4.70	5.30	5.50	5.65	5.55	5.25	4.80	4.25	3.80
19	4.65	4.50	4.45	4.70	5.30	5.50	5.65	5.50	5.20	4.75	4.25	3.80
20	4.65	4.50	4.45	4.70	5.30	5.50	5.65	5.50	5.20	4.75	4.20	3.80
21	4.65	4.50	4.45	4.70	5.30	5.50	5.65	5.50	5.15	4.75	4.20	3.80
22	4.65	4.50	4.45	4.70	5.30	5.50	5.65	5.50	5.15	4.70	4.15	3.75
23	4.65	4.50	4.45	4.70	5.30	5.50	5.65	5.45	5.15	4.70	4.15	3.75
24	4.65	4.50	4.50	4.75	5.30	5.55	5.65	5.45	5.15	4.65	4.10	3.75
25	4.65	4.50	4.55	4.75	5.30	5.55	5.65	5.45	5.15	4.65	4.10	3.75
26	4.65	4.50	4.55	4.75	5.30	5.55	5.65	5.45	5.15	4.65	4.10	3.75
27	4.65	4.50	4.55	4.75	5.30	5.55	5.65	5.45	5.10	4.60	4.10	3.75
28	4.65	4.50	4.55	4.75	5.30	5.55	5.65	5.45	5.10	4.60	4.05	3.70
29	4.65	4.50	4.55	4.75	5.30	5.55	5.65	5.45	5.10	4.60	4.05	3.70
30	4.60	4.50	4.55	4.80		5.60	5.60	5.45	5.10	4.60	4.05	3.70
31	4.55		4.55	4.80		5.65		5.45		4.55	4.00	

E — Estimated NR — No Record
* Figures shown are noon gage heights to nearest 0.05 foot

TABLE [illegible]

[illegible]

Date	1959			1960									
	Oct.	Nov	Dec	Jan	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.
1	310.[illegible]	292.[illegible]	27[illegible]	[illegible]	[illegible]	[illegible].4	[illegible].1	[illegible].7	101[illegible]	[illegible].7	[illegible].4	[illegible].3
2	310.1	292.4	[illegible].1	[illegible]	11.[illegible]	[illegible]	711.[illegible]	71.[illegible]	1014.4	[illegible]	7[illegible].4	[illegible].3
3	309.4	291.9	271.5	262.[illegible]	[illegible]	[illegible].7	717.[illegible]	[illegible]	10[illegible].[illegible]	[illegible].0	[illegible]1.[illegible]	[illegible].4
4	308.[illegible]	291.3	271.1	[illegible]	1[illegible].[illegible]	[illegible]	[illegible].0	50.7	1019.[illegible]	913.3	[illegible]	[illegible].4
5	308.[illegible]	290.[illegible]	270.[illegible]	[illegible]	[illegible]	7[illegible].[illegible]	[illegible]	54.7	1017.[illegible]	908.7	71.[illegible]	[illegible]
6	307.5	290.[illegible]	270.0	[illegible]1.7	[illegible].1	1[illegible]	[illegible].4	[illegible]7.9	101[illegible]	900.0	70[illegible]	[illegible].4
7	306.8	289.7	269.5	[illegible]1.5	[illegible]	[illegible]	[illegible].7	92.6	101[illegible]	[illegible]3.5	[illegible]	70.[illegible]
8	306.1	289.2	[illegible]	[illegible]1.	[illegible]	7[illegible]	7[illegible]4.0	[illegible].7	101[illegible]	[illegible]	[illegible]1.1	[illegible]
9	305.5	288.7	[illegible]	[illegible].4	[illegible]	[illegible]1.0	773.0	906.3	101[illegible]	[illegible]	[illegible].4	[illegible]
10	304.8	288.3	[illegible]7.[illegible]	264.[illegible]	1[illegible]	94.[illegible]	7[illegible].0	914.0	1[illegible]	[illegible].0	[illegible].4	91.[illegible]
11	304.2	287.7	[illegible]	266.7	[illegible]0.	[illegible]	[illegible]0.0	[illegible]	101[illegible]	[illegible]	[illegible]	[illegible].1
12	303.5	287.2	[illegible]	[illegible].0	[illegible]	[illegible].1	[illegible].0	931.[illegible]	101[illegible]	[illegible]0.7	67[illegible]	[illegible].4
13	302.7	286.7	266.[illegible]	269.4	[illegible]1.	[illegible]1.4	[illegible].1	937.4	101[illegible]	[illegible]	[illegible]	[illegible]
14	302.0	286.1	265.4	[illegible]0.[illegible]	19.4	[illegible]1.	[illegible]01.	943.	101[illegible]	[illegible]1.4	[illegible]3.3	[illegible]1.4
15	301.4	285.6	265.[illegible]	270.6	51[illegible].7	[illegible]4.0	[illegible].	949.	1010.0	4[illegible]	[illegible]	[illegible]
16	300.8	285.0	265.1	270.8	1[illegible]	[illegible]4.[illegible]	[illegible]9.7	95[illegible]	1014.7	[illegible]41.[illegible]	[illegible]2.4	[illegible].1
17	300.2	284.5	264.8	270.7	517.0	[illegible]	1[illegible].4	[illegible]0.[illegible]	1012.7	[illegible]5.7	[illegible]	[illegible].3
18	299.5	284.0	264.3	270.8	517.[illegible]	[illegible]23.	1[illegible].1	[illegible]	1010.[illegible]	30.1	[illegible]3.5	543.[illegible]
19	298.6	283.7	263.8	270.7	517.[illegible]	[illegible]2[illegible]	[illegible]	[illegible]	1007.2	[illegible]4.[illegible]	[illegible]3.3	[illegible]41.[illegible]
20	298.0	283.3	263.3	270.7	517.4	[illegible]4.	[illegible].4	972.1	1003.0	1[illegible]	633.	[illegible].1
21	297.6	282.9	262.9	270.7	516.[illegible]	[illegible].1	[illegible].7	[illegible]	99[illegible].4	12.1	[illegible]29.0	[illegible]37.1
22	297.4	282.4	262.5	271.0	515.7	[illegible]0.[illegible]	40.[illegible]	[illegible]0.[illegible]	991.0	05.[illegible]	624.1	[illegible].1
23	297.1	280.8	262.3	271.8	514.7	[illegible]	44.	[illegible]3.	984.2	797.2	620.2	[illegible]33.1
24	296.7	279.2	262.5	273.1	513.3	642.[illegible]	4[illegible]	[illegible]	977.5	[illegible]	[illegible]15.9	531.1
25	296.3	277.6	263.3	276.8	512.0	649.[illegible]	4[illegible]	[illegible]	971.2	770.7	611.9	529.0
26	295.7	276.1	264.1	286.9	510.5	657.7	[illegible]1.[illegible]	9[illegible].1	964.9	772.9	607.9	[illegible]
27	295.2	274.8	264.3	292.8	508.9	[illegible].4	[illegible]	[illegible]	[illegible].1	7[illegible]	604.6	[illegible]24.7
28	294.8	274.3	264.3	296.1	507.0	[illegible]1.1	[illegible]0.0	[illegible]	[illegible]2.4	75[illegible].7	601.2	[illegible]22.7
29	294.2	273.7	264.2	298.4	505.3	[illegible]	1.4	100[illegible]	94[illegible].0	7[illegible].1	[illegible]	[illegible]20.[illegible]
30	293.8	273.1	264.2	300.2		[illegible]	[illegible]	1007.	[illegible].3	74[illegible]	[illegible]4.7	51[illegible].4
31	293.4		264.0	301.6		[illegible]		1010.4		73[illegible]	[illegible]1.[illegible]	
Monthly Change	-18.4	-20.3	-9.1	+37.6	+203.7	+196.9	+1[illegible]1.[illegible]	+14[illegible]	-[illegible]3.1	-200.	-147.[illegible]	-[illegible]3.1

E — Estimated NR — No Record

TABLE 372

DAILY MEAN GAGE HEIGHT*
GOOSE LAKE

In feet

Date	1958			1959								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.4						2.5			1.4		
2												0.3
3			2.3						1.9			
4					2.4	2.4						
5		2.2									0.8	
6								2.2				
7				2.1								
8	2.3 A						2.5			1.3		
9			2.3									
10			2.2						1.8			
11		2.2				2.4						
12		2.2			2.5 A						0.6	
13								2.1		1.2		
14				2.2								
15	2.3						2.3			1.2		
16	2.2											0.1
17			2.0			2.4			1.7			
18					2.4EA	2.4			1.7			
19		2.2						2.0			0.5	
20								2.1				
21		2.2 A		2.3						1.0		
22	2.3	2.1 A					2.3		1.7	1.1		
23							2.2		1.7			
24			[illegible].2				2.2		1.6			
25					2.4	2.5					0.4	
26		2.2			2.4							
27											0.4	
28				2.5				2.0				
29	2.3						2.3			0.9		
30												
31			2.2									0.0
Mean												

E — Adjusted NR — No Record
* Average of two or more daily staff gage readings.
A - Individual daily staff gage reading.

TABLE 37

DAILY MEAN GAGE HEIGHT*
GOOSE LAKE

In feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.
1	0.0 A								0.4			
2			-0.3 A									
3												
4		-0.2 A						0.6				
5												
6							0.6 A					
7							0.6 A					
8									0.4			
9					0.1 A	0.5 A						
10		-0.3 A										
11		-0.3 A						0.6				
12												
13							0.6 A					
14									0.3			
15			-0.4 A			0.5 A	0.6 A					
16									0.2			
17								0.6				
18	-0.1 A	-0.2 A						0.5				
19							0.6 A					
20												
21	-0.1 A						0.6					
22									0.1 A			
23						0.5 A						
24		-0.3 A										
25		-0.3 A		-0.3 A	0.2 A			0.5		-0.6 A		
26												
27							0.6					
28	-0.1 A											
29												
30						0.6 A						
31												

E — Estimated NR — No Record

* Average of two or more daily staff gage readings.
A - Individual daily staff gage reading.

TABLE 374

DAILY CONTENT
MILLERTON LAKE

In thousands of acre-feet

Date	1959			1960								
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	166.6	133.8	139.9	151.5	175.1	240.1	221.5	272.6	332.5	257.5	171.2	159.7
2	167.2	133.9	140.3	151.8	176.8	241.7	222.2	275.3	333.2	253.6	169.9	160.7
3	167.0	133.7	140.7	152.0	176.2	244.1	222.8	278.0	333.8	250.0	168.6	162.0
4	165.9	133.8	141.0	152.8	175.6	244.7	223.6	280.7	334.3	245.9	167.4	163.2
5	165.5	133.9	141.1	153.2	176.4	244.3	224.5	283.4	334.3	242.7	166.3	164.0
6	164.5	134.4	141.3	153.8	177.0	243.7	225.3	286.1	333.8	239.0	166.4	164.6
7	163.4	134.3	141.4	154.3	178.1	243.6	226.3	288.7	332.8	236.3	166.0	165.1
8	162.4	134.1	141.9	154.8	180.4	244.3	227.1	291.2	331.5	233.4	165.0	165.7
9	161.0	134.1	142.4	155.4	184.9	245.0	228.0	293.7	330.0	228.9	163.8	166.6
10	159.3	134.1	142.5	156.2	189.1	244.3	229.6	295.9	328.6	224.2	162.6	167.8
11	157.2	134.1	142.7	157.2	192.6	243.6	231.0	298.0	327.2	219.5	161.3	167.6
12	155.9	134.2	142.9	158.1	196.0	242.8	232.6	299.9	325.5	215.3	160.1	167.7
13	154.8	134.3	143.1	159.4	198.1	241.9	234.2	301.7	323.3	211.7	159.0	168.7
14	153.7	134.1	143.5	160.6	200.0	241.0	235.9	303.6	320.5	208.9	158.2	169.7
15	152.5	133.9	144.0	161.4	202.8	239.2	237.6	305.3	317.1	206.4	157.6	171.2
16	151.3	133.9	144.5	162.0	206.0	237.1	239.5	307.0	312.8	204.0	157.2	173.3
17	149.5	134.0	145.0	162.5	209.0	234.9	241.3	308.5	308.8	201.9	156.8	173.6
18	147.6	134.1	145.4	163.2	211.9	232.9	243.1	310.1	304.9	200.3	157.0	173.6
19	146.1	134.2	145.7	164.2	214.6	231.5	244.9	311.7	301.0	198.7	157.3	174.3
20	144.7	134.7	145.9	165.0	217.4	230.4	246.7	313.6	297.0	196.9	157.6	175.3
21	143.3	135.0	146.1	165.8	220.3	228.5	248.4	315.5	292.9	194.9	157.3	176.4
22	142.2	135.2	146.8	166.4	223.1	226.1	250.2	317.1	288.9	193.2	156.6	177.3
23	141.5	135.6	147.4	166.9	225.8	223.6	252.1	318.8	285.4	191.4	155.9	178.0
24	140.1	136.4	147.7	167.7	228.2	221.5	254.0	320.4	281.5	189.3	155.1	[illegible]
25	138.7	137.1	148.4	169.2	229.2	220.4	256.0	321.9	277.4	186.8	154.	[illegible]
26	137.6	137.4	148.7	170.1	231.0	219.3	258.4	323.4	273.0	184.0	154.8	179.0
27	136.3	137.8	149.0	171.0	233.4	218.5	261.1	325.2	269.0	181.1	155.8	180.6
28	135.5	138.1	149.6	172.3	236.1	218.9	263.8	326.9	265.6	178.3	156.6	182.2
29	135.3	138.4	150.1	173.3	239.0	219.7	266.8	328.6	262.8	175.[illegible]	157.3	182.7
30	134.8	139.0	150.6	174.0		220.2	269.7	330.0	260.0	173.7	158.0	182.7
31	134.3		151.1	174.7		220.8		331.4		172.4	158.8	
Monthly Change	-31.8	+4.7	+12.1	+23.6	+64.3	-18.2	+48.9	+61.7	-71.4	-87.6	-13.[illegible]	+23.9

E — Estimated NR — No Record

TABLE 375

DAILY CONTENT
SHASTA LAKE

In thousands of acre-feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2500.9	2419.1	2401.4	2427.4	2649.8	3213.2	3913.6	4056.2	4081.7	3815.6	3371.3	2949.9
2	2496.9	2417.0	2402.6	2427.6	2675.4	3218.0	3928.4	4056.8	4085.3	3799.2	3358.1	2941.6
3	2494.9	2416.4	2403.6	2427.4	2698.8	3228.2	3942.0	4057.9	4083.7	3783.1	3345.0	2932.7
4	2490.0	2415.0	2404.5	2428.7	2718.6	3239.2	3954.7	4056.5	4078.7	3766.1	3331.4	2922.0
5	2488.2	2414.3	2404.3	2428.7	2743.9	3287.9	3968.1	4055.6	4072.3	3752.9	3318.5	2912.2
6	2486.6	2412.9	2404.7	2430.1	2766.5	3347.7	3981.4	4054.8	4068.4	3740.3	3301.9	2904.9
7	2484.4	2409.6	2406.3	2432.1	2820.3	3420.8	3994.3	4054.8	4066.7	3726.9	3284.8	2898.9
8	2482.4	2409.0	2406.1	2435.0	2933.1	3467.7	4006.6	4053.2	4063.9	3714.6	3271.3	2893.6
9	2480.0	2407.6	2407.4	2437.7	2992.6	3505.8	4017.3	4051.2	4059.0	3697.3	3258.3	2886.8
10	2478.6	2407.1	2407.3	2438.1	3036.9	3537.5	4028.3	4049.3	4052.6	3680.1	3245.1	2877.1
11	2474.2	2408.0	2408.2	2445.4	3064.6	3563.9	4038.8	4046.5	4042.9	3665.9	3231.8	2867.9
12	2473.6	2408.4	2406.7	2449.9	3086.3	3589.4	4047.9	4046.0	4033.0	3653.9	3218.2	2861.9
13	2471.7	2408.4	2404.5	2451.7	3102.5	3610.4	4055.1	4046.3	4025.6	3642.1	3201.6	2858.4
14	2469.1	2406.7	2404.9	2455.3	3115.2	3629.7	4061.7	4045.1	4019.0	3629.9	3184.3	2851.7
15	2465.3	2405.5	2405.7	2457.0	3125.2	3647.7	4066.4	4041.6	4010.7	3617.6	3169.9	2845.8
16	2462.4	2405.9	2407.1	2456.2	3133.6	3664.3	4068.9	4038.5	4002.2	3601.4	3156.1	2839.4
17	2459.6	2405.9	2409.6	2455.6	3142.5	3679.1	4070.9	4034.1	3992.6	3584.8	3142.5	2831.6
18	2457.0	2405.7	2411.1	2456.6	3150.9	3693.4	4073.4	4030.8	3979.5	3571.6	3129.2	2822.0
19	2454.7	2406.3	2410.0	2458.8	3158.4	3707.0	4075.0	4028.0	3965.1	3558.8	3116.6	2816.2
20	2451.5	2406.3	2407.6	2460.4	3165.7	3720.9	4077.3	4023.6	3952.3	3546.1	3100.6	2812.3
21	2449.2	2404.1	2408.0	2467.5	3173.5	3734.5	4077.3	4015.9	3941.1	3533.5	3084.2	2805.3
22	2447.8	2402.8	2409.0	2476.0	3178.9	3747.4	4075.0	4007.7	3929.8	3518.6	3070.6	2799.7
23	2444.2	2403.6	2413.3	2478.6	3184.3	3760.6	4070.9	4011.3	3918.1	3502.2	3056.6	2794.3
24	2441.9	2403.9	2420.3	2484.8	3189.0	3773.3	4063.7	4023.1	3906.3	3484.7	3043.8	2787.0
25	2436.4	2403.6	2421.9	2501.5	3193.1	3786.0	4058.1	4037.1	3892.5	3471.7	3030.3	2780.3
26	2434.0	2401.6	2422.5	2523.2	3196.6	3798.4	4056.5	4049.3	3877.5	3458.5	3017.8	2775.4
27	2431.9	2401.0	2422.1	2546.4	3200.9	3816.4	4061.4	4059.5	3865.7	3445.3	3005.3	2771.5
28	2429.3	2400.4	2424.0	2571.5	3204.4	3832.4	4061.7	4065.9	3853.1	3432.1	2994.0	2765.9
29	2426.6	2400.0	2424.6	2585.8	3208.2	3846.7	4061.7	4070.3	3840.1	3418.0	2982.4	2761.2
30	2423.8	2400.8	2425.8	2598.9		3874.5	4058.4	4072.8	3828.4	3401.3	2970.9	2756.3
31	2421.7		2427.4	2607.6		3895.5		4078.9		3384.1	2959.9	
Monthly Change	-82.4	-20.9	+26.6	+180.2	+600.6	+687.3	+162.9	+20.5	-250.5	-444.3	-424.2	-203.6

E — Estimated NR — No Record

TABLE 376

DAILY MEAN DISCHARGE
TULARE LAKE - DAILY ELEVATION

In second feet

Date	1959			1960								
	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												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

Lake dry during 1959-60 water year.

E — Estimated NR — No Record

TABLE 377

DAILY GAGE HEIGHT*
WEST VALLEY RESERVOIR NEAR LIKELY

In feet

Date	1959			1960								
	Oct.	Nov	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2	-3.7											
3												
4												
5												
6												
7												
8							14.5					
9		-2.4				9.7						
10					4.9							
11												
12												
13												
14									18.2			
15			-0.6									
16												
17								18.8				
18												
19												
20												
21												
22									16.4			
23		-1.6				12.1						
24												
25				1.9	6.9			18.9				
26										13.2	3.3	
27							16.6					-1.8
28												
29										12.7		
30												
31												

E — Estimated NR — No Record
* Individual staff gage readings to nearest tenth.

TABLE 378

CHANGES TO PREVIOUSLY PUBLISHED WATER SUPERVISION REPORTS

Location of Error			Item	Change	
Page	Mile & Bank	Name		From	To
		Period 1929-1959,	Annual Reports		
		1929			
40	3.1R	Maxwell I.D.(Plant #6)	Diversions July	964	864
		1931			
82	0.4L	Pacific Highway Orchards	Total Diversion	165	166
		1937			
64	58.6	J. H. Abbey	Mile & Bank	58.6	56.8
		1939			
84	94.3R	Tuttle Land Co.	General Acreage Footnote (8)	(8) 418	(8) 458 Change to: "Includes 7 acres U.W. Brown lands and 20 acres W.D. DeJarnett lands."
87	154.8R	Provident I.D.	Footnote (3)		Add: "refers to 785 acres of rice."
		1942			
96	154.8R	Glenn-Colusa I.D.	General Acreage	30579	30649
		1943			
108	13.35R	Feather River Water Co. Diversion	Mile & Bank	13.35R	16.35R
148		Table 108 - Colusa Basin Drain to Sacramento River at Knights Landing	Means May June July Aug. Sept. Oct.		170 343 204 352 751 209
		1944			
T-9[illegible]-11	154.8R	Glenn-Colusa I.D.	Rice Acreage	36227	36223
T-98-11	154.8R	Provident Irrigation District	General Acreage Rice Acreage	1107 7583	836 7588
		1945			
64		Table 36	Footnote	Table 25	Table 34
103	18.0R	Harms Brothers	Footnote 19		Add:"at which time it was listed as Mile 18.95R
112	1.4N (1.75	E. H. Christensen (Hale Ranch)	Change	Plant Removed	No Diversion
114	14.5R	Yuba Consolidated Gold Fields	Mile & Bank Column	14.5R	14.[illegible]L
		1946			
106	67.5L	Newhall Land & Farming Co.	General acreage Footnote (5)	(6) 591 221 acres	(6) 551 321 acres
106	71.1L	Meridian Farms Water Co.	Footnote (8) Rice Acreage Bean Acreage	 573 301	 5[illegible]1 3[illegible]1
107	88.7L	W. O. DeJarnett & Mayfair Packing Co.	General Acreage	174	114
11[illegible]	Opp. 20.5R	Walter McGowan	Mile & Bank (Footnote (15)	Opp. 20.5R	Opp. 21.4R Change to (19) & Add to Footnotes - Plant located at SW corner Sec. 26, T19N, R2W
		1947			
97		Table 93 - Sacramento to Redding	Total General Acreage Total Rice Acreage	243180 247962	121590 123981
105	11.0R	Hallwood Irrigation District	Change name	Hallwood Irrigation District	Hallwood Irrigation Company

Location of Error			Item	Change	
Page	Mile & Bank	Name		From	To
		1948			
114	13.2R	Table 111 - Lower Butte Creek & Butte Slough (listed as 14.4R after 1949)	Monthly Diversions March April May June July August September October Total Diversion	 - - - - - - - - -	 500 300 650 650 700 600 600 400 4400
				Add Footnote: Acs. listed under Sacramento River, Mile 112.1L	
		1949			
140	11.0R	Hallwood Irrigation District	Change name	Hallwood Irrigation District	Hallwood Irrigation Company
		1950			
129		Table 152 - Verona to Knights Landing	Total Av.Cu.Ft./second	145	124
		1951			
171		Table 193 - Annual Monthly Comparative Diversions	April - 1951	254102	252680
			Seasonal Diversions - 1951	1974726	1973304
177		Table 204 - Wilkins Slough to Knights Landing	Seasonal Diversions - 1951	207624	206202
			Av.Cu.Ft./second	427	424
		1952			
154	32.3R	A. C. Rackerby	Diversion-October Total Diversion General Acreage	88 70 -	- 88 70
		1954			
146		Footnote (d)	Mile & Bank	34.1R	43.1R
176	186.6L	San Luis Canal Co.	Diversions - Dec.	6833	5833
176	219.8R	Columbia Canal Co.	Diversions - May	8099	8009
214		Table 221- San Joaquin River at Friant	March 15 Parts/million Na K	 0.8 4.8	 4.8 0.8
		1955			
95		Table 127 - San Joaquin River at White house	Mean Dec.	1757	1190
102		Table 142	March acre-feet	623	633
125	12.95R	Lewis Thornton	Mile & Bank Column	12.95R	12.95L
127	42.3R	El Dorado Ranch	Number & Size Pump Total Diversion	a 1-14" 1-16" b 1332	i 1-14" 1-16" j 1332
128	46.5L	J. H. Henle	Change name	J. H. Henle	J. R. Henle
128	61.5L	Richard Moore	Mile & Bank Column	61.5L	61.5R
136		Table 179	Av.Cu.Ft./second July - 1955	509	492
137	37.0L (0.1)	Federal Fish & Wildlife Service	Total Diversion General Acreage	m 140 k 130	q 140 p 130
140	0.5N	Table 184 - Sutter Bypass & Sacramento Slough	Footnote Table	add to table: (e) acreage combined with Mile 1.5N"	
159	4.2N (2.0)	Mounds Farms	Total Diversion General Acreage	c 1576 d 700	d 1576 c 700
160	5/5-24D	Barnes Ranch	Mile & Bank	5/5-24D	5/5-29D
162		Rancho El Peacadera	Change name	Rancho El Peacadera	Rancho El Peacadero

TABLE 37B

CHANGES TO PREVIOUSLY PUBLISHED WATER SUPERVISION REPORTS (Contd.)

Location of Error			Item	Change	
Page	Mile & Bank	Name		From	To
		1956			
25		Table 14 - Daily Content of Shasta Lake	Monthly Change in Storage Aug.	+300.3	-300.3
		1957			
137	141.5L	Table 209	Note h	Additional acre-feet diverted,etc.	Additional acre-ft. diverted: April 2680 May 6075 June 4461, July 2850 August 3066, Sept. 2807 October 924
			Note 1	This acreage also received an undetermined amount of water from Butte Creek	Delete
127	51.1R	R. D. 108 (Tyndall Mound)	Diversion May	9284	881
			July	9406	887
			Total Diversion	19965	3043
128	62.6R	Jake Locvich	Change name	Jake Locvich	Jake Locvich Estate
128		Table 206 - Knights Landing to Wilkins Slough	Totals May	37440	29030
			July	45500	36980
			Total	173100	156200
			Av.Cu.Ft./second May	609	472
			July	740	601
			Total	356	321
			Monthly Use in % of Total Apr.	7.9	8.8
			May	21.7	18.6
			June	17.0	18.8
			July	26.3	23.7
			Aug.	18.6	20.6
			Sept.	8.5	9.5
131	95.25L	Roger Wilber	Change name	Roger Wilber	Roger Wilbur
131	114.9R	Emerson Be. Estes	Change name	Emerson Be. Estes	Emerson B. Estes
132	161.45L	Jonathan Garat	No. & size Pump	1-6"	u 1-6"
				2-8"	v 2-8"
				1-14"	1-14"
133		Table 209 - Butte City to Red Bluff	Mile & Bank		Opp.
			24.2R (1.5W)	24.2R (1.5W)	61.2R (1.5)
			25.8L (2.5W)	25.8L (2.5W)	Opp. 62.8L (2.5)
			27.2R (0.1)	27.2R (0.1)	64.2R (0.1)
			27.2R (2.6W)	27.2R (2.6W)	Opp. 64.2R (2.6)
			Footnote (j)	November 6931	November 14382

Location of Error			Item	Change	
Page	Mile & Bank	Name		From	To
		1957 (Contd.)			
134	246.0R	Anderson-Cottonwood District	Total Diversion	151604	0151604
134		Table 210 - Sacramento River - Sacramento to Redding	Totals May	319900	311500
			July	394300	385800
			Total Diversion	1821300	1804400
			Av.Cu.Ft./second May	5202	5066
			July	6414	6275
			Total	3748	3713
			Monthly Use in % of Total April	11.0	11.1
			May	17.6	17.3
			June	18.7	18.9
			July	21.7	21.4
			Aug.	19.6	19.8
			Sept.	9.9	10.0
139	0.9E	Table 214, Mrs. Mamie M. Smith	Add name, 1-17" pump, & "no diversion" to table.		
140	0.5S	T. H. Richards	No. & Size Pump		Add 1-18"
140	8.0N (0.45)	O. O. Orick	No. & Size Pump	1.16"	1-16"
156	62.0L	Bernice Van Soster	Change name	Bernice Van Soster	Bernice Van Sosten
156	66.0R	Alexander Hilderbrand	Change name	Alexander Hilderbrand	Alexander Hildebrand
158	59.0	--"M" STREET BRIDGE--	Mile & Bank		Add 59.0
166	1.1	--HILLS FERRY BRIDGE--	Mile & Bank		Add 1.1
166	11.25R	M. Turner	No. & Size Pump		Add 1.2"
166	16.49	--RECORDING GAGE--	Mile & Bank	Add "16.49" & relocate in proper position	
185		Table 241 - West Cut at Five Points	Location	Minor Slough	Miner Slough
		1958			
144		Table 123 - San Joaquin River at Grayson	Daily Mean Discharge May 1	14900	9920
			2	15000	9700
			3	14800	9505
			4	14700	9455
			5	16100	9660
			6	15100	9920
		1959			
25		Table 20 - Average Unimpaired Runoff	Water Year 1958	116	166
206		Table 226 - Maximum Observed Salinity at Bay & Delta Salinity Stations	Water Year 1958	116	166

Note: All corrections found have been made in the general tables. However, only total corrections of 1,000 or more acres or acre-feet have been carried over to the summary tables.

PLATES

Clear Lake
Res.
Goose
Lake
Big S
N
O
M
U
D

PLATE 1

SURFACE WATER MEASUREMENT STATIONS

NORTH COASTAL AREA

1 Little Shasta River near Montague
2 Moffett Creek near Port 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

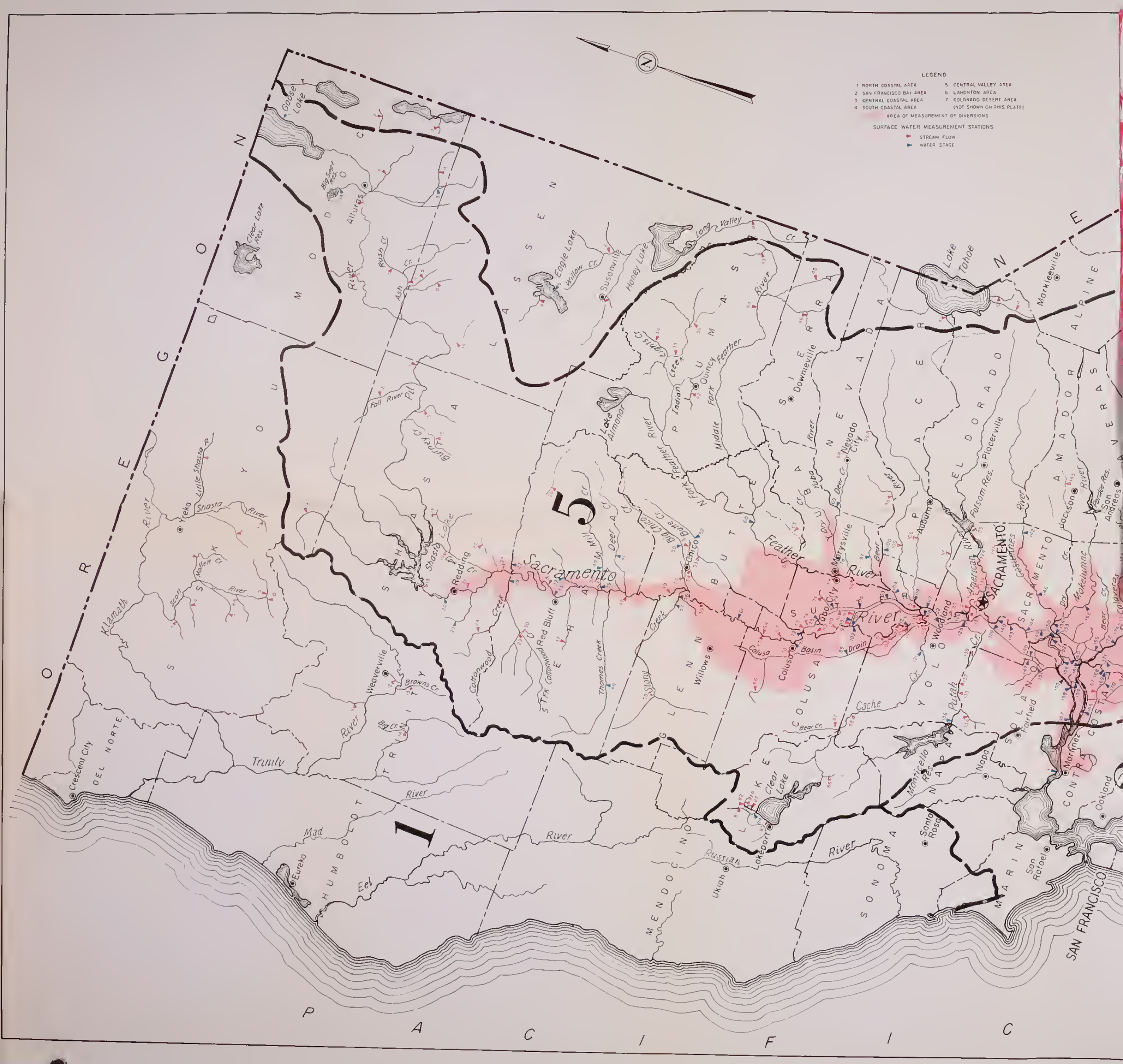
1 Goose Lake
1A Big Sage Reservoir near Alturas
2 Pit River below Alturas
3 Pine Creek near Alturas
4 South Fork Pit River near Jess Valley
5 West Valley Reservoir near Likely
6 Turner Creek near Canby
7 Rush Creek near Adin
8 Ash Creek at Adin
9 Butte Creek near Adin
10 Willow Creek near Adin
11 Pit River at Pittville
12 Fall River near Dana
13 Sacramento River near Mount Shasta
14 Horse Creek at Little Valley
15 Hat Creek near Cassel
16 Burney Creek near Burney
17 Little Cow Creek near Ingot
18 Shasta Lake
19 Salt Creek near Bella Vista
20 Sacramento River at Keswick
21 Sacramento River near Redding
22 Bear Creek near Millville
23 Clear Creek near Igo
24 North Fork Cottonwood Creek near Igo
25 Sacramento River at Balls Ferry
26 South Fork Battle Creek near Mineral
27 Battle Creek near Cottonwood
28 Cottonwood Creek near Cottonwood
29 Dry Fork S.F. Cottonwood Creek near Cottonwood
30 South Fork Cottonwood Creek near Cottonwood
31 Sacramento River near Red Bluff
32 Antelope Creek near Red Bluff
33 Sacramento River at Red Bluff
34 Lights Creek near Taylorsville
35 Indian Creek near Taylorsville
36 Red Clover Creek near Genesee
37 Red Bank Creek near Red Bluff
38 North Fork Mill Creek near Los Molinos
39 Mill Creek near Mouth
40 Mill Creek near Los Molinos
41 Deer Creek near Vina
42 Spanish Creek near Quincy
43 Little Last Chance Creek near Chilcoot
44 Middle Fork Feather River near Portola
45 Smithneck Creek near Loyalton
46 Miller Creek near Sattley
47 Sacramento River at Vina Bridge
48 Thomes Creek at Paskenta
49 Sacramento River at Hamilton City
50 Big Chico Creek near Chico
51 Little Chico Creek near Chico
52 Butte Creek near Chico
53 Butte Creek near Durham
54 Big Chico Creek at Chico
55 Lindo Channel near Chico
56 Stony Creek at St. John
57 Stony Creek near Hamilton City
58 Grindstone Creek near Elk Creek
59 Sacramento River at Ord Ferry
60 Feather River near Oroville
61 Sacramento River at Butte City
62 Feather River near Gridley
63 North Honcut Creek near Bangor
64 Moulton Weir Spill to Butte Basin
65 Sacramento River opposite Moulton Weir
66 Stone Corral Creek near Sites
67 Colusa Weir Spill to Butte Basin
68 Deer Creek near Nevada City
69 Yuba River at Englebright Dam
70 Colusa Basin Drain at Highway 20
71 Sacramento River at Colusa
72 Sacramento River at Butte Slough Outfall Gates
73 Butte Slough at Outfall Gates
74 Butte Slough at Mawson Bridge
75 Sutter Bypass at Long Bridge
76 Wadsworth Canal at Butte House Road
77 Feather River at Yuba City
78 Yuba River near Marysville
79 Sutter Bypass at State Pumping Plant
80 Sacramento River at Meridian
81 Middle Creek near Upper Lake
82 Clover Creek at Upper Lake
82A Clover Creek near Upper Lake
83 Clover Creek Bypass near Upper Lake
84 Scott Creek at Upper Lake
85 Scott Creek near Lakeport
86 Copsey Creek near Lower Lake
87 Bear Creek near Rumsey
88 Cache Creek above Rumsey
89 Colusa Basin Drain near College City
90 R. D. 70 Drainage to Sacramento River
91 R. D. 1660 Drainage to Sutter Bypass
92 Tisdale Weir Spill to Sutter Bypass
93 Tisdale Bypass at R. D. 1660 Pumping Plan
94 R. D. 1660 Drainage to Tisdale Bypass
95 Sutter Bypass at State Pumping Plant 2
96 Feather River below Shanghai Bend
97 Dry Creek near Wheatland
98 Wolf Creek near Wolf
99 Bear River near Colfax
100 Bear River near Wheatland
101 Sacramento River below Tisdale Weir
102 Sacramento River below Wilkins Slough
103 Sutter Bypass at State Pumping Plant 1
104 Feather River at Nicolaus
105 Coon Creek at Highway 99E
106 Auburn Ravine at Lincoln
107 Sacramento River above R. D. 108 Pumping Plant
108 R. D. 108 Drainage to Sacramento River
109 R. D. 787 Drainage to Sacramento River
110 R. D. 787 Drainage to Colusa Basin Drain
111 Colusa Basin Drain at Knights Landing
112 Sacramento River at Knights Landing
113 R. D. 1500 Drainage to Sacramento Slough
114 Natomas Cross Canal at Head
115 R. D. 1001 Drainage to Natomas Cross Canal
116 Linda Creek near Roseville
117 Sacramento River at Verona
118 Sacramento River at Fremont Weir, East End
118-119 Fremont Weir Spill to Yolo Bypass
119 Sacramento River at Fremont Weir, West End
120 Sacramento Slough at Sacramento River
121 Cache Creek at Yolo
122 Yolo Bypass near Woodland
123 Folsom Reservoir
124 American River at Fair Oaks
125 R. D. 1000 Drainage to Sacramento River (Pritchard Lake)
126 Sacramento River opposite Sacramento Weir
127 R. D. 1000 Drainage to Sacramento River (Second Bannon Slough)
128 Yolo Bypass above Sacramento Bypass
126-129 Sacramento Weir Spill to Yolo Bypass
129 Sacramento River at Sacramento Weir
130 Sacramento River at Sacramento
131 Arden Area Drainage to American River (Pumping Plant #1)
132 Arden Area Drainage to American River (Pumping Plant #2)
133 American River at Sacramento
134 Pleasants Creek near Winters
135 Putah Creek below Winters
136 Putah Creek near Winters
137 Putah Creek above Davis
138 South Fork Putah Creek near Davis
139 Yolo Bypass at Lisbon
140 Sacramento River near Freeport
141 Deer Creek near Sloughhouse
142 Cosumnes River at Michigan Bar
143 Sacramento River at Clarksburg
144 Sacramento River at Snodgrass Slough
145 Sutter Creek near Sutter Creek
146 Cosumnes River at McConnell
147 Yolo Bypass at Liberty Island
148 Miner Slough at Five Points
149 Snodgrass Slough at Twin Cities Road Bridge
150 Delta Cross Channel at Walnut Grove
151 Yolo Bypass at Lindsey Slough
152 Sacramento River at Walnut Grove
153 South Fork Mokelumne River at New Hope Bridge
154 Mokelumne River near Thornton
155 Sacramento River at Rio Vista
156 Sacramento River at Isleton
157 Sacramento River at Collinsville
158 Threemile Slough at Sacramento River
159 Threemile Slough at San Joaquin River
160 Georgiana Slough at Mokelumne River
161 San Joaquin River at San Andreas Landing
162 Mokelumne River at Woodbridge
163 Calaveras River at Jenny Lind
164 Calaveras River at Bellota
165 San Joaquin River at Venice Island
166 San Joaquin River at Antioch
167 Contra Costa Canal near Oakley
168 Old River at Holland Tract
169 Old River near Rock Slough
170 Rock Slough at Contra Costa Canal Intake
171 Middle River at Bacon Island
172 San Joaquin River at Rindge Pump
173 Stockton Ship Channel at Burns Cutoff
174 McLeod Lake at Stockton
175 Stockton Diverting Canal at Stockton
176 Calaveras River near Stockton
177 Mormon Slough at Bellota
178 Duck Creek Diversion near Farmington
179 Littlejohns Creek at Farmington
180 Duck Creek near Stockton
181 French Camp Slough near French Camp
182 South San Joaquin I. D. Main Drain at French Camp
183 San Joaquin River at Brandt Bridge
184 Old River at Mansion House
185 Middle River at Borden Highway
186 Old River at Clifton Court Ferry
187 Delta Mendota Canal near Tracy
188 Grant Line Canal at Tracy Road Bridge
189 Old River near Tracy Road Bridge
190 Middle River at Mowry Bridge
191 Tom Paine Slough above Mouth
192 San Joaquin River at Mossdale Bridge
193 Stanislaus River at Orange Blossom Bridge
194 Stanislaus River at Riverbank
195 South San Joaquin I. D. Drain 11 near Manteca
196 Stanislaus River near Mouth
197 San Joaquin River near Vernalis
198 San Joaquin River at Maze Road Bridge
199 Stanislaus River at Koetitz Ranch
200 Stanislaus River at Ripon
201 Dry Creek near Modesto
202 Tuolumne River at Hickman Bridge
203 Tuolumne River at Roberts Ferry Bridge
204 Tuolumne River at La Grange Bridge
205 Maxwell Creek at Coulterville
206 North Fork Merced River near Coulterville
207 Tuolumne River at Modesto
208 Tuolumne River at Tuolumne City
209 San Joaquin River at Hetch Hetchy Aqueduct Crossing
210 San Joaquin River at West Stanislaus Irrigation District Intake
211 Burkhardt Drain near Grayson
212 San Joaquin River at Grayson
213 Westley Wasteway near Grayson
214 Del Puerto Creek near Grayson
215 San Joaquin River at Patterson Bridge
216 San Joaquin River at Crows Landing Bridge
217 Orestimba Creek near Crows Landing
218 San Joaquin River near Newman
219 Newman Wasteway near Newman
220 San Joaquin River at Fremont Ford Bridge
221 Merced River at Cressey
222 Merced River below Snelling
223 Merced River near Livingston
224 Burns Creek below Burns Reservoir
225 Bear Creek near Cathay
226 Burns Creek at Hornitos
227 West Fork Chowchilla River near Mariposa
228 Big Creek Diversion near Fish Camp
229 Miami Creek near Oakhurst
230 Middle Fork Chowchilla River near Nipinnawasee
231 East Fork Chowchilla River near Ahwahnee
232 Striped Rock Creek near Raymond
233 Mariposa Creek near Cathay
234 Bear Creek below Bear Reservoir
235 Owens Creek below Owens Reservoir
236 Mariposa Creek below Mariposa Reservoir
237 San Joaquin River near Dos Palos
238 Millerton Lake
239 Panoche Drain near Dos Palos
239A Helm Ranch Drain near Firebaugh
240 Drain at Head of Firebaugh Wasteway near Firebaugh
241 San Joaquin River near Mendota
242 San Joaquin River at Whitehouse
243 South Fork Kings River below Empire Weir 2
244 Cross Creek below Lakeland Canal 2
245 Tulare Lake
246 Elk Bayou near Tulare
247 Tule River below Porterville
248 Friant-Kern Canal Delivery to Tule River
249 Friant-Kern Canal Delivery to Porter Slough
250 Porter Slough near Porterville
251 Porter Slough at Porterville
252 North Fork Tule River at Springville
253 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

SAN FRANCISCO BAY AREA

1 Suisun Bay at Benicia Arsenal
2 Arroyo De Los Coches near Milpitas


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
Goose Lake
Clear Lake Res.
Big Sage Res.
Alturas
Eagle Lake
Susanville
Honey Lake
Long Valley
Lake Tahoe
Markleeville
Downieville
Nevada City
Placerville
Folsom Res.
Auburn
Jackson
Lake Almanor
Quincy
Yreka
Redding
Shasta Lake
Red Bluff
Chico
Marysville
Yuba City
Woodland
SACRAMENTO
Willows
Colusa
Weaverville
Crescent City
Eureka
Ukiah
Lakeport
Clear Lake
Monticello Res.
Napa
Santa Rosa
Fairfield
Martinez
Oakland
San Rafael
Pardee Res.
San Andreas
Sacramento
Feather River
Yuba River
American River
Mokelumne
Cosumnes
Cache
Putah
Colusa Basin Drain
Trinity
Mad
Eel
Klamath
Scott
Pit
Fall River
Pit
Burney Cr.
Cottonwood Creek
Thomes Creek
Stony Creek
Big Chico Cr.
Butte Cr.
Deer Cr.
Mill Cr.
Indian Creek
Middle Fork Feather
N Fork Feather
Yuba
Deer Cr.
Bear Cr.
Dry Cr.
Bear Cr.
Browns Cr.
Big Cr.
Rush Cr.
Ash Cr.
Willow Cr.
Little Shasta R.
Shasta River
Nelson Cr.
Cottonwood Cr.
S Fk Cottonwood
Russian
Bear Cr.
Cache Cr.
Putah Cr.
Cosumnes
Mokelumne
Calaveras
San Andreas
Pardee Res.
Folsom Res.
Monticello Res.
Clear Lake
Lake Almanor
Lake Tahoe
SHASTA
TEHAMA
GLENN
BUTTE
PLUMAS
SIERRA
NEVADA
PLACER
EL DORADO
AMADOR
ALPINE
CALAVERAS
TUOLUMNE
MARIPOSA
MADERA
FRESNO
KINGS
TULARE
KERN
SAN BERNARDINO
INYO
MONO
SISKIYOU
MODOC
LASSEN
SIERRA
YOLO
SACRAMENTO
SOLANO
CONTRA COSTA
NAPA
SONOMA
MARIN
COLUSA
LAKE
MENDOCINO
HUMBOLDT
TRINITY
DEL NORTE
SAN FRANCISCO
PACIFIC
OREGON
5
1

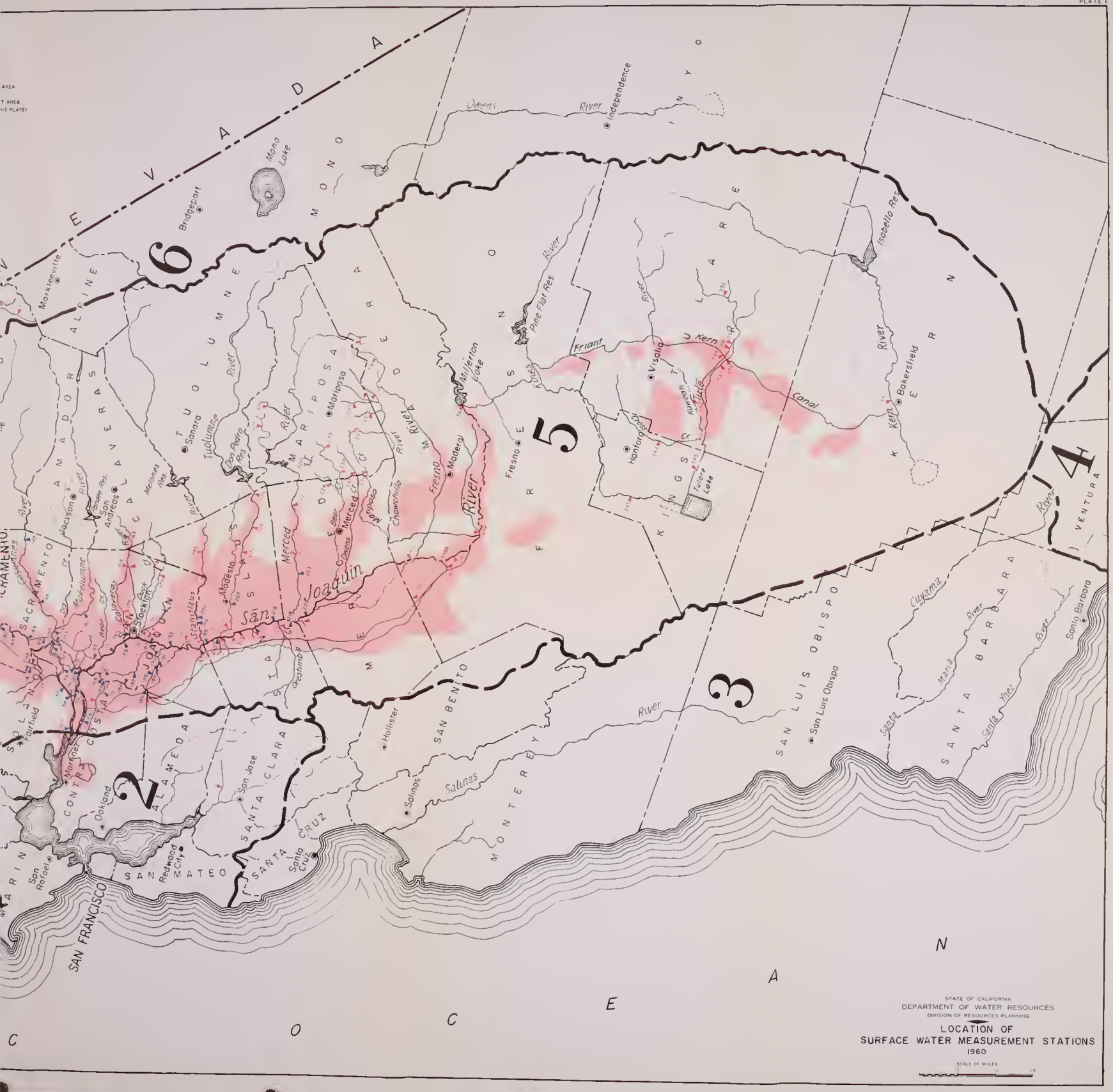

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
LOCATION OF
SURFACE WATER MEASUREMENT STATIONS
1960
SCALE OF MILES
NEVADA
PACIFIC OCEAN
6
5
4
3
2
Bridgeport
Mono Lake
Markleeville
Independence
Owens River
Isabella Res
Pine Flat Res
Millerton Lake
Friant
Visalia
Kern
Tulare Lake
Hanford
Bakersfield
Kern River
Fresno River
Madera
Mariposa
Merced
Stockton
San Andreas
Jackson
Sonora
Tuolumne River
Don Pedro Res
Modesto
San Joaquin
Stanislaus
Chowchilla
Fresno
Hollister
Salinas
San Jose
Oakland
Martinez
Fairfield
San Rafael
Redwood City
Santa Cruz
San Luis Obispo
Santa Barbara
Cuyama
Santa Maria
Santa Ynez
Ventura
Tehachapi
Kaweah
Kings
Merced
Mokelumne
Calaveras
Cosumnes
Stanislaus
Tuolumne
Mariposa
Madera
Fresno
Tulare
Kern
Inyo
Mono
Alpine
Amador
Calaveras
Sacramento
San Joaquin
Solano
Contra Costa
Alameda
Santa Clara
San Mateo
Santa Cruz
San Benito
Monterey
San Luis Obispo
Santa Barbara
Ventura
San Francisco
Marin

PLATE 2

SALINITY OBSERVATION STATIONS

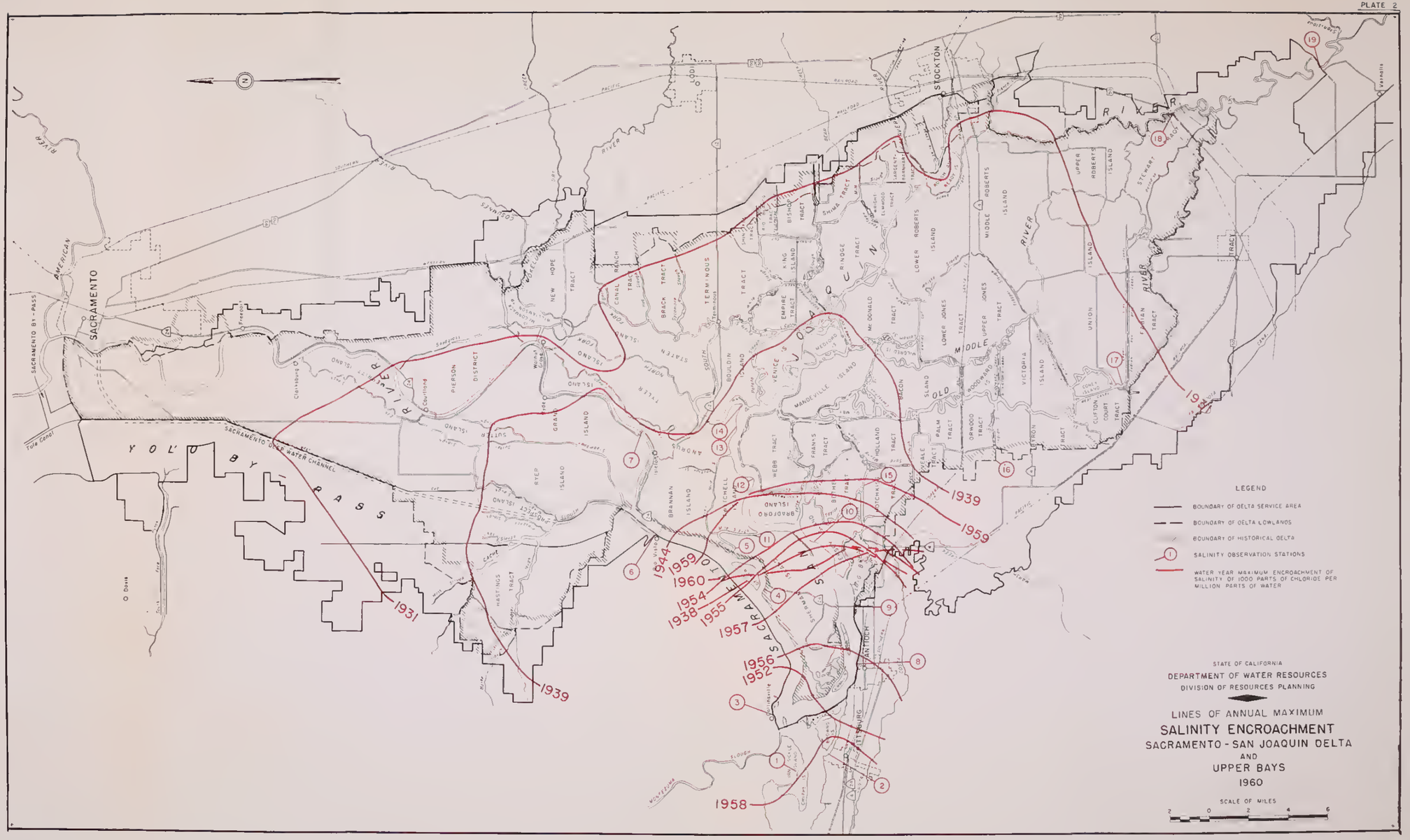
Stations shown on map:

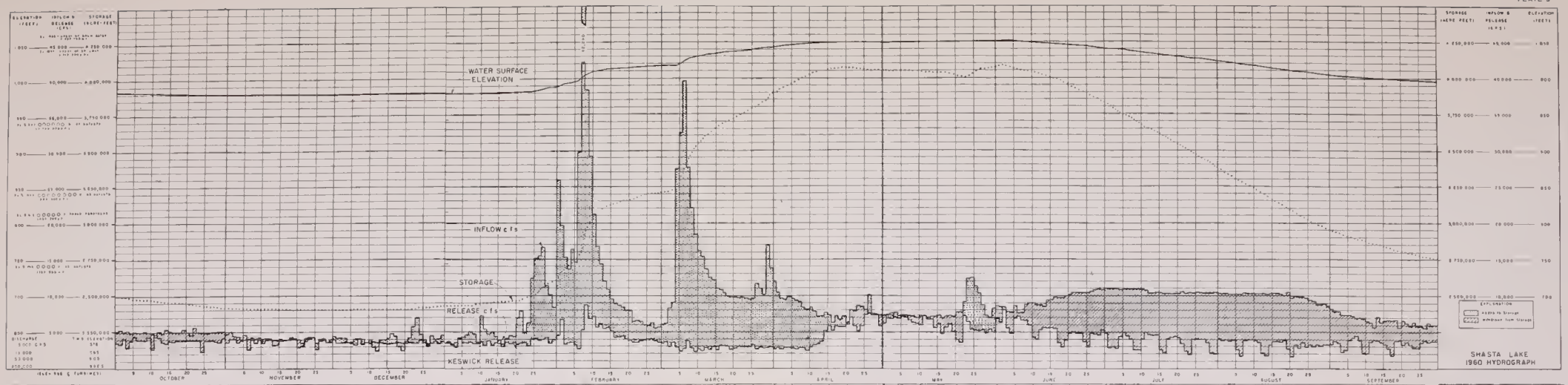
1 Spoonbill Creek
2 Pittsburg
3 Collinsville
4 Emmaton
5 Threemile Slough Bridge
6 Rio Vista Bridge
7 Isleton Bridge
8 Antioch
9 Antioch Bridge
10 Jersey Island
11 Threemile Slough
12 Oulton Point
13 San Andreas Landing
14 Opposite Central Landing
15 Dutch Slough
16 East Contra Costa Irrigation District
17 Clifton Court Ferry
18 Mossdale Bridge
19 Vernalis

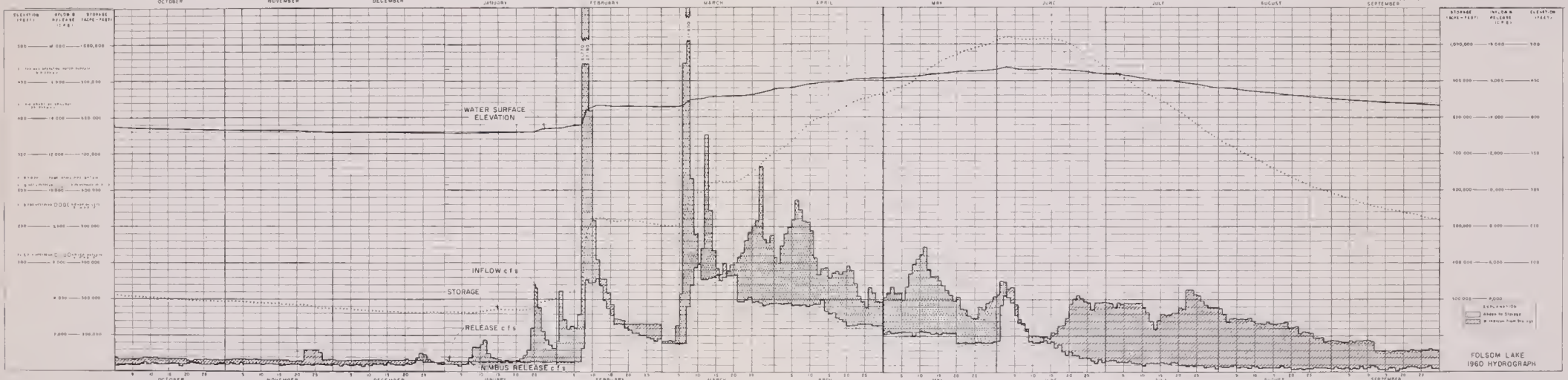
Stations off map:

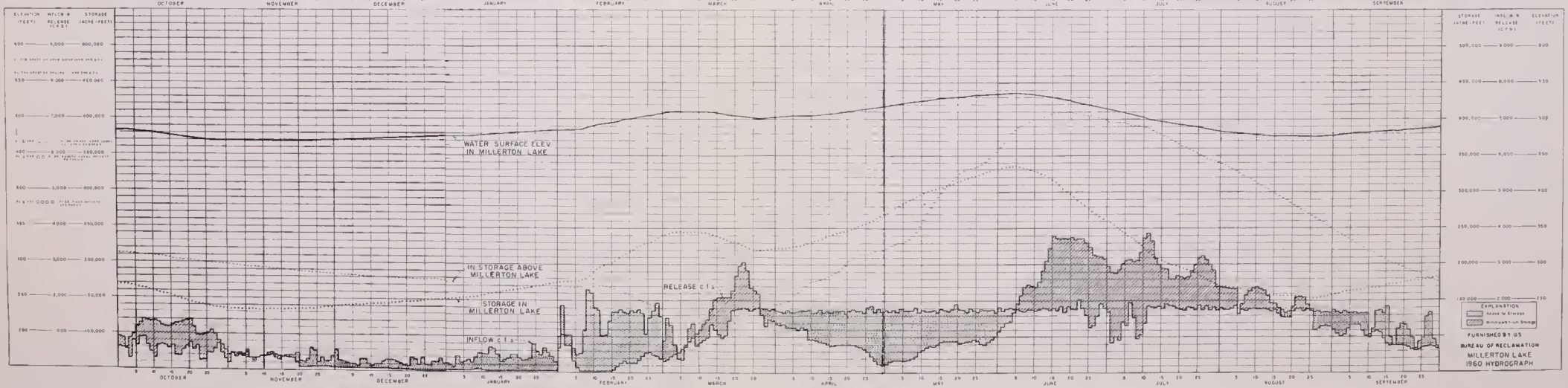
Point Pinole
Crockett
Benicia
Martinez
West Suisun
Innisfail Ferry
Port Chicago

Note: For description of stations see Table 21.




WATER SURFACE ELEVATION
INFLOW cfs
STORAGE
RELEASE cfs
KESWICK RELEASE
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
EXPLANATION
SHASTA LAKE
1960 HYDROGRAPH


WATER SURFACE ELEVATION
INFLOW cfs
STORAGE
RELEASE cfs
NIMBUS RELEASE cfs
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
EXPLANATION
FOLSOM LAKE
1960 HYDROGRAPH


WATER SURFACE ELEV IN MILLERTON LAKE
IN STORAGE ABOVE MILLERTON LAKE
STORAGE IN MILLERTON LAKE
INFLOW cfs
RELEASE cfs
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
EXPLANATION
FURNISHED BY U.S.
BUREAU OF RECLAMATION
MILLERTON LAKE
1960 HYDROGRAPH

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