STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING

BULLETIN NO. 23-56

SURFACE WATER FLOW FOR 1956

EDMUND G. BROWN
Governor

HARVEY O. BANKS
Director of Water Resources

January, 1959

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GAGING STATION - SACRAMENTO RIVER AT ORD FERRY

This stream gaging station, located about 13 miles south-west of Chico, is an important part of the Sacramento River flood control system. The station contains a recorder which makes a continuous record of the water surface elevation (gage height). The gage height is related to the flow by means of flow measurements. At times of high water, observations of the gage height at this station along with similar observations at other stations are used to determine flood warnings, reservoir releases, and weir settings. Early in 1958 the Ord Ferry station was included in a new improved radio telemetering system which permits automatic interrogation from the Sacramento Flood Control Center to obtain the gage height at any time.

The Sacramento River at Ord Ferry Gaging Station has been operated by the State of California continuously since 1944. The station was also operated continuously from 1921 to 1927 and during the flood seasons only from 1937 to 1944. The maximum recorded gage height was 121.7 feet on February 28, 1940 with an estimated flow of 370,000 cubic feet per second.

The photograph was taken on February 20, 1958 with a gage height of 120 feet and a flow of approximately 250,000 cubic feet per second. The radio antenna mast is visible in the center of the photograph.

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ALPHABETICAL INDEX TO TABLES (CONTINUED)

X

HARVEY O. BANKS
DIRECTOR

EDMUND G. BROWN
GOVERNOR

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STATE OF CALIFORNIA

Department of Water Resources

SACRAMENTO

June 16, 1959

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

Gentlemen:

I have the honor to transmit herewith the "Report of Surface Water Flow" for 1956. This report contains the thirty-second annual compilation of basic data gathered under the historic Sacramento-San Joaquin Water Supervision program and additional information obtained under newer programs. The name of the report has been changed from "Report of Sacramento-San Joaquin Water Supervision" to reflect the more comprehensive coverage.

The report contains basic data on water flow, diversions, utilization, and salinity. Although the majority of the material pertains to the Sacramento and San Joaquin Rivers and their tributaries, the data is presented on a regional basis in accordance with the subdivision of the State into hydrographic areas.

Very truly yours,

Harvey O. Banks

Harvey O. Banks
Director

FOREWORD

This report gathers into one volume hydrographic data involving many measurements and observations with the primary purpose of making this basic data available to those who have need for it. The report contains only a limited amount of interpretation and conclusion.

The beginning and end of the reporting periods shown in prior reports have varied, though limited to twelve months duration. Calendar, water, diversion, and irrigation periods are some of the more widely used variations. This new form of report, within imposed limits, references all data to the 1956 water year (October 1, 1955, through September 30, 1956). The major exception to this rule is water diversion data, reported for the year ending October 31, 1956. To provide continuity with previous reports, stream flow data for October through December, 1955, and diversions for November and December, 1955, are repeated in this volume.

ACKNOWLEDGMENT

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

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INTRODUCTION

General

This report of Surface Water Flows, because of its greater area of coverage, enhances and extends the prior reports of Sacramento-San Joaquin Water Supervision, published annually for the period 1924 to 1955. The current data for the area covered in that series of reports are included in the section of this report entitled Central Valley Area.

Records are presented in this volume for three of the seven major hydrographic areas of the State. These are:

North Coastal Area
Central Valley Area
Lahontan Area

It is anticipated that as the area of stream gaging activity is expanded, records for other hydrographic areas will be included.

The tabular data presented herein are shown under four general categories as follow:

1. Tables of daily mean stream flow.
2. Tables of diversions and acreages irrigated.
3. Summary tables of items 1 and 2.
4. Tables of supplemental information including precipitation, unimpaired runoff, salinity, and water analyses.

The five plates included in this report show the following information:

Plate 1 shows the seven major hydrographic areas of the State, the location of stream gaging stations and areas of measurement of diversions.

Plate 2 shows the location of stream gaging stations in Sacramento and northern San Joaquin Valleys.

Plate 3 shows the location of stream gaging stations in the San Joaquin Valley.

Plate 4 shows lines of maximum annual salinity encroachment in the Sacramento-San Joaquin Delta and Upper Bays.

Plate 5 shows hydrographs of reservoir operation for Shasta Lake, Folsom Reservoir, and Millerton Lake.

Programs

The information on stream flow, diversion and use of water, and salinity observations, as given in this report, is obtained in accordance with several programs of the Department of Water Resources and with cooperative agreements with other agencies.

Sacramento-San Joaquin Water Supervision Program. This program, initiated in 1924, is carried on to gather basic data relating to water supply and water utilization in the Sacramento and San Joaquin Valleys for the purpose of developing coordination between the supply and the several and varied uses of the water. Authorization for this program is provided by Sections 225 and 226 of the California Water Code.

Sacramento River Trial Distribution Program. This program, initiated in 1954, is aimed toward reaching a negotiated settlement between the local water users along the Sacramento River and in the Delta and the Bureau of Reclamation regarding their respective entitlements to the use of water and regarding provisions for a supplemental water supply.

Feather River Trial Distribution Program. The objective of this program, which has been in progress since 1956, is to reach an agreement between local water users along the Peather River and the State of California regarding their respective entitlements to the use

of water of this river and regarding provisions for supplemental water supplies from the Feather River Project.

Inventory of Water Resources and Requirements Program. This is an investigation authorized by Chapter 61, Statutes of 1956, California Legislature, to determine the available quantity, present usage, and ultimate requirements of water in each watershed of the State.

Cooperative Agreements with other Agencies. Cooperative agreements to provide for the collection of data for certain stream flow stations, points of diversion, and salinity sampling in the Delta were entered into with the U. S. Bureau of Reclamation, the U. S. Geological Survey, the U. S. Corps of Engineers. and Stockton and East San Joaquin Water Conservation District.

Objectives

The primary objective of the Department of Water Resources in publishing this report is to bring together in a permanent and useable form all of the hydrographic data gathered under the provisions of the several programs and cooperative agreements previously listed.

The need for hydrographic data is basic to (1) the formulation of any water development plan, or to (2) the determination of an agreement where water rights are concerned. The first named is primarily the reason for gathering hydrographic data in the North Coastal and Lahontan Areas. In the Central Valley Area data has been gathered primarily for the second reason, looking toward the development of a definite schedule of relative water rights.

Scope

The work of the Surface Water Program is concerned with gathering basic data relating to water supply and utilization.

The field activities include (1) construction and maintenance of stream gaging stations, (2) measurements of flows in streams, and return flows to natural channels either through drainage pumps or by gravity drains, and (3) determination of amounts of water diverted, and use of water by individual user.

The office work is concerned with computation and assembly of data for presentation in report form. The computation of stream flow, drainage, and accretions involves the conversion of the daily gage records to quantities of daily flows in second-feet and monthly runoffs in acre-feet. The amounts of water diverted by the users are determined by calibrating suitable measuring devices at all points of gravity diversion, and by rating each diversion pumping plant.

Definition of Terms

A list of definitions of hydrologic terms as used herein follows:

Second-foot, or cubic foot per second is the unit rate of flow of water which will pass through a cross-sectional area of one aquare foot with an average velocity of one foot per second.

Acre-foot is the quantity of water required to cover one acre to a depth of one foot and is equivalent to 43,560 cubic feet or 325,851 gallons.

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

Unimpaired flow is the flow at a point that would occur naturally in a stream if there were: (1) no upstream controls due to dams and reservoirs; (2) no artificial diversions

or accretions; and (3) no artificial changes in ground water aspects. Unimpaired flow is computed from measured runoff by allowing for man-made changes in the natural conditions.

Water-year is the period from October 1 of any year to September 30 of the subsequent year.

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

EXPLANATION OF TABULAR DATA

The tabular data presented herein is divided into the general categories of daily mean stream flow, monthly diversions, acreages irrigated, summaries of the foregoing, and supplemental information.

Stream Flow Tables

General. Stream flow station names are determined from the name of the nearest post office (Feather River at Yuba City), or a well known landmark (San Joaquin River at Fremont Ford Bridge). In order to more closely locate the station a brief narrative description is given in the footnote for each station. The mile point number represents distance above the mouth of the stream for all streams except the Sacramento River. For that stream the zero point is at the Tower Bridge in Sacramento. The letters L and R in conjunction with the mileage number represent left bank and right bank respectively, facing downstream. Additional information given in the footnotes includes the size of the drainage area, period of record, cooperative station operation, or other significant items pertaining to the station.

The stream flow tables are arranged in downstream order to facilitate the determination of the coverage of a given drainage area. Also, all stations on a tributary entering above a main stem station are listed before that station. Stations on a tributary entering between two main stem stations are listed between those stations. In order to locate a specific station, reference should be made to the Alphabetical Index of Stations or to Plates 1, 2, & 3, showing the location of gaging stations. Included with the tables of stream flow are tables showing reservoir contents in acre-feet.

Content. The stream flow tables show daily mean flow in second-feet and monthly mean flow in second-feet and acre-feet. At the bottom of the table are given the peak instantaneous discharges in second-feet with dates of occurrence for the year and of record, and the total runoff in acre-feet for the water year and calendar year ending December 31, 1955.

Diversion and Acreages Irrigated Tables

General. These tables primarily show the water diverted for agricultural purposes and the acreage irrigated thereby. The small amounts diverted in some reaches for municipal and industrial use are also reported. Because the major use of water is for agriculture the tables are set up to show the diversions during the main growing season of March through October. Any use of water outside this period is shown by a footnote to the table. The tables for the San Joaquin and Tule Rivers are an exception to the foregoing. These tables are arranged to cover a twelve month period.

Content. The information in the diversion tables includes the name of each diverter, the location of the point of diversion indicated in miles from the mouth of the stream (except Sacramento River, measured from Tower Bridge) and the amount of water diverted monthly and

for the year. The method of diversion, whether by gravity or pump is indicated. The size of the pump, given in inches, refers to the inside diameter of the discharge flange.

The many types of crops grown have varied rates of water application. However, because rice usually requires about twice as much water as the average applied to the other crops, the irrigated acreage is divided into two categories of crops, general and rice.

Each table shows, for a stream, the total water diverted monthly, and for the year. For the larger streams total diversions are shown by reaches. The monthly use in per cent of seasonal is the relation of the total for any month to the total for the months tabulated.

Correlative and Summary Tables

General. The tabular comparisons showing the occurrences and uses of water result in the production of distinctive types of information. The uses of this data are many. In California where water rights, various uses, navigation and conservation development vie for priority and are interrelated, certain summary and correlative tables are in order. These tables are essential in order to provide ready reference.

Supply and Utilization. Inherent in the consideration of water conditions is the relationship between supply and utilization. This is particularly true during years of subnormal runoff when the demand equals or exceeds the supply. For this reason correlative tables (10, 11, and 12) bringing together supply and demand are presented for the Sacramento and San Joaquin Rivers and tributaries and Tule River. Along with the quantity of stream flow, flow from drains, and diversions, quantities of unmeasured accretions resulting from such factors as release from or retention in bank storage, evaporation, return flow, unmeasured minor tributaries, and other related factors are shown.

These tables show quantities which vary greatly in magnitude. Therefore, for ease of use, all quantities are shown to the nearest five hundred acre-feet. If a closer analysis of a stream or reach is needed reference should be made to the individual parent tables, numbers for which are shown in the column preceding the monthly figures.

Delta Service Area. The complexity of waterways, tidal action, seepage, and methods of agricultural use (a combination of subirrigation and surface flows), results in hydrologic problems which preclude normal methods of measuring supply and demand. This area is divided into uplands and lowlands (boundaries shown on Plate 4).

The correlation of water supply and demand for the Delta Service Area is shown in Table 9. The water supply available to the area is determined from thirteen gaging stations, listed under "Water Supply" in the table, and from rainfall on the area. "Water Utilization" in the same table includes agricultural use within the area, exportations through the Delta-Mendota and Contra Costa Canals, and diversions by the City of Vallejo. The agricultural use in the uplands is determined by measurement; however, in the lowlands, because it cannot be measured directly, agricultural use is determined by unit consumptive crop usages multiplied by crop acreages. Unit consumptive use factors were derived from early experimental work in the Delta and modified by recent experimental work at Davis by the University of California and California Extension Service. Crop acreages are determined by periodic land use surveys, the most recent of which was made in 1955.

Utilization summations. Summaries of diversions by streams for the last 10-year period are given in Tables 183 through 193. The data are given for each month in acre-feet, cubic feet per second and the monthly percentage in relation to the seasonal total. Table 182 correlates the data in the foregoing eleven tables by showing the comparison of the average

monthly percentage use for each stream for the 10-year period. Table 194 summarizes, for the Sacramento River above Sacramento, the acreages irrigated as well as diversions for the last 10 years.

Supplemental Tables

General. The supplemental tables include information directly related to the surface water program of the Department and are presented for general information purposes. The types of information given are precipitation, runoff comparisons, tide gage locations, salinity observations, and water quality.

Precipitation. Table 6 presents the monthly precipitation for the water year for several stations in the Sacramento and San Joaquin Valleys from Shasta Dam to Fresno. The stations are not necessarily representative of the rainfall in any definite watershed or area, but give a general indication of the rainfall on the Central Valley floor.

Runoff Comparisons. The relative magnitude of runoff occurring on any one stream for a given year is determined by comparing the natural or unimpaired runoff of that year with the mean runoff of the stream over a long period of years. For this report, runoff comparisons are based on percentages of average determined for the 50-year period October 1905 through September 1955. Table 8 shows the unimpaired average annual flows for major streams of the Central Valley Area, and the annual runoff in percentage of the 50-year average for each year from 1920 to 1956. Table 7 gives the monthly flow as a percentage of the 50-year average for the same streams.

Tide Gages. Table 231 lists the locations of 34 recording tide gages in the Delta Channels. Locations are also shown on Plate 4.

Salinity Observations. The ebb and flow of saline waters in the Delta Area has been of concern for many years. Table 232 lists the salinity sampling stations. The stations are listed commencing with the Golden Gate at zero miles and proceeding through the Bay system to the Delta Area. The samples, where possible, are taken one and a half hours after high tide at four-day intervals. The observed concentrations of salinity are given in Table 234. The geographical location of these stations is given on Plate 4, together with the maximum line of salinity encroachment (the line of 1000 parts of chloride per 1,000,000 parts of water) for the current water year and including other years of historical interest.

Water Quality. To augment the published information on quality of water, Table 235, which gives partial analyses, is included. Bulletin No. 65, prepared by this Department, published information of water quality throughout the State for the year 1956. That bulletin did not include analyses of water in and adjacent to the Delta Service Area furnished by the U. S. Bureau of Reclamation and this data is therefore included in this report.

Tabular Information

Tables of stream flow, diversions and acreages irrigated, summaries of the detailed data, and supplemental information for the 1956 water year will be found in the applicable hydrographic areas in this report.

NORTH COASTAL AREA

NORTH COASTAL AREA

Introduction

Reporting of stream flow data for the North Coastal Area is initiated with the current edition of this bulletin series. Numerically the information relating to the North Coastal Area is meager, however, the volumne and importance of the data will increase with the expanding search for knowledge as to the occurrence and use of water in an area of the State having a high water development potential.

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 five gaging stations, which represents the information available for the 1956 water year in the North Coastal Area.

TABLE 1

SOUTH FORK SCOTT RIVER NEAR CALLAHAN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept.
1	5.4	12	41	91			NR	409	521	169	24	5.5
2	5.9	11	35	82			NR	436	462	156	22	5.0
3	6.1	11	31	74			NR	499	487	144	24	4.6
4	6.4	14	27	78			NR	578	474	137	26	4.6
5	7.5	13	31	86			NR	526	360	130	26	4.6
6	7.5	11	56	101			NR	449	320	123	26	4.2
7	6.4	11	44	103			NR	405	314	118	25	3.8
8	5.9	9.1	40	93			NR	394	331	116	23	3.8
9	6.9	9.1	40	89			NR	363	367	116	22	4.2
10	22	10	41	89			NR	371	398	112	20	5.0
11	13	11	78	89			371	331	360	105	19	5.0
12	11	10	75	NR	N	N	320	310	360	99	18	5.0
13	10	10	63	NR	O	O	314	292	356	91	17	5.0
14	9.6	13	56	NR			352	303	352	86	14	4.6
15	9.6	11	53	NR			382	328	331	80	14	4.6
16	9.1	13	54	NR	R	R	379	436	300	74	13	4.6
17	9.1	14	53	NR	E	E	379	564	289	73	11	3.8
18	8.6	23	99	NR	C	C	394	639	286	68	11	4.2
19	8.6	127	230	NR	O	O	466	686	320	64	11	5.0
20	9.1	143	411	NR	R	R	521	667	286	66	11	5.0
21	9.1	66	1070	NR	D	D	582	625	260	59	19	4.5
22	8.6	40	2900	NR			606	625	251	55	19	4.1
23	8.6	33	1140	NR			634	681	251	50	12	3.9
24	8.6	30	512	NR			620	615	239	46	9.2	3.8
25	8.0	28	331	NR			545	559	223	43	7.9	3.7
26	14	35	279	NR			462	536	215	40	7.2	3.6
27	9.6	44	215	NR			413	504	220	42	6.6	3.6
28	9.1	36	169	NR			398	432	223	34	5.9	3.6
29	8.6	33	140	NR			409	449	206	29	5.9	3.5
30	9.1	32	116	NR			413	504	188	27	5.9	3.5
31	11	—	97	NR	—		—	540	—	25	5.9	
Mean	9.1	28.8	275					486	318	83.1	15.5	4.3
Ac-Ft	559	1712	16910					29860	18940	5111	955	258

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	52280

Department of Water Resources station located 2 miles west of Callahan. Flows are based on poor gage height records and insufficient measurements for good rating curves and should not be considered to have the same degree of accuracy as other gaging station records. Period of record October 1952 to date.

TABLE 2

EAST FORK SCOTT RIVER NEAR CALLAHAN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept.
1	1.7	4.4	22	120			NR	303	395	61	18	7.7
2	1.7	4.1	19	101			NR	344	363	58	18	8.6
3	1.6	4.4	16	101			NR	434	386	56	18	8.6
4	1.7	4.6	13	216			NR	519	331	54	16	9.3
5	1.7	6.0	16	146			NR	444	245	52	16	11
6	1.7	8.4	24	242			NR	363	203	50	18	11
7	1.9	7.7	21	418			NR	306	197	50	18	12
8	2.0	7.0	19	200			NR	268	226	50	17	11
9	1.9	7.0	24	157			NR	256	260	50	15	9.3
10	3.4	6.3	21	203			NR	268	260	47	14	9.3
11	3.2	6.3	27	194			306	232	222	46	13	11
12	3.2	5.5	30	190			229	190	216	44	13	11
13	3.2	6.0	28	238	N	N	206	162	203	43	11	10
14	3.4	6.0	27	471	O	O	222	170	203	41	10	9.3
15	3.4	6.0	27	2010			268	216	184	39	9.3	7.7
16	3.4	6.6	27	1180			291	335	152	38	9.3	4.3
17	3.4	7.0	29	705	R	R	279	471	138	37	8.6	4.3
18	3.2	8.8	303	492	E	E	268	644	138	35	10	4.3
19	2.6	31	950	434	C	C	314	821	197	33	12	11
20	2.8	106	966	482	O	O	418	726	144	33	12	10
21	3.4	56	3550	310	R	R	542	678	120	31	12	10
22	3.4	30	4900	354	D	D	608	813	109	30	14	9.0
23	3.6	25	2310	377			644	746	109	29	12	9.0
24	3.6	21	993	303			685	626	103	29	11	8.0
25	3.8	19	928	279			542	536	88	29	10	8.0
26	4.4	18	813	NR			409	498	84	28	11	7.0
27	4.1	21	450	NR			326	413	86	28	10	7.0
28	4.1	21	295	NR			295	354	92	25	9.3	6.0
29	4.1	19	206	NR			279	372	84	24	6.9	6.0
30	4.4	18	165	NR			279	423	68	22	6.9	5.0
31	4.4	—	133	NR	—		—	460	—	20	7.7	—
Mean	3.0	16.6	560					432	187	39.1	12.5	8.5
Ac-Ft	187	986	34420					26560	11120	2404	768	507

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	67230

Department of Water Resources station located at old bridge crossing north of Callahan. Flows are based on poor gage height records and insufficient measurements for good rating curves and should not be considered to have the same degree of accuracy as other gaging station records. Period of record October 1952 to date.

TABLE 3

ETNA CREEK NEAR ETNA

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1									NR	19	9.9	16
2									NR	18	13	16
3									NR	18	14	16
4									NR	17	12	16
5									NR	17	13	16
6									NR	17	12	16
7									NR	17	9.5	15
8									NR	17	8.3	16
9									NR	17	7.2	17
10									NR	19	5.5	16
11									NR	20	5.5	12
12	N	N	N	N	N	N	N	N	NR	21	4.6	13
13	O	O	O	O	O	O	O	O	NR	21	3.3	12
14									24	20	11	11
15									23	19	16	10
16	R	R	R	R	R	R	R	R	22	18	16	11
17	E	E	E	E	E	E	E	E	21	18	16	9.9
18	C	C	C	C	C	C	C	C	21	17	16	10
19	O	O	O	O	O	O	O	O	23	17	17	16
20	R	R	R	R	R	R	R	R	21	16	19	18
21	D	D	D	D	D	D	D	D	20	15	16	14
22									21	14	15	14
23									21	14	13	14
24									20	13	13	13
25									20	8.3	13	13
26									21	7.6	13	12
27									22	8.7	13	12
28									22	10	14	12
29									22	9.5	17	12
30									20	8.0	17	12
31		—			=		—		—	6.4	16	—
Mean										15.4	12.5	13.7
Ac-Ft										947	771	813

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year

Depsrtment of Water Resources station locsted 2 miles southwest of Etna. Station was washed out by high water in December 1955, and was reinatalled on June 14, 1956. Flows are based on poor gage height records and insufficient meaaurements for good rating curves and should not be considered to have the aame degree of accuracy as other gaging station records. Period of record September 1950 to date.

TABLE 4

SHACKLEFORD CREEK NEAR MUGGINSVILLE

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	Marcb	April	May	June	July	Aug	Sept.
1									NR	84	24	8.7
2									NR	78	24	8.7
3									NR	75	23	8.4
4									NR	73	22	8.4
5									NR	70	24	8.1
6									NR	70	23	8.1
7									NR	70	20	7.9
8									NR	73	20	7.9
9									NR	71	19	7.9
10									NR	67	18	7.9
11	N	N	N	N	N	N	N	N	NR	64	17	8.1
12	O	O	O	O	O	O	O	O	NR	62	16	8.1
13									NR	60	15	7.9
14									NR	58	15	7.6
15									118	56	14	7.4
16	R	R	R	R	R	R	R	R	111	54	14	7.4
17	E	E	E	E	E	E	E	E	110	52	13	7.1
18	C	C	C	C	C	C	C	C	116	50	13	7.1
19	O	O	O	O	O	O	O	O	132	47	12	10
20	R	R	R	R	R	R	R	R	117	45	12	10
21	D	D	D	D	D	D	D	D	109	44	14	8.4
22									110	42	14	7.9
23									117	40	13	7.6
24									111	38	12	7.3
25									104	36	11	6.8
26									106	35	10	6.6
27									116	33	10	6.6
28									112	31	9.6	6.6
29									105	29	9.3	6.3
30									102	28	9.0	6.3
31		—			=		—		—	26	8.7	—
Mean										53.6	15.4	7.8
Ac-Ft										3294	949	462

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year

Department of Water Resources station located 3 miles northwest of Mugginsville and 7 miles west of Fort Jones. Drainage area is 16 square miles. Station was washed out by high water in December 1955, and was reinstalled on June 15, 1956. Flows are based on poor gage height records and insufficient measurements for good rating curves and should not be considered to have the same degree of accuracy as other gaging station records. Period of record October 1950 to date.

TABLE 5

CANYON CREEK NEAR KELSEY CREEK GUARD STATION

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1									NR	141	37	11
2									NR	128	35	11
3									NR	118	32	10
4									NR	115	31	10
5									NR	112	31	10
6									NR	110	31	9.6
7									NR	117	29	9.2
8									NR	124	28	9.2
9									NR	118	27	9.2
10									NR	107	26	9.2
11									NR	99	25	8.8
12	N	N	N	N	N	N	N	N	NR	91	22	8.8
13	O	O	O	O	O	O	O	O	NR	94	21	8.8
14									NR	87	21	8.3
15									NR	80	20	7.9
16	R	R	R	R	R	R	R	R	194	78	19	7.6
17	E	E	E	E	E	E	E	E	192	78	19	7.6
18	C	C	C	C	C	C	C	C	198	77	18	7.6
19	O	O	O	O	O	O	O	O	238	74	18	13
20	R	R	R	R	R	R	R	R	206	69	17	11
21	D	D	D	D	D	D	D	D	189	64	17	9.6
22									192	61	16	8.8
23									201	59	15	8.3
24									192	58	15	7.9
25									174	55	14	7.6
26									182	55	14	7.3
27									208	48	14	7.3
28									203	45	13	7.0
29									185	41	12	7.0
30									159	38	12	7.0
31		—			=		—		—	35	12	—
Mean										83.1	21.3	8.8
Ac-Ft										5109	1311	527

Maximum Discharge	Water Year Of Record	Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year

Department of Water Resources station located 15 miles west of Fort Jones and 1.5 miles south of Kelsey Creek Guard Station. Drainage area is 23 square miles. Station was washed out by high water in December, 1955, and was reinstalled on June 16, 1956. Flows are based on poor gage height records and insufficient measurements for good rating curves and should not be considered to have the same degree of accuracy as other gaging station records. Period of record October 1950 to date.

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 largest river systems in the State, namely the Sacramento and San Joaquin Rivers.
2. The occurrence and development of the extensive agricultural lands contiguous 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 gathering of basic data necessary for determining the best use of water resources has continued through several programs. The three major programs under which data in this report have been gathered are Sacramento-San Joaquin Water Supervision, Trial Distribution, and California Water Development. 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.

Sacramento-San Joaquin Water Supervision Program

General. This is the oldest of the basic data gathering programs and, although primarily concerned with water utilization (diversions), information on stream flow and irrigated acreages is also obtained.

History. The exceptionally dry year of 1924 emphasized the necessity of knowing how much water was available and how it was being used along the Sacramento and San Joaquin Rivers. In that year the State was asked by the water users, through "The Permanent Committee of the Sacramento-San Joaquin River Problems Conference", to gather data on water supply and demand. A parallel task was that the State would make recommendations for action, to the committee, when acute water shortages were anticipated.

Financially, this program was supported to a large extent during the early years by contributions from the water users. Since about 1944 State funds have been made available through budgetary channels of the Legislature and through cooperative arrangements with federal and local agencies.

The geographical area of activity, during the early years of this program, was confined to the main stems of the Sacramento and San Joaquin Rivers. As the data usage was expanded the program likewise increased through the years. Most of the tributary streams throughout the entire Sacramento-San Joaquin Valley, including much of the foothill area, are now reported upon. This coverage encompasses both measurements of stream flow and measurements of diversions.

Trial Distribution Programs

General. The Central Valley Project, constructed and operated by the U. S. Bureau of Reclamation, has changed the picture of water supply and utilization in the Sacramento and San Joaquin Valleys. Through storage and regulation more water has been made available during the period of normally low runoff which coincides with the period of high agricultural demand.

This change has ameliorated some problems, created others, and realigned consideration of still others.

Sacramento River Trial Distribution Program. The completion in 1943 of Shasta Dam on the upper Sacramento River has markedly changed the flows of that stream during flood seasons and low flow periods. In addition to other benefits, the regulation of the flow has provided water to: (1) aid navigation; (2) reduce the encroachment of saline waters into the Delta Area; and (3) improve diversions during the agricultural season.

This improved water supply has not been accomplished without concomitant problems. In order to arrive at a solution to the difficult water rights problems of users along the Sacramento River below Keswick and along the Delta channels, an agreement entered into in July 1952, between the Bureau of Reclamation, the State of California and the Sacramento Valley Water Users Committee, provided for the accumulation and study of data of water supply and use. The information gathered under this agreement was used as a basis in 1954 for entering into the "Sacramento River and Delta Trial Distribution Agreement for 1955". The parties to this agreement were the Bureau of Reclamation, the State, and the Sacramento River and Delta Water Association (formed as successor to the Sacramento Valley Water Users Committee in order to include water users in the Delta). This agreement provided for testing of trial diversion schedules in order to develop a comprehensive schedule satisfactory to all interests. Studies under this program are being continued.

American River Trial Distribution Program. Operation of Folsom Reservoir on the American River was started in 1955. In order to gather data needed for a solution of anticipated water rights problems, a trial distribution program for this stream below Nimbus Dam was initiated in 1956.

Feather River Trial Distribution Program. In anticipation of the upstream development of this stream system by the State of California, a trial water distribution program covering the valley floor areas of the Feather and Yuba Rivers has been initiated in order to accumulate data on water supply and utilization for use in operating the Feather River Project.

California Water Development Program

In connection with the activities of the Department's California Water Development Program, surface water measurements include the collection of stream flow data at specified locations for studies of water development planning.

Tabular Information

On the following pages are tables of stream flow, diversions and acreages irrigated, summaries of the foregoing, and supplemental information for the 1956 water year.

TABLE 6

MONTHLY PRECIPITATION
OCTOBER 1955 THROUGH SEPTEMBER 1956

In Inches

Station		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
Shasta Dam	1955-56	.73	11.38	33.98	18.40	16.12	.16	1.60	3.77	1.14	.17	.00	.19	87.64
	Average	3.87	5.92	9.93	10.42	10.69	6.38	4.22	2.15	1.38	.19	.16	.59	55.90
Redding Fire Station 2	1955-56	.40	9.17	14.96	14.00	8.05	.05	1.82	1.66	1.09	.04	.00	.13	51.37
	Average	1.96	4.07	6.73	7.41	6.30	4.79	2.76	1.63	1.01	.11	.10	.58	37.45
Red Bluff Airport	1955-56	.38	3.63	7.71	8.63	1.09	.01	1.27	4.04	.58	T	.00	.29	27.63
	Average	1.04	2.11	3.74	3.78	2.98	2.56	1.37	.87	.43	.03	.06	.44	19.41
Orland	1955-56	.32	2.67	7.71	6.98	1.49	.00	1.67	1.55	.50	T	.00	.47	23.36
	Average	.86	1.81	3.60	3.57	3.02	2.40	1.28	.56	.35	.02	.04	.32	17.83
Chico Experiment Station	1955-56	1.02	3.08	11.71	10.23	3.23	.00	1.77	1.87	.31	.00	.00	.30	33.52
	Average	1.20	2.62	4.96	5.02	4.38	3.29	1.91	1.03	.44	.02	.05	.40	25.32
Colusa	1955-56	.55	1.92	7.19	4.52	2.01	.09	1.49	.74	.33	.00	.00	.21	19.05
	Average	.68	1.64	3.14	3.06	2.73	2.13	1.02	.50	.21	.01	.02	.23	15.37
Marysville	1955-56	.77	2.41	11.30	9.20	2.88	.04	1.72	1.35	.03	.00	.00	.69	30.39
	Average	.94	2.16	3.99	4.05	3.63	2.88	1.42	.76	.24	.00	.02	.23	20.32
Woodland	1955-56	.46	1.30	11.71	6.19	2.54	.06	1.70	.36	.00	.00	.00	.56	24.88
	Average	.67	1.56	3.24	3.54	2.96	2.21	1.11	.49	.17	.00	.01	.20	16.16
Folsom Dam	1955-56	*.69	1.78	12.23	8.11	2.68	.08	1.70	3.08	T	.00	.00	.61	30.96
	*Average	1.02	2.30	4.24	5.04	4.34	3.57	1.76	.84	.25	.01	.01	.25	23.63
Sacramento City	1955-56	.57	1.16	12.20	7.58	2.43	.03	1.86	.96	T	.00	.00	.84	27.63
	Average	.79	1.67	3.48	3.87	3.31	2.59	1.32	.59	.19	.00	.02	.22	18.05
Davis	1955-56	.44	1.16	11.87	6.19	2.67	.08	1.50	.54	.00	.00	.00	.50	24.95
	Average	.65	1.50	3.29	3.67	3.00	2.28	1.14	.49	.16	.00	.01	.18	16.37
Benson's Ferry	1955-56	.33	1.22	8.77	5.15	1.68	.15	1.70	.74	.00	.00	.00	.80	20.54
	Average	.68	1.41	2.83	3.20	2.63	2.28	1.12	.58	.15	.00	.00	.20	15.08
Lodi	1955-56	.13	1.21	9.45	5.62	1.38	.05	2.00	1.08	T	.00	.00	.75	21.67
	Average	.79	1.50	3.14	3.39	2.74	2.43	1.20	.58	.13	.00	.00	.19	16.09
Antioch	1955-56	.15	.81	7.55	5.17	1.08	.09	1.79	.50	T	.06	.00	.68	17.88
	Average	.51	1.15	2.62	2.79	2.23	1.81	.78	.36	.11	.01	.01	.21	12.59
Stockton Fire Station 4	1955-56	.12	1.30	8.42	4.99	.94	.04	1.75	.98	T	.00	.00	.40	18.94
	Average	.60	1.31	2.68	3.03	2.33	2.11	.99	.53	.12	.01	.00	.20	13.91
Tracy Carbona	1955-56	.03	.98	4.99	3.62	.40	.01	1.59	1.01	.00	.00	.00	.52	13.15
	Average	.39	.78	1.65	1.81	1.46	1.37	.66	.41	.10	.00	.00	.13	8.76
Modesto	1955-56	.02	1.09	6.34	4.36	.79	T	1.95	.81	T	.00	.00	.28	15.64
	Average	.50	1.02	2.31	2.29	1.99	1.97	.93	.45	.11	.01	.02	.16	11.76
Merced Fire Station 2	1955-56	.02	.57	7.71	2.96	1.03	T	2.61	.52	.00	.00	.00	.18	15.60
	Average	.47	1.15	2.03	2.46	2.12	1.99	1.03	.44	.08	.01	.01	.12	11.91
Los Banos	1955-56	.03	.76	5.47	2.99	.25	.00	1.37	.54	.00	.00	.00	.16	11.57
	Average	.38	.83	1.56	1.80	1.43	1.44	.73	.30	.05	.01	.01	.10	8.64
Fresno Airport	1955-56	T	1.34	6.73	2.41	.65	.08	1.38	.81	.00	T	.00	T	13.40
	Average	.51	.80	1.63	1.90	1.61	1.68	.87	.32	.11	.01	.01	.08	9.53

T - Trace
* - U. S. Weather Bureau Station transferred from Folsom to Folsom Dam November 1, 1955.

1955-1956 records from U.S. Weather Bureau. Averages are based on the 50-year period 1905-1955.

TABLE 7

MONTHLY RUNOFF IN PER CENT OF AVERAGE (a)
SACRAMENTO-SAN JOAQUIN RIVER SYSTEM

1955-56 Water Year

Month		Sacramento and San Joaquin Rivers to Delta (b)	Sacramento River near Red Bluff	Sacramento River at Sacramento (b)	Feather River near Oroville	Yuba River at Smartville	American River at Fair Oaks	Mokelumne River at 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 (b)
	(a)												
October	1955	70	94	84	78	61	59	25	50	40	30	28	35
	Average	467	274	412	87	28	22	4	8	15	7	21	51
November	1955	75	101	82	68	50	39	24	41	28	29	46	36
	Average	850	408	727	164	80	75	17	22	39	17	28	107
December	1955	616	420	562	658	785	848	825	890	1015	1095	935	980
	Average	1532	715	1312	298	152	147	29	41	66	34	50	191
January	1956	327	296	312	311	362	352	433	403	414	374	454	413
	Average	2392	1091	2042	443	238	270	43	68	105	60	74	307
February	1956	134	167	133	134	109	99	133	128	124	103	150	130
	Average	2871	1280	2418	535	282	321	57	87	136	80	93	397
March	1956	97	100	97	108	87	76	100	88	101	80	106	96
	Average	3285	1209	2609	665	332	404	85	137	196	110	147	590
April	1956	97	92	94	110	80	83	102	95	101	100	111	102
	Average	3813	1034	2760	816	417	492	136	215	295	155	251	917
May	1956	137	140	140	150	130	138	128	132	133	128	131	130
	Average	4070	720	2427	717	444	546	201	300	454	250	438	1442
June	1956	140	114	128	142	128	135	150	142	162	151	153	154
	Average	2702	474	1390	358	240	319	138	199	382	190	404	1174
July	1956	137	111	126	143	139	150	148	150	187	185	173	175
	Average	1093	326	625	153	62	83	31	62	133	59	184	438
August	1956	135	117	125	142	117	117	135	142	160	200	165	167
	Average	514	266	410	99	24	20	4	14	23	12	52	100
September	1956	127	115	123	143	110	150	154	166	170	180	162	153
	Average	411	252	367	80	21	14	2	6	10	5	21	41
Seasonal	1955-1956	171	164	171	180	171	172	167	162	178	172	173	171
	Average	24000	8049	17499	4415	2320	2713	747	1159	1854	979	1763	5755

(a) Averages considered as mean values in thousands of acre-feet for 50-year period October 1905 through September 1955.
(b) Figures computed from summations of unimpaired flow at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.

TABLE 8

SEASONAL RUNOFF IN PER CENT OF AVERAGE (a)

SACRAMENTO-SAN JOAQUIN RIVER SYSTEM

Water Year Ending September 30	Sacramento and San Joaquin Rivers to Delta	Sacramento River near Red Bluff	Sacramento River at Sacramento	Feather River Near Oroville	Yuba River at Smartville	American River at Fair Oaks	Mokelumne River at 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
Mean Annual Runoff (a) Thous. Ac.-Ft.	(b) 24000	8049	(b) 17499	4415	2320	2713	747	1159	1854	979	1763	(b) 5755
1920	57	52	52	50	56	54	63	64	73	70	75	71
1921	128	143	136	137	137	118	117	109	109	103	91	102
1922	111	83	103	115	128	121	124	123	134	146	134	134
1923	81	66	76	70	89	101	95	97	96	96	94	96
1924	31	41	33	29	26	20	25	22	29	26	25	26
1925	93	100	92	71	91	100	112	106	104	93	82	96
1926	65	70	68	72	69	51	50	52	60	62	66	61
1927	131	136	137	132	153	135	120	118	111	111	114	113
1928	91	95	96	96	105	93	86	82	82	75	66	76
1929	48	55	48	42	43	42	46	44	53	50	50	50
1930	72	76	77	88	78	61	62	63	62	52	50	57
1931	33	41	35	33	28	26	28	27	32	27	28	29
1932	85	63	75	74	91	96	100	117	114	114	117	115
1933	53	57	51	43	46	47	57	52	60	53	63	58
1934	47	56	49	46	43	41	40	37	44	37	40	40
1935	99	93	95	96	97	95	94	105	114	120	110	112
1936	103	88	99	97	112	125	120	114	117	118	106	113
1937	86	74	76	71	80	86	93	96	108	124	125	113
1938	184	182	181	193	174	166	166	176	185	212	209	195
1939	48	54	47	42	39	39	45	45	53	49	53	51
1940	124	130	128	127	123	126	115	121	120	112	107	115
1941	150	178	155	147	138	116	113	115	135	148	150	138
1942	140	140	144	150	147	144	132	128	128	131	128	128
1943	122	106	121	127	135	143	134	135	128	132	116	126
1944	61	58	59	63	60	54	60	58	71	70	68	67
1945	93	82	86	85	91	93	104	110	113	112	121	115
1946	100	100	100	94	103	106	100	102	102	96	98	100
1947	59	63	59	57	59	52	53	55	59	58	64	59
1948	86	95	90	87	87	83	85	77	76	70	69	73
1949	68	75	68	59	64	68	69	64	68	65	66	66
1950	83	71	82	87	96	98	101	93	84	73	74	81
1951	131	113	131	128	153	171	155	146	134	124	105	126
1952	164	143	163	179	178	183	177	165	165	160	173	167
1953	104	120	115	117	110	98	91	83	83	63	67	75
1954	92	115	100	95	83	74	71	77	78	68	72	74
1955	62	70	63	56	55	58	59	59	61	54	66	61
1956	171	164	171	180	171	172	167	162	178	172	173	171

(a) 50-year average taken as 50-year (1905-1955) mean seasonal unimpaired flow (Oct.-Sept., incl.).

(b) Summation of unimpaired flow at foothill stations on major tributaries only, and does not include runoff from minor tributaries and from valley floor.

TABLE 9

SUMMARY OF MONTHLY WATER SUPPLY AND UTILIZATION
SACRAMENTO-SAN JOAQUIN DELTA
1956 WATER YEAR

Item	Record in Table No.	Quantities in Thousands of Acre-Feet												
		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total	1956 Oct.
WATER SUPPLY															
Measured Inflow															
Sacramento River at Sacramento	104	486.5	599.0	2437.0	4555.0	3081.0	2911.0	1911.0	2611.0	1517.0	762.5	724.5	818.0	22413.5	801.0
Sacramento Weir	97	0.0	0.0	589.5	57.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	647.0	0.0
Yolo Bypass near Woodland	108	0.5	0.5	3000.0	4290.0	1365.0	470.0	23.5	81.0	10.5	0.5	2.0	4.0	9247.5	0.5
Putah Creek near Davis	110	0.0	0.0	301.0	231.5	228.5	49.0	15.5	9.5	1.0	0.0	0.0	0.0	836.0	0.0
Cosumnes River at McConnell	168	0.0	1.0	253.0	234.5	72.5	55.5	49.0	77.0	19.5	3.5	0.0	0.0	765.5	1.5
Dry Creek near Galt	166	0.0	0.0	87.0	101.0	17.5	8.5	4.0	4.5	0.0	0.0	0.0	0.0	222.5	0.0
Mokelumne River at Woodbridge	165	9.5	16.5	126.5	211.0	104.5	84.0	76.5	150.0	127.5	25.0	5.5	12.5	949.0	23.0
Bear Creek near Lockeford	161	0.0	0.0	8.0	9.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	0.0
Calaveras River near Stockton	158	0.0	0.0	6.0	9.5	2.5	0.0	0.0	0.5	0.5	1.5	1.0	1.0	22.5	0.0
Stockton Diverting Canal at Stockton	160	0.0	0.0	115.0	125.0	15.0	9.5	0.0	0.0	0.5	0.5	0.5	0.0	266.0	0.0
Duck Creek near Stockton	155	0.0	0.0	2.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0
French Camp Slough near French Camp	153	0.0	0.5	29.5	72.0	5.5	3.0	5.5	2.5	1.5	0.5	0.0	0.5	121.0	0.5
San Joaquin River near Vernalis	148	49.0	64.0	670.5	1663.0	994.0	460.5	372.5	859.5	729.0	214.0	117.0	112.0	6305.0	123.0
Total Measured Inflow		545.5	681.5	7625.5	11563.0	5886.5	4051.0	2457.5	3795.5	2407.0	1008.0	850.5	948.0	41819.5	949.5
Precipitation (a)		5.5	55.0	468.5	269.5	67.0	37.0	92.5	42.0	0.0	0.0	0.0	34.0	1071.0	48.0
WATER UTILIZATION															
Consumptive Use in Delta Lowlands Area		92.5	43.5	33.5	22.5	26.5	36.0	86.0	124.0	140.0	195.5	214.5	159.5	1174.5	92.5
Exportations															
Delta-Mendota Canal	162	69.0	21.0	8.5	0.5	9.0	25.5	38.5	22.0	64.5	195.0	179.0	93.5	726.0	40.5
Contra Costa Canal	169	3.5	3.0	2.5	2.0	2.0	2.5	3.5	4.0	5.5	5.0	5.5	5.5	44.5	4.5
City of Vallejo	227	1.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.5	1.5	1.0	10.0	0.5
Total		73.5	24.5	11.5	3.0	11.5	28.5	42.5	27.0	71.0	201.5	186.0	100.0	780.5	45.5
Delta Uplands Diversions															
Old San Joaquin River	214	6.0	0.5	0.0	0.0	0.0	6.0	10.5	16.0	23.5	24.5	22.0	12.0	121.0	4.0
Tom Paine Slough	214	1.0	0.5	0.5	0.0	0.0	2.0	1.5	2.0	3.5	3.5	4.0	3.0	21.5	1.5
San Joaquin River (Stockton to Vernalis)	215	3.5	1.0	1.0	0.0	0.0	5.0	9.5	7.5	13.0	16.5	13.0	7.5	77.5	2.5
French Camp Slough below French Camp	214	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	2.5	0.0
Calaveras River below Stockton	216	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	0.0
Mokelumne River below Woodbridge	216	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	2.0	1.5	0.5	6.5	0.5
Cosumnes River below McConnell	216	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	2.5	0.0
Sacramento River below Sacramento	216	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	1.5	0.0
Yolo Bypass (West Cut)	216	2.0	3.0	0.5	0.0	0.0	0.0	0.5	1.5	3.5	6.0	5.0	2.0	24.0	2.5
Miscellaneous	217	8.5	3.0	0.5	0.0	0.0	2.5	9.0	12.0	18.0	22.0	19.5	14.5	109.5	10.0
Total Water Utilization		187.0	76.0	47.5	25.5	38.0	80.0	159.5	192.5	275.5	474.0	467.0	300.0	2322.5	159.0

Totals are rounded off to the nearest 500 acre-feet.
(a) Water supply from precipitation has been computed using a weighted mean rainfall and the acreage of the Delta Service Area

TABLE 10

SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
SACRAMENTO RIVER AND TRIBUTARIES
1956 WATER YEAR

Item	Mileage	Record in Table No.	Quantities in Thousands of Acre-Feet												
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total	1956 Oct.
SACRAMENTO RIVER																
Computed Inflow to Shasta Lake		13	205.5	293.5	1869.5	1758.0	1208.5	888.5	735.0	730.0	383.5	278.5	247.5	233.0	8831.0	288.5
Unmeasured Accretions			+5.0	+3.5	+74.0	+63.0	+56.0	+4.5	-3.5	-4.5	-6.0	-15.0	-12.5	-7.5	+166.0	-1.5
Change in Storage		14	-123.0	+25.0	+1059.0	-54.0	-186.5	+336.0	+508.5	+109.0	-78.5	-298.5	-300.5	-256.5	+1113.0	-155.0
At Keswick	250.5	15	333.5	272.0	884.5	1875.0	1078.0	557.0	223.0	625.5	456.0	562.0	535.5	482.0	7884.0	442.0
Near Redding*	240.7	16	310.0	282.0	931.0	NR	NR	572.5	209.5	629.0	443.5	545.0	525.5	479.5		430.0
Clear Creek near Igo	237.1R	17	1.5	7.0	143.5	143.5	104.5	44.5	28.0	22.0	8.0	4.0	2.0	1.5	510.0	3.5
Cow Creek near Millville	228.8L	18	2.5	35.0	196.5	268.5	73.0	40.5	31.5	69.0	18.5	5.5	3.0	3.5	749.0	10.0
At Balls Ferry*	224.5	19	317.0	337.0	1272.0	2366.0	1252.0	682.5	280.0	720.5	471.5	564.0	529.5	471.0	9263.0	447.0
Cottonwood Creek near Cottonwood	222.2R	20	5.0	16.5	294.5	325.0	185.0	108.0	84.0	70.5	26.0	10.5	5.5	5.5	1136.0	9.0
Battle Creek near Cottonwood	221.5L	21	10.5	17.0	83.0	104.0	52.5	37.0	36.5	56.0	37.0	20.5	14.5	13.0	481.5	15.0
Paynes Creek near Red Bluff	201.5L	22	0.0	1.5	26.5	37.0	16.5	4.5	2.0	4.0	0.5	0.0	0.0	0.0	92.5	0.0
Unmeasured Accretions			+13.0	+46.0	+185.5	+483.0	+142.5	+64.0	+30.5	+24.0	+25.5	+23.5	+25.0	+26.0	+1088.5	+37.5
Diversions			24.5	10.0	0.0	0.0	0.0	2.5	26.0	27.5	29.5	31.0	30.5	28.0	209.5	26.0
Near Red Bluff	198.6	23	341.5	385.0	1816.0	3236.0	1652.0	853.0	409.5	843.5	542.0	595.0	555.0	503.5	11732.0	491.0
Redbank Creek at Foothills	191.2R	24	0.0	0.5	12.0	17.5	11.5	3.0								
Antelope Creek near Red Bluff*	180.3L	25	2.0	3.0	41.5	47.0	31.0	10.5	9.0	14.5	6.0	3.0	2.5	2.5	172.5	2.5
Antelope Creek near Mouth	182.6L	26	1.0	2.0	39.5	36.0	21.5	3.0	2.5	3.5	1.0	0.5	0.5	1.5	112.5	1.5
North Fork Mill Creek near Mouth	179.3L	27	0.0	0.5	NR	NR	3.0	1.5	1.5	1.0	0.5	0.5	0.0	0.0		0.0
Mill Creek near Los Molinos	179.0L	28	6.0	8.0	78.5	69.5	40.5	22.5	27.5	41.5	30.5	15.5	9.5	8.0	357.5	8.5
Mill Creek near Mouth	179.0L	29	1.0	7.0	87.0	78.5	46.5	16.5	18.0	34.0	24.0	6.5	0.5	0.5	320.0	2.5
Elder Creek near Gerber	178.5R	30	0.0	1.0	41.5	35.5	26.5	10.5	13.0	10.0	2.0	0.0	0.0	0.0	140.0	0.0
Thomes Creek at Paskenta	173.2R	31	0.0	4.5	124.0	98.0	53.0	40.5	51.5	44.5	14.0	3.0	0.5	0.5	434.0	2.0
Deer Creek near Vina*	168.5L	32	5.5	7.0	112.0	96.5	56.0	32.5	35.0	44.5	20.0	10.5	7.5	7.0	434.0	8.5
Deer Creek at Highway 99E	168.5L	33	1.0	5.0	90.0	92.0	53.5	30.0	26.5	33.0	12.0	2.0	0.5	0.5	346.0	1.5
Unmeasured Accretions			+8.5	+3.5	+173.0	+405.5	+194.5	+85.0	+40.5	+57.5	+29.0	+31.0	+20.0	+9.0	+1057.0	+11.5
Diversions			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	1.5	0.0
At Vina Bridge	166.5	34	353.0	409.0	2383.0	3999.0	2062.0	1043.0	563.0	1027.0	624.0	638.0	576.5	515.5	14193.0	510.0
Unmeasured Accretions			+6.0	-1.0	-172.0	-3999.0	-2062.0	-1034.5	-495.5	-917.5	-491.5	-9.0	-7.5	+1.0	-9182.5	-2.0
Diversions			47.0	18.5	0.0	0.0	0.0	8.5	67.5	109.5	132.5	144.5	137.5	72.5	736.0	45.0
At Hamilton City	149.5	35	312.0	389.5	2211.0	NR	NR	NR	NR	NR	NR	484.5	431.5	444.0		463.0
Big Chico Creek near Chico	141.5L	36	1.5	2.5	62.0	57.0	42.0	15.0	7.0	7.5	3.0	2.0	2.0	1.5	203.0	2.0
Big Chico Creek at Chico		37					12.0	3.0	4.0	3.0	1.0	1.5	1.0	0.5		1.0
Lindo Channel at Chico		38					25.5	12.5	2.5	2.0	0.0	0.0	0.0	0.0		0.0
Big Chico Creek near Mouth	141.5L	39	0.0	0.5	49.5											
Stony Creek at Black Butte Dam Site*	138.0R	40	2.0	1.0	126.0	187.0	130.5	62.0	42.5	43.0	24.5	24.5	21.0	15.5	679.5	4.0
Stony Creek near Hamilton City	138.0R	41	0.0	0.0	144.0	218.0	171.5	60.0	30.0	26.0	1.5	0.0	0.0	0.0	651.0	0.0
Unmeasured Accretions			+4.5	+17.5	+80.5	+3721.0	+1854.0	+1070.0	+529.0	+911.5	+520.0	+16.5	+7.5	+12.0	+8744.0	+0.5
Diversions (a)			0.5	0.0	0.0	0.0	0.0	7.5	31.0	27.0	3.5	4.0	4.5	1.5	79.5	0.0
At Ord Ferry	130.8	42	316.0	407.5	2485.0	3939.0	2063.0	1136.0	534.5	915.5	519.0	498.5	435.5	455.0	13706.5	464.5
Unmeasured Accretions			-0.5	-23.5	-75.5	+161.0	+42.0	+18.0	-8.5	-10.0	-8.0	-19.0	-2.5	-12.5	+61.0	-6.0
Diversions			1.0	0.5	1.5	0.0	0.0	0.0	9.5	17.0	15.5	16.0	16.0	7.0	84.0	2.0
At Butte City	115.8	43	314.5	383.5	2408.0	4100.0	2105.0	1156.0	516.5	888.5	495.5	463.5	417.0	435.5	13683.5	456.5
Opposite Moulton Weir	103.3	45	320.0					1309.0	541.5	896.0	475.5	441.0	396.5	433.5		456.5
Unmeasured Accretions			+10.5	-1.5	-97.0	+252.0	+77.5	+85.5	+35.5	+39.5	+2.5	+0.5	-8.5	+3.0	+416.5	+3.5
Moulton Weir	104.0L	44	0.0	0.0	164.0	214.0	90.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	468.5	0.0
Colusa Weir	92.4L	46	0.0	0.0	860.5	1889.0	653.0	108.5	0.0	0.0	0.0	0.0	0.0	0.0	3511.0	0.0
Diversions			0.5	0.5	0.5	0.0	0.0	0.0	6.5	20.5	24.0	27.5	24.0	8.0	112.0	0.5
At Colusa	89.4	47	324.5	381.5	1286.0	2249.0	1439.0	1133.0	545.5	907.5	474.0	436.5	401.5	430.5	10008.5	459.5
Butte Creek near Chico*	84.0L	48	7.0	9.0	126.5	113.5	80.0	42.5	37.0	41.5	20.0	11.5	9.5	9.0	507.0	11.5
Butte Slough to Sacramento River	84.0L	49	4.5	10.0	16.0	2.5	3.5	11.5	31.0	11.0	11.5	1.5	9.5	24.5	141.0	0.0
At Meridian*	79.8S	50	323.0					1180.0	581.0	867.5	490.0	438.0	406.5	449.0		462.0
R. D. 70 Drain	68.8L	51	0.5	0.5	3.0	8.0	3.5	1.5	0.5	4.5	2.5	2.5	3.5	3.0	33.5	1.0
Unmeasured Accretions			-8.5	-4.0	+70.5	+132.5	+7.5	+21.0	+8.0	-19.5	+13.0	+8.5	+0.5	+3.0	+232.5	0.0
Tisdale Weir	64.2L	52	0.0	0.0	419.5	899.0	300.5	106.0	0.0	0.0	0.0	0.0	0.0	0.0	1725.0	0.0
Diversions			4.0	0.0	0.0	0.0	0.0	0.0	28.0	73.5	74.0	84.0	76.0	24.0	303.5	3.0
Below Wilkins Slough	62.9	53	317.0	388.0	956.0	1493.0	1153.0	1061.0	557.0	830.0	429.0	367.0	339.0	437.0	8327.0	460.0
Above R. D. 108 Drain Plant*	46.4	54	315.5					1072.0	567.5	823.0	424.0	360.0	339.5	440.0		454.0
M. D. 108 Drain	44.0R	55	1.0	0.5	9.0	16.5	7.0	3.0	3.0	19.5	18.5	17.0	20.0	17.0	132.0	1.0
M. D. 787 Drain	37.0R	56	0.0	0.0	3.0	6.0	3.5	1.5	1.0	3.0	2.0	2.5	2.5	2.0	27.0	0.5
Colusa Basin Drain	34.15R	60	26.5	26.0	9.5	0.0	0.0	0.0	30.5	8.5	53.0	40.5	58.5	73.0	320.0	29.0
Sycamore Slough	34.15R	61	0.0	0.0	1.5	2.5	0.5	0.5	0.0	1.0	0.5	0.5	0.5	0.5	8.0	0.0
Unmeasured Accretions			+12.5	+13.0	-4.5	-3.0	+16.0	+12.0	+1.0	-42.0	+7.0	+26.0	+17.0	-0.5	+74.5	+6.0
Diversions			0.0	0.0	0.0	0.0	0.0	0.0	8.0	29.0	30.5	36.0	32.0	13.5	149.0	0.5
At Knights Landing	14.0	62	357.0	427.5	974.5	1515.0	1180.0	1098.0	584.5	791.0	479.5	417.5	405.5	515.5	8745.5	496.0
Sacramento Slough	21.2L	67	14.5	20.0	NR	NR	NR	NR	44.5	100.0	55.5	34.5	42.0	NR		16.0
Feather River at Nicolaus	20.9L	89	75.5	130.5	2372.0	2369.0	1333.0	1184.0	1054.0	1295.0	624.0	136.0	90.0	142.0	10805.0	186.5
Coon Creek at Highway 99E*	19.6L	90	1.0	1.5	30.0	32.5	10.0	4.0	2.5	4.5	0.5	0.0	0.0	1.0	93.5	2.0
Auburn Ravine at Lincoln*	19.6L	91	0.5	1.0	13.5	24.0	5.5	2.5	1.5	4.0	4.0	4.5	4.5	2.0	67.0	1.0
Natomas Cross Canal at Head	19.6L	92	1.0	2.0	52.0	60.5	15.0	5.5	3.0	3.5	0.5	0.0	0.0	1.5	151.5	2.5
N. D. 1001 Drain	19.6L	93	0.0	0.0	NR	NR	NR	17.5	4.0	4.0	8.5	1.5	0.0	0.0		0.0
Unmeasured Accretions			-19.0	-28.5	+1453.5	+3164.5	+1009.0	+448.0	-36.5	+38.5	+2.0	-31.0	-13.5	+27.0	+6011.0	-19.5
Fremont Weir	28.0R	63	0.0	0.0	2793.0	3429.0	820.0	175.0	0.0	0.0	0.0	0.0	0.0	0.0	7221.0	0.0
Diversions (b)			0.5	0.0	0.0	0.0	0.0	0.0	1.5	12.0	12.0	15.0	15.0	6.0	64.0	0.0
At Verona	19.6	94	428.5	551.5	2066.0	3685.0	2711.0	2570.0	1650.0	2220.0	1158.0	943.5	509.0	680.0	18772.5	681.5
N. D. 1000 Drain (Pritchard Lake)	19.0L	95	0.0	0.0	3.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0
N. D. 1000 Drain (2nd Bannon Slough)	2.1L	98	0.0	0.0	11.5	22.0	6.5	4.5	1.0	1.0	0.5	0.0	0.0	7.0	46.0	0.5
Linda Creek near Roseville	1.1L	99	2.0	2.0	28.0	30.0	8.0	1.5	2.5	3.0	1.0	1.0	1.0	2.0	84.0	2.5
American River at Sacramento	1.1L	103	47.0	32.0	894.5	1041.0	332.0	338.5	238.5	387.0	400.0	254.0	237.5	137.5	4339.5	76.5
Unmeasured Accretions			+11.0	+17.0	+20.0	-169.0	+25.5	-1.0	+20.0	+17.5	-13.5	+1.5	+11.5	+7.0	-40.5	+45.0
Sacramento Weir	4.2R	97	0.0	0.0	589.5	57.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	647.0	0.0
Diversions (c)			4.0	3.5	5.0	2.0	2.0	2.5	7.0	17.5	29.0	37.5	35.0	15.5	160.5	5.0
At Sacramento	0.6	104	486.5	599.0	2417.0	4556.0	3081.0	2911.0	1911.0	2611.0	1517.0	702.5	724.0	818.0	22413.0	801.0
Shasta Lake to Sacramento																
Total Unmeasured Accretions			+45.0	+42.0	+1714.0	+4216.5	+1362.5	+782.5	+126.5	+104.0	+80.0	+33.5	+54.0	+67.5	+8628.0	+75.0
Total Diversions			82.5	33.0	7.0	2.0	2.0	21.0	187.0	333.5	351.0	396.0	371.0	176.0	1962.0	82.5

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

All figures in this table are rounded off to the nearest 500 acre-feet.
* Not included in computations of unmeasured accretions.
(a) Includes diversions from Stony Creek by Glenn-Colusa Irrigation District.
(b) Includes diversions from Feather River below Nicolaus.
(c) Includes diversions from American River below "N" Street Bridge.

TABLE 10

SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
SACRAMENTO RIVER AND TRIBUTARIES (Continued)
1956 WATER YEAR

Item	Mileage	Record in Table No.	Quantities in Thousands of Acre-Feet												Water Year Total	1956 Oct.
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
FEATHER RIVER																
Near Oroville	71.0	78	96.0	120.5	1747.0	1232.0	715.0	763.0	780.5	878.5	426.0	198.0	177.5	168.5	7302.5	193.5
Unmeasured Accretions			-1.5	-7.5	-84.0	+57.0	+7.5	+2.5	+10.5	-10.0	-20.5	-1.5	-5.5	-13.0	-60.0	-8.0
Diversions			39.0	12.0	0.0	0.0	0.0	12.5	64.5	120.0	122.0	130.5	118.0	84.0	682.0	40.5
Near Gridley	49.7	79	55.5	101.0	1663.0	1289.0	722.5	753.0	732.5	748.5	283.5	66.0	54.0	91.5	6560.0	145.0
South Honcut Creek near Bangor	43.7L	80	0.0	0.0	18.0	18.0	9.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	49.0	0.0
Unmeasured Accretions			+15.0	+10.5	-1681.0	+56.0	+37.5	+16.0	-18.0	+77.0	+48.0	+23.0	+19.5	+25.0	-1371.5	+20.0
Diversions			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.0	1.5	1.0	6.0	0.0
At Yuba City	28.0	81	70.5	111.5	NR	1363.0	769.0	771.0	715.5	826.5	330.0	87.0	72.0	115.5		165.0
Yuba River near Marysville	27.3	85	5.5	19.0	1064.0	809.0	337.0	254.0	243.0	495.0	253.0	35.5	21.0	22.5	3558.5	24.0
Unmeasured Accretions			+4.0	+5.5	-1054.0	-1.0	0.0	0.0	+40.0	-2.5	+26.0	+18.0	+5.5	+13.0	-955.5	+29.0
Diversions (a)			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	1.5	0.0
Below Shanghai Bend	23.0	86	80.0	136.0	NR	2171.0	1106.0	1025.0	998.5	1319.0	608.5	140.0	98.0	151.0		218.0
Baar River near Wheatland	12.0L	87	2.0	2.5	215.5	184.5	74.5	40.5	27.0	32.0	3.0	0.5	0.5	0.5	583.0	4.5
Dry Creek near Wheatland	12.0L	88	0.5	0.5	38.0	34.5	7.0	2.0	1.0	1.5	0.0	0.0	0.0	0.0	85.0	0.0
Unmeasured Accretions			-6.5	-8.5	-2118.5	-21.0	+145.5	+116.5	+28.5	-52.5	+18.0	+1.5	-3.0	-7.0	+2330.0	-35.5
Diversions (b)			0.5	0.0	0.0	0.0	0.0	0.0	1.0	5.0	5.5	6.0	5.5	2.5	26.0	0.5
At Nicolaus	9.3	89	75.5	130.5	2372.0	2369.0	1333.0	1184.0	1054.0	1295.0	624.0	136.0	90.0	142.0	10805.0	186.5
Oroville to Nicolaus																
Total Unmeasured Accretions			+11.0	0.0	-710.5	+91.0	+190.5	+135.0	+67.0	+12.0	+71.5	+41.0	+10.5	+18.0	-57.0	+5.5
Total Diversions			39.5	12.0	0.0	0.0	0.0	12.5	65.6	125.0	129.5	139.0	125.5	87.5	716.0	41.0
AMERICAN RIVER																
Computed Inflow to Folsom Reservoir		100	36.0	49.0	1261.0	977.5	340.5	334.5	419.5	771.0	420.0	114.5	29.0	28.5	4781.0	53.5
Unmeasured Accretions			-0.5	-1.0	-9.0	-14.0	-1.5	-13.5	-0.5	-20.5	-3.5	0.0	+5.0	-2.0	-67.0	+1.5
Diversions			4.0	3.0	1.5	0.5	1.5	2.5	3.0	3.5	5.0	5.5	4.5	4.0	38.5	1.5
Change in Storage		101	-18.0	+12.5	+347.5	-43.0	+17.5	-13.5	+173.0	+354.5	+9.0	-153.5	-214.5	-117.0	+354.5	-31.0
At Fair Oaks	19.2	102	49.5	32.5	903.0	1006.0	320.0	332.0	237.0	392.5	402.5	262.5	244.0	139.5	4321.0	82.5
Unmeasured Accretions			-2.0	-0.5	-8.5	+35.0	+12.0	+0.5	+1.5	-5.0	-1.0	-7.0	-5.0	-1.0	+25.0	-5.5
Diversions			0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	1.5	1.5	1.0	6.5	0.5
At Sacramento	0.1	103	47.0	32.0	894.5	1041.0	332.0	338.5	238.5	387.0	400.0	254.0	237.5	137.5	4339.5	76.5
Folsom Reservoir to Sacramento																
Total Unmeasured Accretions			-2.5	-1.5	-17.5	+21.0	+10.5	-7.0	-5.0	-25.5	-4.5	-7.0	-5.0	-3.0	-42.0	-4.0
Total Diversions			4.5	3.0	1.5	0.5	1.5	2.5	3.0	4.0	6.5	7.0	6.0	5.0	45.0	4.0
SUTTER BYPASS																
Butte Slough to Sutter Bypass	29.4	64	3.0	8.5	1158.0	2420.0	832.0	281.5	15.5	48.5	13.0	11.0	11.0	7.5	4809.5	3.0
Wadsworth Canal	25.7L	65	5.5	3.0	23.5	33.0	12.5	7.5	8.0	12.5	10.0	7.0	9.0	10.0	141.5	0.0
R. D. 1500 Drain	0.0R	66	4.5	2.0	20.0	41.5	16.0	10.0	.5	23.5	18.5	47.0	54.0	21.5	265.0	4.0
Tisdale Weir	18.9R	52	0.0	0.0	419.5	899.0	300.5	106.0	0.0	0.0	0.0	0.0	0.0	0.0	1725.0	0.0
Unmeasured Accretions			+3.5	+7.5	-1620.5	-3393.5	-1161.0	-405.0	+18.0	+31.5	+32.5	-8.0	-7.5	-31.5	-6534.0	+5.0
Diversions			2.0	1.0	0.5	0.0	0.0	0.0	3.5	16.0	18.5	22.5	24.5	7.5	96.0	2.0
Sacramento Slough	-1.0	67	14.5	20.0	NR	NR	NR	NR	44.5	100.0	55.5	34.5	42.0	NR		16.0
COLUSA BASIN DRAIN																
At Highway 20	37.0	57	22.0	22.0	83.5	146.5	60.0	18.5	37.0	76.0	44.5	45.5	58.0	59.5	673.0	24.5
Unmeasured Accretions			+2.5	-0.5	+4.0	-4.5	-0.5	+4.0	+5.0	+6.5	+9.0	+10.0	+14.0	+12.0	+61.5	+4.5
Diversions			1.5	1.0	0.5	0.0	0.0	0.0	1.0	3.0	4.0	6.0	6.5	3.5	27.0	1.5
Near College City	22.7	58	23.0	20.5	87.0	142.0	59.5	22.5	41.0	79.5	49.5	49.5	65.5	68.0	707.5	27.5
Unmeasured Accretions			+4.0	+6.0	-5.0	-142.0	-59.5	-22.5	+4.0	-1.0	+19.0	+2.0	+4.0	+8.0	-183.0	+2.0
Ridge Cut at Knights Landing	0.4R	59	0.0	0.0	72.0	NR	NR	NR	13.5	69.5	9.0	4.5	4.5	1.0		0.0
Diversions			0.5	0.5	0.5	0.0	0.0	0.0	1.0	5.5	6.5	6.5	6.5	2.0	29.5	0.5
At Knights Landing	0.0	60	26.5	26.0	9.5	0.0	0.0	0.0	30.5	8.5	53.0	40.5	48.5	73.0	326.0	29.0
Highway 20 to Outfall Gates																
Total Unmeasured Accretions			+6.5	+5.5	-1.0	-146.5	-60.0	-18.5	+9.0	+5.5	+28.0	+12.0	+18.0	+20.0	-121.5	+6.5
Total Diversions			2.0	1.5	1.0	0.0	0.0	0.0	2.0	8.5	10.5	12.5	13.0	5.5	56.5	2.0
YUBA RIVER																
At Englebright Dam	22.8	82	33.5	23.0	933.5	649.5	254.5	220.0	233.0	512.0	270.0	58.5	43.0	34.5	3245.0	33.5
Deer Creek near Smartville	21.8	83	0.5	1.0	59.0	61.5	27.0	16.0	6.0	3.5	0.5	0.5	0.5	0.5	176.5	2.0
Dry Creek near Virginia Ranch	11.0	84	0.0	0.0	54.5	49.0	27.5	9.0	4.0	4.5	1.0	0.5	0.5	0.5	151.0	0.5
Unmeasured Accretions			-0.5	+1.0	+20.0	+49.0	+28.0	+10.0	+18.0	+1.5	+7.5	+4.5	+4.5	+5.0	+148.5	+2.0
Diversions			8.0	6.0	3.0	0.0	0.0	1.0	18.0	26.5	26.0	28.5	27.5	18.0	162.5	14.0
Near Marysville	5.2	85	5.5	19.0	1064.0	809.0	337.0	254.0	243.0	495.0	253.0	35.5	21.0	22.5	3558.5	24.0

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

All figures in this table are rounded off to the nearest 500 acre-feet.
(a) Includes diversions from Yuba River below Mile 5.2.
(b) Includes diversions from Bear River below Wheatland.

TABLE 11

SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
SAN JOAQUIN RIVER AND TRIBUTARIES
1956 WATER YEAR

Item	Mileage	Record in Table No.	Quantities in Thousands of Acre-Feet												
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total	1956 Oct.
SAN JOAQUIN RIVER																
Computed Inflow to Millerton Lake		111	36.0	35.0	401.0	308.0	204.5	187.5	265.5	442.5	433.5	298.0	124.0	99.0	2834.5	91.5
Unmeasured Accretions			-1.0	-0.5	+4.0	+9.5	+4.5	-0.5	-1.0	+3.0	+0.5	-5.5	-5.0	-2.5	+5.5	-1.5
Change in Storage		112	0.0	+19.5	+309.0	-13.0	-165.0	-84.5	+52.0	+137.5	+47.5	+21.0	-171.5	-98.5	+54.0	-5.5
Madera Canal	269.63R		0.0	0.0	0.0	0.0	2.5	10.5	15.5	15.5	45.0	59.5	57.0	33.5	239.0	0.0
Friant-Kern Canal	269.63L		28.0	10.5	0.0	0.0	150.5	156.5	120.5	108.0	182.0	200.5	222.5	142.5	1321.5	50.0
Diversions			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Friant	268.13	113	7.0	4.5	96.0	330.5	221.0	104.5	76.5	184.5	159.5	11.5	11.0	19.0	1225.5	45.5
Little Dry Creek near Friant	264.0L	114	0.0	0.0	8.0	6.5	3.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	19.0	0.0
Unmeasured Accretions			-1.0	-0.5	+1.5	-12.0	0.0	-6.5	+2.5	-15.5	-1.5	+2.0	+0.5	-2.0	-32.5	-0.5
Diversions			1.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0	2.5	3.0	2.5	1.5	13.0	0.5
Near Biola	236.4	115	5.0	4.0	105.5	325.0	224.0	98.5	78.5	168.0	155.5	10.5	9.0	15.5	1199.0	44.5
Unmeasured Accretions			-4.0	-3.0	-32.5	-46.0	-26.0	-3.5	-6.0	-10.0	-0.5	-2.0	-3.0	-5.5	-142.0	-4.5
Diversions			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At Whitehouse	219.83	116	1.0	1.0	73.0	279.0	198.0	95.0	72.5	158.0	155.0	8.5	6.0	10.0	1057.0	40.0
Delta-Mendota Canal (a)			58.0	18.5	9.5	0.0	0.0	4.5	13.5	4.5	33.5	152.0	145.0	80.5	519.5	32.0
Unmeasured Accretions			-2.0	-1.5	-10.0	+13.0	+64.0	+25.0	-2.0	-6.5	-4.5	-8.0	-12.0	-9.5	+46.0	-18.5
Diversions (b)			49.5	13.5	11.0	0.0	3.0	80.0	72.0	100.0	128.0	126.0	116.0	64.5	763.5	48.0
Near Mendota	206.2	117	7.5	4.5	61.5	292.0	259.0	44.5	12.0	56.0	56.0	26.5	23.0	16.5	859.0	5.5
Unmeasured Accretions			+1.0	0.0	-16.0	-9.5	+16.0	+16.0	+4.0	-4.0	+8.5	+3.0	+2.0	+1.5	+22.5	+2.0
Diversions			8.5	4.5	3.0	0.0	0.0	16.5	15.5	17.5	26.0	29.0	25.0	18.0	163.5	7.5
Near Dos Palos	186.0	118	0.0	0.0	42.5	282.5	275.0	44.0	0.5	34.5	38.5	0.5	0.0	0.0	718.0	0.0
Fresno River near Daultone	184.0R	119	0.0	0.5	60.0	44.0	20.0	9.5	10.0	12.0	5.0	1.5	0.0	0.0	162.5	0.5
Chowchilla R. at Buchanan Dam Site	151.0R	120	0.0	0.0	79.5	39.0	16.0	7.0	8.0	7.0	1.5	0.5	0.0	0.0	158.5	0.0
Mariposa Cr. below Mariposa Res.*		122	0.0	0.0	28.0	23.0	5.0	2.0	1.5	1.0	NR	NR	NR	NR	*	*
Owens Cr. below Owens Reservoire		123	0.0	0.0	4.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0
Burns Cr. below Burns Reservoire		124	0.0	0.0	22.5	12.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	37.0	0.0
Bear Creek below Bear Reservoire		125	0.0	0.0	27.5	15.0	NR	1.5	1.0	0.5	0.0	0.0	0.0	0.0	*	0.0
Salt Slough near Los Banos		121	3.0	2.0	7.5	32.0	27.5	10.5	7.5	7.0	10.0	6.5	6.5	5.5	125.5	3.0
Unmeasured Accretions			0.0	+1.0	+9.0	-60.5	-77.5	+33.0	+32.0	+13.5	+16.0	+8.0	+6.0	+9.0	-10.5	+0.5
Diversions			0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.5	0.5	0.5	0.0	2.5	0.0
At Fremont Ford Bridge	129.5	126	3.0	3.0	59.0	254.0	225.0	87.0	39.5	55.0	64.0	14.5	12.0	14.5	830.5	9.5
Merced River near Stevinson	123.75	130	7.0	6.0	139.0	281.0	120.5	68.0	44.5	236.5	194.0	33.0	13.5	14.5	1157.5	13.0
Unmeasured Accretions			+0.5	+0.5	0.0	+176.5	+163.0	+31.0	-4.5	-6.5	+4.0	-0.5	+1.5	+2.0	+367.5	+3.5
Diversions (c)			0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0	0.5	0.5	0.5	4.0	0.0
Near Newman	123.7	131	10.0	9.5	198.0	711.5	508.5	186.0	79.0	284.5	261.0	46.5	26.5	30.5	2351.5	26.0
Merced River Slough	122.2	132	0.0	0.0	38.5	54.0	12.5	0.5	0.0	11.5	8.0	0.0	0.0	0.0	125.0	0.0
Orestimba Creek near Newman		133	0.0	0.0	11.0	8.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.0
Unmeasured Accretions			+9.0	+6.5	-108.5	-45.0	-37.0	-1.0	+26.5	-37.0	-7.5	+34.0	+22.5	+18.5	-119.0	+15.5
Diversions			1.5	0.0	0.0	0.0	0.0	6.0	7.0	8.0	11.0	12.5	11.5	6.5	64.0	1.0
Near Grayson	96.05	134	17.5	16.0	139.0	728.5	486.0	180.5	98.5	251.0	250.5	68.0	37.5	42.5	2315.5	40.5
Tuolumne River at Tuolumne City	91.0R	141	22.0	35.0	295.0	507.0	236.0	145.0	109.0	204.5	191.0	69.5	54.5	52.5	1926.0	51.5
Unmeasured Accretions			+1.0	-3.0	-39.5	+67.5	+46.5	+25.0	+48.5	+163.5	+130.0	+28.0	+19.0	+8.0	+494.5	+4.5
Diversions (d)			2.5	0.5	0.0	0.0	0.0	7.5	12.0	10.0	10.5	17.0	12.5	6.0	84.5	1.5
At Betch Natchy Crossing	82.65	142	38.0	47.5	394.5	1303.0	768.5	343.0	244.0	609.0	555.0	148.5	103.5	97.0	4051.5	95.0
Stanislaus River near Mouth	79.7R	147	7.5	10.5	283.5	271.0	118.0	60.0	151.0	294.5	175.0	54.5	11.5	12.5	1469.5	25.5
Unmeasured Accretions			+5.0	+0.0	-7.5	+89.0	+107.5	+40.0	-20.0	-41.5	+3.5	+10.5	+7.0	+5.5	+211.0	+3.0
Diversions (e)			1.5	0.5	0.0	0.0	0.0	2.5	2.5	2.5	4.5	5.5	5.0	3.0	27.5	0.5
Near Vernalis	76.7	148	49.0	63.5	670.5	1663.0	994.0	460.5	372.5	859.5	729.0	214.0	117.0	112.0	6304.5	123.0
Millerton Lake to Vernalis																
Total Unmeasured Accretions			+8.5	+5.5	-199.5	+182.5	+261.0	+158.5	+80.0	-59.0	+148.5	+75.5	+38.5	+25.0	+843.0	+10.0
Total Diversions			63.0	29.5	14.0	0.0	156.0	280.5	247.0	263.0	417.0	454.0	453.0	270.0	2683.0	109.0
MERCED RIVER																
At Exchequer		127	3.0	2.5	135.5	238.0	85.0	84.5	98.5	121.5	276.5	121.0	97.5	72.5	1538.0	6.5
Unmeasured Accretions			-2.5	-2.5	+20.5	+26.5	*	-5.0	-9.5	+1.0	-2.0	-6.5	-4.5	-6.0	+14.0	-4.0
Merced Irrigation District Canals	46.0		0.5	0.0	0.0	0.0	0.0	37.5	69.0	82.0	104.5	108.0	92.0	66.0	559.5	26.
Below Snelling	42.1	128	0.0	0.0	156.0	264.5	94.5	42.0	20.0	240.5	170.0	6.5	1.0	.5	995.5	0.5
Unmeasured Accretions			+3.0	+3.5	+1.0	+11.5	+5.0	+11.5	+8.5	+4.0	+16.0	+13.5	+5.0	+6.5	+101.0	+7.0
Diversions			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.0	1.5	1.0	6.0	0.0
At Cressey	27.6	129	3.0	3.5	169.0	276.0	99.5	53.5	28.5	244.5	184.5	18.0	4.5	6.0	1090.5	6.5
Unmeasured Accretions			+5.0	+4.0	-29.5	+5.0	+21.0	+15.5	+17.0	-6.5	+12.0	+17.5	+11.5	+10.0	+81.5	+7.0
Diversions			1.0	.5	0.5	0.0	0.0	1.0	1.0	1.5	2.5	2.5	2.5	1.5	14.5	0.5
Near Stevinson	4.6	130	7.0	6.0	139.0	281.0	120.5	68.0	44.5	216.5	194.0	33.0	13.5	14.5	1157.5	13.0
Exchequer to Stevinson																
Total Unmeasured Accretions			+6.5	+5.0	+4.0	+43.0	+15.5	+22.0	+10.0	-1.5	+20.0	+24.5	+12.0	+10.5	+201.5	+9.0
Total Diversions			1.5	.5	0.5	0.0	0.0	38.5	70.0	84.5	108.5	112.5	96.5	68.5	580.0	26.5

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

All figures in this table are rounded off to the nearest 500 acre-feet.
* Not included in computations of unmeasured accretions
(a) Diversions from Delta-Mendota Canal to Mendota Pool as computed by U. S. Bureau of Reclamation
(b) Includes diversions from Fresno Slough and James Bypass
(c) Includes diversions from Merced River below Stevinson
(d) Includes diversions from Tuolumne River below Tuolumne City
(e) Includes diversions from Stanislaus River below Mile 1.9

TABLE 11

SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
SAN JOAQUIN RIVER AND TRIBUTARIES (Continued)
1956 WATER YEAR

Item	Mileage	Record in Table No.	Quantities in Thousands of Acre-Feet												Water Year Total	1956 Oct.
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		
TUOLUMNE RIVER																
Above La Grange Dam		135	27.0	40.5	310.5	479.0	188.5	203.5	214.5	388.5	381.0	223.0	171.5	128.0	2755.5	56.5
Unmeasured Accretions			0.0	+0.5	-21.0	-29.0	-15.0	-5.0	+0.5	+14.5	+14.5	+6.0	+5.5	0.0	-28.5	-1.5
Modesto Irrigation District Canal	53.5R		9.0	5.5	8.5	0.0	0.0	30.5	57.5	56.5	71.0	73.5	57.0	38.0	406.5	14.5
Turlock Irrigation District Canal	53.5L		11.0	15.0	14.5	0.0	0.0	63.0	63.5	83.0	104.5	116.5	84.5	61.5	617.0	13.5
At La Grange Bridge	50.5	136	7.0	20.5	266.5	450.0	173.5	105.0	94.5	263.5	220.0	39.0	35.5	28.5	1703.5	27.0
Unmeasured Accretions			+3.0	+3.0	+6.0	+17.5	+14.0	+1.5	-5.5	-1.5	+14.0	+9.5	+3.0	+4.5	+69.0	+3.0
Diversions			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At Roberts Ferry Bridge	39.9	137	10.0	23.5	272.5	467.5	187.5	106.5	89.0	262.0	234.0	48.5	38.5	33.0	1772.5	30.0
Unmeasured Accretions			+2.5	+2.0	+3.5	-18.5	+16.0	+9.0	+13.5	+4.0	+0.5	+1.5	+1.0	+3.0	+38.0	+5.0
Diversions			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At Bickman Bridge	31.7	138	12.5	25.5	276.0	449.0	203.5	115.5	102.5	266.0	234.5	50.0	39.5	36.0	1810.5	35.0
Dry Creek near Modesto	16.5R	139	1.5	1.5	39.0	40.0	5.5	4.0	6.0	5.0	4.5	4.5	4.5	3.5	119.5	3.5
Unmeasured Accretions			+5.5	+6.0	-9.5	+6.0	+1.5	+7.5	+11.5	+7.0	+7.5	+10.5	+10.5	+7.0	+71.0	+7.0
Diversions (a)			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	2.0	0.0
At Modesto	16.1	140	19.5	33.0	305.5	495.0	210.5	127.0	120.0	278.0	246.0	64.5	54.0	46.0	1999.0	45.5
Unmeasured Accretions			+3.0	+2.0	-10.5	+12.0	+25.5	+18.0	-11.0	-73.0	-54.5	+5.5	+6.0	+7.0	-70.0	+6.0
Diversions			0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	3.0	0.0
At Tuolumne City	3.35	141	22.0	35.0	295.0	507.0	236.0	145.0	109.0	204.5	191.0	69.5	59.5	52.5	1926.0	51.5
Above La Grange to Tuolumne City																
Total Unmeasured Accretions			+14.0	+13.5	-31.5	-12.0	+42.0	+31.0	+9.0	-49.0	-18.0	+33.0	+26.0	+21.5	+79.5	+19.5
Total Diversions			20.5	20.5	23.0	0.0	0.0	93.5	120.5	140.0	176.5	191.0	142.5	100.5	1028.5	28.0
STANISLAUS RIVER																
Below Melones Power House		143	8.5	7.5	254.5	263.0	103.0	115.0	199.0	385.5	259.5	92.5	84.5	56.5	1829.0	29.0
Unmeasured Accretions			+3.0	+3.5	+15.5	+32.5	+11.5	+6.0	+12.0	+1.0	+13.5	+7.0	+5.0	+0.5	+111.0	-0.5
Oakdale Canal (b)	58.6L		0.0	0.5	0.0	0.0	0.0	14.5	16.5	28.0	30.5	30.5	28.5	16.0	165.0	5.0
South San Joaquin Canal (b)	58.6R		7.5	2.5	3.5	0.0	12.0	34.5	51.5	55.5	68.0	21.5	58.5	39.5	354.5	10.0
Diversions			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
At Orange Blossom Bridge	47.0	144	4.0	8.0	266.5	295.5	102.5	72.0	143.0	303.0	174.5	47.5	2.5	1.5	1420.5	13.5
Unmeasured Accretions			+0.5	-2.0	+32.0	-3.5	+5.0	+14.5	+2.5	+4.0	+3.5	+6.5	+3.5	+3.0	+69.5	+4.0
Diversions			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	1.5	0.0
At Riverbank	33.6	145	4.5	6.0	298.5	292.0	107.5	86.5	145.5	307.0	177.5	53.5	5.5	4.5	1488.5	17.5
Unmeasured Accretions			+4.5	+4.0	-23.0	+25.5	+10.0	-6.0	+3.0	+6.0	+11.0	+9.0	+7.5	+6.5	+58.0	+7.0
Diversions			0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0	0.5	4.0	0.5
At Ripon	15.7	146	8.5	10.0	275.5	317.5	117.5	80.5	148.0	312.5	188.0	62.0	12.0	10.5	1542.5	24.0
Unmeasured Accretions			+2.0	+1.0	+8.0	-46.5	+0.5	+2.0	+5.5	-13.5	-6.0	-0.5	+6.0	+6.5	-35.0	+3.5
Diversions			3.0	0.5	0.0	0.0	0.0	2.5	2.5	4.5	7.0	7.0	6.5	4.5	38.0	2.0
Near Mouth	1.9	147	7.5	10.5	283.5	271.0	118.0	80.0	151.0	294.5	175.0	54.5	11.5	12.5	1469.5	25.5
Melones Power House to Mouth																
Total Unmeasured Accretions			+10.0	+6.5	+32.5	+8.0	+27.0	+16.5	+23.0	-2.5	+22.0	+22.0	+22.0	+16.5	+203.5	+14.0
Total Diversions			11.0	3.5	3.5	0.0	12.0	51.5	71.0	88.5	106.5	60.0	95.0	60.5	563.0	2.5
MORMON SLOUGH																
At Bellota	0.05	159	0.0	0.0	NR	NR	15.5	10.5	0.0	2.0	4.0	4.0	3.5	1.5		0.0
Unmeasured Accretions			0.0	0.0	+115.0	+125.0	0.0	-1.0	0.0	-1.5	-2.5	-2.5	-2.0	-1.0	+229.5	0.0
Diversions			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0	1.0	0.5	4.0	0.0
Stockton Diverting Canal at Stockton	17.6	160	0.0	0.0	115.0	125.0	15.5	9.5	0.0	0.0	0.5	0.5	0.5	0.0	266.5	0.0
CALAVERAS RIVER																
At Jenny Lind	36.9	156	0.0	0.0	132.0	114.0	18.0	8.0	0.5	5.0	9.5	11.5	10.5	5.0	314.0	0.5
Unmeasured Accretions			0.0	0.0	-132.0	-103.5	0.0	+2.5	-0.5	-0.5	0.0	+0.5	+10.0	0.0	-223.5	-0.5
Mormon Slough at Bellota		159	0.0	0.0	NR	NR	15.5	10.5	0.0	2.0	4.0	4.0	3.5	1.5		0.0
Diversions			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.5	3.5	0.0
At Bellota	25.25	157	0.0	0.0	NR	10.5	2.5	0.0	0.0	2.5	4.5	7.0	7.0	3.0		0.0
Unmeasured Accretions			0.0	0.0	+0.0	-1.0	0.0	0.0	0.0	-1.5	-1.0	-2.0	-3.0	-0.5	-3.0	0.0
Diversions			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.0	3.5	3.0	1.5	11.5	0.0
Near Stockton	8.9	158	0.0	0.0	6.0	9.5	2.5	0.0	0.0	0.5	0.5	1.5	1.0	1.0	22.5	0.0
Jenny Lind to Stockton																
Total Unmeasured Accretions			0.0	0.0	-126.0	-104.5	0.0	+2.5	-0.5	-2.0	-1.0	-1.5	+7.0	-0.5	-226.5	-0.5
Total Diversions			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.0	4.5	4.0	2.0	15.0	0.0
MOKELUMNE RIVER																
At Lancha Plana		163	23.0	19.5	152.0	208.5	94.0	86.5	89.0	181.5	154.0	50.5	33.5	33.5	1125.5	36.5
Near Clements	35.35	164	23.0	20.5	160.5	217.0	93.0	82.0	85.0	179.5	147.5	48.0	29.5	29.5	1115.0	34.5
Unmeasured Accretions			-3.0	-0.5	-34.0	-6.0	+11.5	+6.0	+3.5	-13.5	+4.0	+4.0	0.0	-1.0	-29.0	-2.5
Diversions			10.0	3.5	0.0	0.0	0.0	4.0	12.0	16.0	24.0	27.0	24.0	16.0	136.5	9.0
At Woodbridge	19.2	165	10.0	16.5	126.5	211.0	104.5	84.0	76.5	150.0	127.5	25.0	5.5	12.5	949.5	23.0
COSUMNES RIVER																
At Michigan Bar	34.3	167	0.5	2.0	196.0	195.5	66.5	53.0	48.0	76.0	20.5	5.0	2.0	1.5	666.5	3.0
Unmeasured Accretions			0.0	-1.0	+57.0	+39.5	+6.0	+2.5	+1.0	+1.0	+1.0	+0.5	0.0	0.0	+107.5	-1.0
Diversions			0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	1.5	8.0	0.5
At McConnell	10.7	168	0.0	1.0	253.0	235.0	72.5	55.5	49.0	77.0	19.5	3.5	0.0	0.0	766.0	1.5

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

All figures in this table are rounded off to the nearest 500 acre-feet.
(a) Includes diversions from Dry Creek below Modesto.
(b) Records from U. S. Geological Survey.

TABLE 12

SUMMARY OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS
TULE RIVER AND TULARE LAKE BASIN
1956 WATER YEAR

Item	Mileage	Record in Table No.	Quantities in Thousands of Acre-Feet												
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water Year Total	1956 Oct.
									TULE RIVER							
Near Porterville	-1.0	175	0.0	1.0	40.5	33.0	17.0	12.0	17.5	24.0	8.5	2.0	0.5	0.5	156.5	1.5
Unmeasured Accretions			0.0	0.0	+10.5	+12.5	+4.0	+4.0	+5.5	+6.0	+3.5	0.0	+0.5	-0.5	+54.0	+0.5
Diversions			0.0	0.0	0.5	0.0	0.0	0.5	1.0	1.0	1.0	1.0	0.5	0.0	5.5	0.5
At Worth Bridge	2.2	174	0.0	1.0	56.5	45.5	21.0	15.5	22.0	31.0	10.5	1.0	0.5	0.0	204.5	1.5
Friant-Kern Canal to Tule River	11.3	176	0.0	0.0	1.5	0.0	0.5	7.5	1.5	5.0	25.5	28.5	34.0	18.0	122.0	8.0
Friant-Kern Canal to Porter Sloughs		177	0.0	0.0	0.0	0.0	1.0	2.5	0.0	0.5	1.0	0.0	0.5	0.5	6.0	0.5
Unmeasured Accretions			0.0	-0.5	-34.0	-19.0	-8.5	-16.5	-16.0	-19.5	-20.5	-28.5	-34.5	-18.0	-215.5	-8.5
Diversions			0.0	0.5	2.5	6.5	5.0	6.5	7.0	14.5	10.0	1.0	0.0	0.0	53.5	1.0
At Turnbull Station	39.0	178	0.0	0.0	21.5	20.0	8.0	0.0	0.5	2.0	5.5	0.0	0.0	0.0	57.5	0.0
									INFLOW TO TULARE LAKE BASIN							
South Fork Kings River below Empire Weir #2		171	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	10.5	15.0	1.5	31.5	0.0
Cross Creek below Lakeland Canal #2		172	0.0	0.0	9.0	14.5	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	24.5	0.0
Tule River at Turnbull Station		178	0.0	0.0	21.5	20.0	8.0	0.0	0.5	2.0	5.5	0.0	0.0	0.0	57.5	0.0
Total Measured Inflow to Tulare Lake Bed			0.0	0.0	30.5	34.5	8.0	0.0	0.5	3.0	10.0	10.5	15.0	1.5	113.5	0.0

All figures in this table are rounded off to the nearest 500 acre-feet

• Not included in computations of unmeasured accretions

TABLE 13

INFLOW TO SHASTA LAKE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	3230	3530	5040	20430	13530	16810	14020	10890	8650	3220	5400	4090
2	3050	3700	4690	17650	12370	15600	13850	11130	8220	5680	4080	2910
3	3370	3740	4810	14930	11830	15900	12820	11590	7600	6010	4400	3170
4	3400	3690	4060	19410	10690	16990	12330	14510	8300	5850	2350	4150
5	3570	3790	6830	24230	10780	17140	11930	15070	7450	5410	2680	4390
6	3800	3730	7660	27480	10610	16100	12300	16060	7660	5570	4070	4480
7	2720	3450	5660	50540	10750	15060	12360	14950	7480	3550	5000	4300
8	1900	3770	7020	40020	9750	14280	11630	13350	7510	3050	4680	3660
9	1600	3800	8350	27450	9860	13850	12320	12850	7150	4610	4630	2180
10	4010	3650	6220	26540	9410	14000	13530	15440	7230	5410	4540	3900
11	3560	3650	5520	26340	9430	12990	12960	15200	6930	4860	3250	4380
12	3650	3600	5800	23630	9380	12900	12570	12760	6660	4480	2230	4840
13	4060	4740	5490	25120	9240	12240	12090	12320	6470	4800	4440	4460
14	3200	3190	5170	39970	8800	11910	11900	11990	6490	3930	4540	4300
15	2430	2970	5410	67700	8860	11490	11970	11570	6060	3320	5190	2380
16	3730	4150	7050	49460	8630	11660	11640	12040	3850	4870	4900	2960
17	3470	3500	9200	35470	8760	11490	12000	11920	4250	4590	4710	4120
18	3800	4830	34240	28230	8400	11920	11820	12120	6120	5140	2540	4620
19	3840	8000	75240	26030	12710	12680	12160	12130	6980	5560	2120	4980
20	3760	17980	92250	26760	29760	12830	12560	12100	6630	5580	4370	4490
21	3760	9200	119820	26150	90260	13400	12290	11640	6610	3340	4720	4180
22	3670	5290	140880	29890	87880	14130	12780	11410	6290	2470	4740	2340
23	3530	6690	100560	32330	55780	14810	14090	11380	5140	4400	4890	2660
24	3860	5170	51500	28070	36370	15780	13210	9900	3640	5190	3920	5020
25	3980	5240	45370	25510	32210	16460	12700	9850	5370	5300	2220	4330
26	3670	4550	47710	25430	24910	16480	12110	9830	6170	5100	1900	3970
27	3610	4480	39790	26560	20540	17230	11500	8090	6130	4360	4410	4470
28	3340	4760	29780	22550	19490	16560	11420	8990	6070	2890	4330	4650
29	2020	4490	24050	20230	18400	15720	a 11170	8790	5900	2500	4450	4240
30	2180	4620	19460	17110		15150	10960	9420	4370	4050	4540	b 2630
31	3920	—	17990	15180	=	14400	—	8710	—	5350	4560	—
Mean	3345	4932	30407	28594	21013	14450	12366	11871	6446	4530	4026	3908
Ac-Ft	205670	293450	1869660	1758150	1208710	888520	734920	729920	383560	278560	247540	232780

Maximum Discharge			Total Runoff in Acre - Feet		
Water Year Of Record	Daily mean 140,880 c.f.s. December 22, 1955	Daily mean 140,880 c.f.s. December 22, 1955	1955 - Calendar Year	1955 - 56 Water Year	8831440

These quantities are the daily mean second-feet inflow to Shasta Lake as computed by the U. S. Bureau of Reclamation, taking into account change in storage, releaae, spill, precipitation, and evaporation and are representative of the natural flow passing the dam site if the dam had not been constructed. Drainage area is 6665 square miles (excluding Goose Lake Basin). Period of record 1944 to date.

(a) 23-hour day
(b) 25-hour day

TABLE 14

DAILY CONTENT OF SHASTA LAKE

Date	Storage at end of day in thousands of acre-feet											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	2450.5	2329.2	2361.0	3391.2	3347.4	3520.9	3905.7	4406.5	4502.2	4414.1	4118.2	3816.4
2	2445.8	2326.6	2364.3	3336.5	3336.5	3501.7	3923.5	4420.8	4501.3	4409.1	4108.5	3805.8
3	2441.1	2323.9	2366.6	3279.7	3330.4	3496.5	3939.8	4435.4	4500.4	4404.4	4099.5	3795.8
4	2436.8	2321.2	2368.9	3247.3	3328.0	3502.0	3955.0	4455.9	4497.8	4399.8	4086.4	3787.8
5	2433.0	2318.2	2376.8	3240.1	3330.4	3515.8	3970.2	4475.1	4495.1	4394.3	4074.2	3780.1
6	2429.3	2316.3	2386.3	3241.3	3332.1	3528.7	3984.2	4491.9	4493.0	4389.0	4064.5	3772.5
7	2423.1	2313.1	2391.1	3288.1	3338.9	3541.3	4000.3	4500.7	4491.9	4378.9	4056.5	3764.3
8	2414.1	2310.0	2400.0	3313.9	3341.6	3553.2	4014.3	4499.6	4490.7	4367.8	4048.2	3755.3
9	2407.3	2307.4	2410.6	3305.7	3345.2	3564.7	4030.0	4498.4	4488.9	4359.7	4039.3	3743.4
10	2403.9	2304.4	2416.8	3286.9	3347.9	3576.6	4048.5	4503.7	4488.0	4352.5	4030.5	3735.0
11	2399.8	2301.3	2421.9	3267.7	3351.6	3587.4	4067.3	4506.7	4487.4	4343.8	4019.0	3727.4
12	2396.5	2297.9	2427.4	3244.9	3359.6	3596.6	4084.8	4506.1	4486.8	4332.2	4005.5	3720.9
13	2394.0	2297.8	2432.6	3238.0	3359.1	3604.8	4099.5	4507.0	4485.1	4322.1	3997.0	3713.5
14	2389.8	2294.0	2436.6	3294.2	3358.4	3612.4	4116.3	4506.7	4483.9	4310.6	3987.7	3705.7
15	2384.5	2289.8	2441.5	3409.1	3360.3	3619.6	4133.1	4133.1	4481.5	4298.2	3980.3	3694.2
16	2381.8	2289.8	2449.0	3455.7	3362.8	3629.7	4147.9	4505.8	4475.1	4288.1	3972.4	3684.0
17	2378.3	2288.3	2461.6	3435.1	3368.2	3639.5	4163.7	4505.8	4469.5	4278.0	3964.0	3675.7
18	2375.8	2289.1	2525.4	3431.9	3373.1	3651.9	4179.2	4505.8	4466.8	4268.3	3951.4	3668.7
19	2373.1	2297.4	2668.5	3427.7	3387.0	3664.0	4195.9	4505.8	4466.5	4259.7	3938.4	3662.5
20	2370.4	2326.7	2845.3	3424.7	3433.4	3677.8	4214.6	4502.2	4465.0	4251.4	3928.9	3655.5
21	2367.7	2336.8	3077.0	3427.2	3589.9	3692.1	4232.5	4499.0	4463.9	4238.3	3920.8	3647.5
22	2364.8	2339.9	3342.6	3430.9	3715.1	3708.3	4251.7	4498.1	4461.5	4224.0	3912.5	3635.6
23	2361.4	2344.7	3512.0	3439.1	3732.9	3725.8	4273.4	4496.6	4457.4	4212.6	3904.6	3624.8
24	2359.2	2347.7	3557.8	3439.1	3707.3	3745.0	4293.8	4495.7	4450.1	4203.5	3894.7	3618.4
25	2356.8	2350.2	3592.0	3433.9	3701.2	3766.1	4312.6	4497.5	4446.3	4194.2	3881.3	3610.6
26	2353.7	2351.6	3617.1	3428.4	3652.7	3786.5	4330.2	4496.3	4443.9	4184.6	3867.6	3602.2
27	2350.8	2352.7	3603.5	3425.2	3601.2	3808.5	4347.0	4496.6	4441.0	4173.8	3858.5	3594.8
28	2346.8	2354.3	3569.8	3414.3	3574.9	3829.4	4363.2	4498.1	4436.6	4160.0	3850.2	3587.6
29	2340.7	2355.8	3525.4	3398.3	3548.7	3848.1	4380.3	4500.7	4431.6	4145.4	3841.1	3579.7
30	2334.9	2357.1	3472.4	3379.2		3866.2	4393.1	4505.2	4423.7	4134.2	3832.9	3568.5
31	2332.3	—	3416.1	3362.0	=	3884.5	—	4502.2	—	4125.2	3824.9	—
Monthly Change	-123.0	+24.0	+1059.0	-54.1	+186.7	+335.8	+508.6	+109.1	-78.5	-298.5	+300.3	-256.4

Annual gain or loss in storage: Calendar Year +221,900; Water Year +1,113,200 Acre-Feet
Differences in storage 1955 to 1956: Maximums +686,100; Minimums -167,000 Acre-Feet

Period of record 1944 to date. Records computed by U. S. Bureau of Reclamation

TABLE 15

SACRAMENTO RIVER AT KESWICK

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	5640	5210	3580	34600	21300	31000	4420	4010	8690	8030	8620	8070
2	5640	4770	3200	46600	18300	25800	4400	4000	8690	8000	8680	8090
3	5640	5110	3150	45200	15200	19600	4310	4000	8800	8030	8690	8070
4	5620	5140	3140	36500	12400	14100	4320	4000	8710	7970	8720	8100
5	5620	5140	3210	28900	10100	9910	4340	6070	8790	8020	8710	8100
6	5780	5120	3290	28100	9840	9840	4310	8020	8720	8130	8710	8100
7	5820	5140	3180	28600	8300	8990	4240	10500	7970	8460	8720	8100
8	5840	5070	3170	28000	8300	8080	4400	14300	7950	8490	8720	8100
9	5780	4970	3150	31400	8300	8080	4280	13500	8030	8510	8760	8100
10	5820	5190	3140	37000	8290	8050	4000	12500	7490	8740	8740	8100
11	5840	4980	3130	36900	8240	8020	4000	14000	7110	9570	8740	8110
12	5360	4960	3120	35800	8240	8020	4000	13500	7120	9600	8760	8100
13	5240	4940	3110	29600	8190	8020	3990	12100	7140	9590	8760	8100
14	5260	5000	3110	14000	8150	7980	4000	12000	7140	9570	8760	8110
15	5240	4980	3120	12300	8160	7890	4010	12100	7140	9540	8770	8110
16	5240	4270	3110	26300	7710	7040	4000	12000	7120	9560	8720	8110
17	5240	4280	3140	46800	6260	6150	4010	12000	7120	9560	8740	8100
18	5240	4010	3940	31100	6260	6160	4000	12000	7190	9560	8740	8100
19	5240	4070	8280	28700	6390	6200	3760	12800	7200	9560	8760	8100
20	5260	4160	6680	29100	9890	6180	3000	13900	7190	9570	8740	8100
21	5220	4080	9570	25700	16800	6150	3000	13000	7180	9560	8740	8100
22	5240	4110	12200	28600	27700	6100	3000	12000	7180	9560	8740	8100
23	5240	4180	17100	29100	48600	6120	3000	12000	7160	9600	8760	8100
24	5280	4170	29800	29000	51200	6110	3000	10000	7160	9590	8770	8130
25	5240	4130	29600	29000	36800	6180	3000	10000	7180	9600	8740	8130
26	5260	4100	35900	29000	50300	6000	3000	9530	7180	9600	8720	8130
27	5270	4090	48400	29400	48400	6000	3000	7990	7410	9600	8760	8130
28	5260	4150	48300	29000	33800	6000	3000	8000	8040	9600	8790	8110
29	5240	4040	48000	28600	32000	6000	3000	8000	8040	9590	8550	8110
30	5210	3690	47200	27500		5930	3750	8540	8030	9600	8490	8110
31	5210	—	46900	24800	—	5120	—	8980	—	9480	8300	—
Mean	5420	4575	14380	30490	18740	9059	3751	10170	7662	9143	8707	8104
Ac-Ft	333300	272200	884500	1875000	1078000	557000	223200	625500	455900	562200	535400	482200

Maximum Discharge	Water Year Of Record	53,800 c.f.s. February 24, 1956 186,000 c.f.s. February 28, 1940	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	5287000 7864000

U. S. Geological Survey and Department of Water Resources cooperative station located at Mile 250.5R above Sacramento. These flows include relesses from Shasta Reservoir. Drainage area is approximately 6,710 square miles (excluding Goose Lake Basin). Period of record October 1938 to date. Records computed by U. S. Geological Survey.

TABLE 16

SACRAMENTO RIVER NEAR REDDING

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	5150	4860	3800			*32300	4130	3860	8640	7720	8320	8060
2	5110	5040	3300			27800	4070	3820	8670	7740	8350	8090
3	5110	5040	3280			20900	4210	3840	8700	7720	8410	8060
4	5130	5020	3280			15000	4210	3960	8670	7720	8410	8060
5	5130	4970	3610			10400	4250	5640	8700	7720	8410	8060
6	5150	4970	4940			10200	4250	8120	8700	7770	8440	8060
7	5390	5040	3390			9340	4170	10400	7860	8150	8440	8060
8	5440	5110	3470			8180	4130	14500	7830	8180	8480	8090
9	5350	5060	3510			8180	3940	13800	7830	8150	8480	8090
10	5440	5080	3410			8150	3610	12600	7490	8440	8480	8030
11	5490	5080	3380			8060	3740	14300	6910	9300	8510	8030
12	5250	5060	3360	N	N	8060	3760	13700	6880	9370	8510	8060
13	4880	5130	3340	O	O	8060	3760	12900	6880	9370	8540	8090
14	4840	5130	3340			8000	3780	12300	6940	9340	8570	8030
15	4820	5200	3340	R	R	8030	3760	12300	6910	9300	8570	8030
16	4860	4620	3380	E	E	7110	3780	12200	6880	9340	8600	8060
17	4860	4570	3550	C	C	6180	3780	12100	6860	9340	8570	8030
18	4860	4380	4560	O	O	6130	3800	12100	6940	9340	8600	8030
19	4860	4380	9810	R	R	6210	3610	12800	6940	9300	8640	8060
20	4880	4930	7430	D	D	6180	2630	13900	6910	9300	8640	8030
21	4930	4440	*10200			6210	2690	13200	6880	9300	8670	8030
22	4880	4440	*18000			6160	2690	12100	6910	9300	8640	8030
23	4860	4530	*24000			6130	2740	12100	6880	9340	8730	8060
24	4900	4360	*31000			6130	2740	10200	6860	9300	8700	8090
25	4900	4400	*31000			6100	2770	10200	6860	9300	8700	8060
26	4950	4380	*37500			6030	2770	9620	6880	9300	8700	8120
27	4930	4360	*48000			6180	2790	7920	7020	9340	8730	8090
28	5000	4380	*48100			6180	2810	7920	7770	9300	8730	8030
29	5000	4290	*47700			6030	2770	7800	7770	9270	8540	8060
30	5040	3880	*46500			5870	3390	8260	7740	9300	8480	8030
31	4970	—	*49200		—	5150	—	8700	—	9210	8350	—
Mean	5014	4438	15140			9311	3518	10230	7457	8867	8546	8057
Ac-Ft	310100	281900	930800			572500	209300	629100	443700	545200	525500	479400

Maximum Discharge	Water Year Of Record		Total Runoff in Acre - Feet	1955 - Calendar Year 5158000 1955 - 56 Water Year

Department of Water Resources station located at Mile 240.7 above Sacramento, below the diversion dam of Anderson-Cottonwood Irrigation District. It is also known as "Sacramento River above Churn Creek Pumps". Period of record 1945 to 1952 and March 1954 to date.

* Estimated

TABLE 17

CLEAR CREEK NEAR IGO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	22	32	120	1440	949	1130	535	378	217	85	38	24
2	21	34	125	1210	858	1070	510	373	202	91	36	23
3	22	34	105	1000	794	1040	485	378	198	93	39	23
4	22	34	93	1250	752	1030	470	410	191	91	40	22
5	22	37	232	1480	710	970	465	415	184	87	40	22
6	22	39	552	1900	666	886	465	500	180	85	40	21
7	22	37	271	5410	638	818	465	545	173	80	40	20
8	22	35	223	3480	606	782	460	495	166	78	36	21
9	22	34	347	2220	580	752	465	460	162	76	35	23
10	25	32	260	2180	555	734	475	480	152	74	33	25
11	30	32	216	2410	540	710	550	475	146	70	30	26
12	29	33	223	1980	525	682	530	440	142	69	29	27
13	27	43	220	1880	510	666	510	415	136	69	31	28
14	26	51	202	4200	495	650	485	391	136	76	31	28
15	26	50	190	7100	480	633	475	373	133	72	31	27
16	26	60	206	5320	460	622	455	364	130	67	30	27
17	25	62	287	3390	450	622	445	350	123	62	30	26
18	25	103	2950	2330	435	644	440	350	117	56	29	26
19	26	200	8100	1890	537	655	440	337	133	53	28	29
20	28	799	6860	1880	4120	650	450	324	130	52	28	35
21	30	436	10200	1810	13300	633	465	306	115	50	28	35
22	30	186	14500	1830	7380	644	470	296	106	47	27	31
23	28	190	7310	2060	4830	638	470	292	101	46	26	26
24	28	165	3740	1860	2970	650	470	278	96	44	26	24
25	28	133	3660	1760	2460	672	465	261	93	43	26	23
26	30	115	3670	1780	1890	655	455	253	89	42	24	22
27	30	117	2420	1960	1530	616	435	241	85	43	25	23
28	31	125	1740	1680	1380	590	415	237	89	40	25	22
29	31	125	1350	1410	1270	565	396	229	85	40	24	22
30	30	112	1110	1210		560	386	233	82	39	23	22
31	31	—	942	1070	—	550	—	229	—	39	24	—
Mean	26.4	116	2336	2335	1816	726	467	358	136	63.2	30.7	25.1
Ac-Ft	1620	6910	143700	143600	104500	44670	27770	22030	8120	3890	1890	1490

Maximum Discharge		Total Runoff in Acre - Feet	
Water Year	24,500 c.f.s. December 21, 1955	1955 - Calendar Year	254100
Of Record	24,500 c.f.s. December 21, 1955	1955 - 56 Water Year	510200

U. S. Geological Survey and U. S. Corps of Engineers cooperative station located 10.5 miles above mouth. Drainage area is 228 square miles. Clear Creek is a west-side tributary to the Sacramento River at Mile 237.1R above Sacramento. Period of record October 1940 to date. Records computed by U. S. Geological Survey.

TABLE 18

COW CREEK NEAR MILLVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	28	54	364	2470	1190	956	514	550	532	143	48	46
2	30	54	398	1960	1080	872	482	540	500	137	51	44
3	26	58	305	1440	1000	836	464	586	482	130	58	49
4	28	65	291	2000	938	1430	447	1530	478	128	60	48
5	32	72	2580	2810	884	1260	447	2390	442	128	60	39
6	24	77	9210	2040	818	878	451	2820	421	120	58	43
7	26	71	1420	6320	767	784	455	2600	401	114	58	45
8	33	67	1160	3910	718	745	464	1640	384	114	51	46
9	36	64	3370	2340	680	706	451	1310	376	112	53	41
10	44	61	1060	3370	655	660	486	1840	364	99	48	46
11	55	65	701	2320	635	625	532	2880	349	88	48	39
12	50	71	568	1510	620	586	554	1500	326	88	48	48
13	43	93	468	4150	600	576	581	1190	307	94	52	52
14	41	124	401	15000	576	558	563	1020	318	108	46	56
15	40	126	345	22600	550	536	518	908	329	108	45	56
16	40	152	800	5980	509	522	491	848	296	95	46	52
17	38	168	4000	3500	522	518	491	818	269	84	44	59
18	37	264	6000	2770	514	518	478	794	253	71	51	62
19	43	629	9000	2740	550	518	504	842	272	71	51	85
20	53	7230	5400	6060	758	518	532	812	293	79	52	94
21	49	3350	3500	4270	2500	518	568	800	262	76	55	85
22	49	635	8880	7400	8000	518	568	772	237	77	55	74
23	52	1030	12400	5300	3230	518	605	767	222	68	52	68
24	49	1120	4330	3360	1920	532	645	723	205	62	45	65
25	48	567	2790	4430	1640	554	635	675	194	53	49	56
26	67	378	8000	4890	1430	563	650	660	180	55	45	56
27	68	312	5000	3180	1220	536	625	625	170	60	46	58
28	67	268	2570	2410	1100	514	605	581	146	62	49	60
29	64	234	1840	1890	1160	504	581	563	143	62	46	64
30	62	212	1520	1600		514	558	600	135	64	44	56
31	61	—	1360	1360	—	536	—	572	—	56	48	—
Mean	44.6	589	3227	4367	1268	658	532	1121	310	90.5	50.4	56.4
Ac-Ft	2740	35050	198400	268500	72920	40480	31630	68940	18420	5570	3100	3360

Maximum Discharge		Total Runoff in Acre - Feet	
Water Year	33,000 c.f.s. January 15, 1956	1955 - Calendar Year	387900
Of Record	45,200 c.f.s. December 27, 1951	1955 - 56 Water Year	749100

U. S. Geological Survey and U. S. Bureau of Reclamation cooperative station located 4.2 miles southwest of Millville. Drainage area is 427 square miles. Cow Creek is an east-side tributary to the Sacramento River at Mile 228.8L above Sacramento. Period of record October 1949 to date. Records computed by U. S. Geological Survey.

TABLE 19

SACRAMENTO RIVER AT BALLS FERRY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	5180	5300	4350	37600	24500	32700	5590	4830	9360	8050	8760	7960
2	5270	5080	4020	46000	21500	28500	5300	4710	9360	7990	8590	7960
3	5230	5110	3810	44600	18400	23000	5350	4850	9300	8020	8620	7940
4	5250	5110	3760	41100	15600	18900	5300	6010	9270	7990	8590	7940
5	5230	5110	7910	36400	12600	14000	5250	9030	9270	8020	8680	7910
6	5250	5110	20700	31600	12600	13000	5270	12200	9270	8020	8650	7910
7	5470	5110	6310	41000	10300	11900	5180	13500	8440	8440	8650	7910
8	5490	5200	5370	36900	10100	10600	5150	16600	8330	8440	8650	7940
9	5470	5180	9480	35900	9980	10300	4920	15700	8270	8440	8620	7880
10	5510	5150	5590	43900	9830	10200	4710	14900	8020	8470	8620	7880
11	5560	5180	4830	41800	9740	10000	4900	18300	7350	9590	8560	7910
12	5640	5150	4500	39500	9770	9920	5110	16100	7330	9620	8650	7910
13	5030	5370	4300	37900	9620	9800	5110	14200	7270	9680	8650	7960
14	4960	5390	4170	51200	9500	9740	5080	13800	7440	9680	8650	7910
15	4920	5420	4100	55300	9390	9680	4940	13600	7410	9680	8650	7940
16	4960	4920	6180	37600	9240	8800	4900	13200	7350	9650	8650	7940
17	4920	4800	12100	48700	7550	7910	4870	13100	7300	9680	8650	7910
18	4940	4800	21100	39300	7460	7720	4800	13100	7350	9680	8650	7880
19	5010	5200	33200	33200	7850	7690	4760	13500	7410	9650	8680	7940
20	5010	13900	26000	38200	17200	7690	3930	14800	7490	9650	8710	7940
21	5030	11800	22700	32900	38800	7660	3930	14200	7350	9680	8680	7940
22	5010	5590	46000	38000	42600	7600	3950	13000	7330	9680	8650	7940
23	5010	5960	40300	37700	50400	7600	4000	13000	7300	9650	8650	7850
24	5010	6360	32300	34200	50600	7630	4020	11300	7300	9620	8620	7910
25	5010	5250	34400	37200	40600	7630	4040	10800	7270	9620	8650	7880
26	5060	4920	39800	37400	47400	7490	4120	10700	7220	9620	8620	7940
27	5080	4730	49500	33300	47600	7550	4170	8740	7240	9620	8620	7850
28	5080	4760	47800	33800	36700	7490	4100	8620	7990	9620	8590	7850
29	5080	4710	46900	32000	34000	7350	4020	8470	8080	9650	8530	7880
30	5080	4260	45100	30800		7330	4320	8910	8050	9650	8240	7850
31	5060	—	44800	27700	═	6730	—	9500	—	9590	8240	—
Mean	5155	5664	20690	38470	21770	11100	4703	11720	7924	9175	8614	7912
Ac-Ft	317000	337100	1272000	2366000	1252000	682500	279800	720500	471500	564200	529600	470800

Maximum Discharge	Water Year Of Record	63,800 c.f.s. January 15, 1956	Total Runoff in Acre – Feet	1955 - Calendar Year 1955 - 56 Water Year	5924000 9263000

Department of Water Resources station located at Mile 224.5 above Sacramento. Period of record 1945 to 1952; 1954 to date.

TABLE 20

COTTONWOOD CREEK NEAR COTTONWOOD

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	85	92	234	2870	1490	2710	1250	1110	701	250	103	85
2	81	92	234	1850	1240	2540	1150	1110	659	244	113	[illegible]
3	74	103	226	1260	1100	2500	1070	1150	629	238	103	72
4	64	99	209	1480	1030	2470	1020	1700	623	232	96	[illegible]
5	88	99	719	2640	944	2420	1000	1680	594	220	107	[illegible]
6	92	96	5880	1910	850	2220	1010	1610	561	212	111	86
7	92	96	1680	4600	792	1960	1010	1800	528	207	109	83
8	[illegible]	103	1050	4090	[illegible]	1850	1020	1830	500	199	107	77
9	67	92	1860	[illegible]	[illegible]	1820	1040	1600	500	189	103	83
10	[illegible]	[illegible]	1180	3460	[illegible]	[illegible]	1160	1590	490	186	101	[illegible]
11	[illegible]	60	[illegible]	[illegible]	[illegible]	[illegible]	1380	1580	[illegible]	182	86	88
12	[illegible]	54	[illegible]	[illegible]	600	1620	2290	1320	[illegible]	[illegible]	88	98
13	[illegible]	60	702	3590	605	1570	1780	1190	[illegible]	179	88	92
14	[illegible]	[illegible]	620	15700	561	1530	1580	1100	[illegible]	182	[illegible]	88
15	[illegible]	[illegible]	550	22400	517	1500	1540	1030	[illegible]	182	86	[illegible]
16	[illegible]	92	558	[illegible]	[illegible]	[illegible]	[illegible]	968	[illegible]	182	85	[illegible]
17	[illegible]	114	[illegible]	7300	445	1480	1510	976	388	179	84	[illegible]
18	[illegible]	148	[illegible]	5490	422	1560	1480	984	[illegible]	170	84	88
19	[illegible]	[illegible]	[illegible]	4440	491	[illegible]	1410	1030	388	[illegible]	84	88
20	[illegible]	108	[illegible]	6050	[illegible]	1660	1570	1030	[illegible]	163	84	119
21	[illegible]	[illegible]	[illegible]	4800	21100	1620	[illegible]	984	[illegible]	[illegible]	86	135
22	[illegible]	[illegible]	[illegible]	4380	14900	1610	1660	960	349	157	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	9070	1580	1650	968	[illegible]	150	[illegible]	122
24	81	620	[illegible]	[illegible]	6530	1600	1680	952	315	140	90	122
25	[illegible]	[illegible]	504	[illegible]	[illegible]	1680	1640	878	311	130	83	106
26	[illegible]	[illegible]	4880	[illegible]	4760	1680	[illegible]	830	297	121	86	102
27	[illegible]	[illegible]	[illegible]	[illegible]	3920	[illegible]	1590	785	[illegible]	115	81	99
28	[illegible]	[illegible]	[illegible]	5990	3310	[illegible]	[illegible]	[illegible]	283	119	[illegible]	97
29	[illegible]	[illegible]	[illegible]	[illegible]	3150	1310	[illegible]	707	273	[illegible]	88	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]		1280	[illegible]	689	[illegible]	115	86	93
31	[illegible]	—	[illegible]	[illegible]	═	[illegible]	—	[illegible]	—	113	[illegible]	—
Mean	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	93.5
Ac-Ft	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Maximum Discharge	Water Year Of Record	4[illegible] c.f.s. December 22, 1955 5[illegible],300 c.f.s. March 1, 19[illegible]1	Total Runoff in Acre – Feet	1955 - Calendar Year 1955 - 56 Water Year	515600 1137000

U. S. Geological Survey and U. S. Corps of Engineers cooperative station located 2.4 miles above mouth. Drainage area is 945 square miles. Cottonwood Creek is a west-side tributary to the Sacramento River at Mile 222.28 above Sacramento. Period of record October 194[illegible] to date. Records computed by U. S. Geological Survey.

TABLE 21

BATTLE CREEK NEAR COTTONWOOD

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	162	184	247	903	867	765	552	634	801	460	264	208
2	155	184	262	735	837	735	518	651	777	445	261	201
3	169	184	233	675	813	717	508	675	807	416	254	204
4	167	184	218	789	789	729	508	1200	807	403	254	201
5	164	189	1440	915	759	771	524	1220	711	398	250	201
6	169	186	2410	765	729	663	535	1410	687	390	247	204
7	172	197	495	1410	699	645	552	1320	669	362	247	208
8	167	184	403	1470	681	623	568	990	663	362	244	208
9	157	184	483	1210	651	618	584	867	669	367	244	211
10	184	186	328	1640	640	601	618	849	681	362	233	208
11	199	179	284	1080	628	579	606	1020	675	358	240	211
12	189	192	278	915	618	557	606	819	640	349	237	211
13	174	199	262	1940	606	552	562	735	623	344	237	214
14	167	221	256	5730	584	546	562	699	640	340	233	214
15	167	202	247	5820	562	535	535	687	687	324	233	214
16	157	224	298	2940	535	530	535	735	612	320	230	208
17	169	241	1450	1890	546	540	546	783	574	308	230	214
18	169	233	1970	1600	535	540	552	789	568	308	227	217
19	167	266	4180	1520	552	557	590	891	623	312	220	230
20	182	1280	2390	2040	646	562	628	915	657	316	227	289
21	172	1160	1980	1660	1450	562	669	958	574	304	227	244
22	182	335	4360	1910	3330	557	669	997	535	304	224	233
23	176	314	4480	1810	2260	568	723	1080	535	296	224	230
24	186	266	2170	1450	1410	584	759	997	535	296	227	217
25	179	250	1370	2030	1170	601	747	958	518	293	220	220
26	189	233	3470	1970	1020	623	789	945	491	289	214	220
27	189	224	1990	1460	915	579	747	903	486	286	214	220
28	184	233	1290	1230	849	557	717	855	502	278	211	214
29	182	221	990	1090	813	535	675	855	491	278	214	214
30	179	216	879	1010		574	634	891	475	275	211	220
31	184	—	819	945	—	568	—	879	—	268	204	—
Mean	174	285	1353	1695	914	602	611	910	624	336	232	217
Ac-Ft	10730	16960	83170	104200	52550	37040	36330	55950	37120	20650	14280	12910

Maximum Discharge		Total Runoff in Acre - Feet		
Water Year	8,540 c.f.s. January 14, 1956		1955 - Calendar Year	262200
Of Record	12,800 c.f.s. February 6, 1942		1955 - 56 Water Year	481900

U. S. Geological Survey and U. S. Corps of Engineers cooperative station located 6.3 miles above mouth. Drainage area is 362 square miles. Battle Creek is an east-side tributary to the Sacramento River at Mile 221.5L above Sacramento. Period of record October 1940 to date. Records computed by U. S. Geological Survey.

TABLE 22

PAYNES CREEK NEAR RED BLUFF

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	2.7	3.3	12	259	156	180	35	24	15	4.5	0.6	0.2
2	2.7	3.5	12	176	132	151	32	24	14	4.5	0.6	0.3
3	2.9	3.5	12	130	117	133	30	28	12	4.5	0.9	0.3
4	2.9	3.5	12	194	106	122	30	50	11	4.9	1.0	0.3
5	2.7	3.7	385	320	100	118	29	120	11	4.9	1.0	0.3
6	2.7	3.7	1110	235	92	103	28	297	11	4.5	1.0	0.4
7	2.9	3.5	209	862	87	92	28	242	11	4.5	1.2	0.4
8	2.9	3.3	121	1090	79	86	28	166	11	4.5	1.0	0.7
9	3.1	3.3	166	586	74	81	28	97	10	4.2	1.0	0.7
10	3.3	3.3	81	1000	70	80	28	99	8.6	3.5	0.2	0.7
11	3.3	3.1	57	470	68	76	30	207	6.6	0.4	0.1	0.8
12	3.3	3.1	46	331	65	70	38	106	6.2	0.2	0.1	0.9
13	3.1	4.0	41	793	61	68	36	85	6.2	0.2	0.1	1.0
14	3.1	5.2	36	2810	60	64	34	70	6.6	0.2	0.1	1.2
15	3.1	3.7	33	2090	58	60	32	57	7.6	0.2	0.1	1.2
16	3.1	9.0	57	786	57	54	30	50	8.1	0.2	0.1	1.3
17	3.1	16	254	456	55	51	29	42	6.6	0.2	0.1	1.3
18	3.1	13	1040	392	55	48	28	36	6.2	0.2	0.1	1.4
19	3.1	9.6	2890	348	60	48	28	31	7.1	0.2	0.1	1.8
20	3.1	140	906	615	151	47	26	29	6.6	0.2	0.2	2.2
21	3.1	309	475	434	830	48	26	26	6.2	0.2	0.2	3.0
22	3.1	41	839	420	2420	48	26	20	5.8	0.2	0.2	2.7
23	3.1	75	906	388	1280	48	26	19	5.8	0.2	0.2	2.7
24	3.1	54	443	301	577	47	28	17	5.3	0.2	0.2	2.4
25	3.1	28	272	781	434	44	28	15	5.3	0.2	0.2	2.4
26	3.3	22	1450	851	368	45	31	15	4.9	0.2	0.2	2.2
27	3.3	18	645	515	277	47	30	14	4.9	0.3	0.2	2.0
28	3.3	17	345	366	233	45	29	14	4.9	0.4	0.2	2.0
29	3.3	14	229	286	210	47	26	14	4.5	0.4	0.2	2.0
30	3.3	13	170	229		51	25	15	4.5	0.5	0.2	2.2
31	3.3	—	146	190	—	45	—	16	—	0.7	0.2	—
Mean	3.1	27.7	432	603	287	72.5	29.4	66.0	7.8	1.6	0.4	1.4
Ac-Ft	189	1650	26580	37100	16530	4460	1750	4060	465	100	23	81

Maximum Discharge		Total Runoff in Acre - Feet		
Water Year	5130 c.f.s. December 19, 1955		1955 - Calendar Year	44580
Of Record	5130 c.f.s. December 19, 1955		1955 - 56 Water Year	92990

U. S. Geological Survey and U. S. Bureau of Reclamation cooperative station located 0.4 mile above mouth. Drainage area is 92.5 square miles. Paynes Creek is an east-side tributary to the Sacramento River at Mile 201.5L above Sacramento. Period of record October 1949 to date. Records computed by U. S. Geological Survey.

TABLE 23

SACRAMENTO RIVER NEAR RED BLUFF (IRON CANYON)

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec	Jan.	Feb	March	April	May	June	July	Aug	Sept
1	5660	[illegible]	[illegible]	[illegible]	29900	[illegible]	[illegible]	[illegible]	11000	[illegible]	[illegible]	[illegible]
2	5640	5520	4600	[illegible]	25700	[illegible]	7110	[illegible]	10900	[illegible]	[illegible]	[illegible]
3	5660	5540	4350	53900	22200	27700	7030	6720	10900	[illegible]	9090	8290
4	5650	5570	4250	49100	19100	22400	6980	[illegible]	10800	8760	[illegible]	[illegible]
5	5600	5680	7450	45300	15600	18100	6900	11800	10700	8700	[illegible]	[illegible]
6	5700	5570	34500	38400	15300	15900	6980	15300	10600	8670	9090	[illegible]
7	5820	5570	10400	47800	13400	14700	6880	15800	10000	9010	9040	[illegible]
8	5910	5610	4720	55300	12700	13400	6980	19100	9720	9070	[illegible]	[illegible]
9	5890	5610	11800	43400	12500	12800	6750	18200	9600	[illegible]	[illegible]	[illegible]
10	5980	5570	7970	56900	12300	12600	6750	16900	9630	9120	[illegible]	[illegible]
11	5980	5500	6240	55100	12200	12400	6980	20400	8620	9980	[illegible]	[illegible]
12	6050	5520	5680	49600	12100	12100	[illegible]	18300	8590	10200	[illegible]	[illegible]
13	5500	5730	5370	50400	11900	12000	7750	16300	8540	10200	8980	[illegible]
14	5340	5820	5100	79300	11700	11900	7510	15400	8560	10200	8960	[illegible]
15	5320	5910	4870	107000	11600	11800	7290	15200	8670	10200	[illegible]	[illegible]
16	5320	5860	5820	69300	11400	11100	7240	14900	[illegible]	10200	8960	[illegible]
17	5300	5410	11200	66000	9950	10200	7080	14800	[illegible]	10100	9010	[illegible]
18	5300	5480	27800	57800	9490	10000	7060	14800	[illegible]	10100	9010	[illegible]
19	5320	5860	54600	44300	9600	10000	6980	15000	8510	10100	9040	[illegible]
20	5370	11600	57100	51400	20400	10100	6420	16500	8590	10000	[illegible]	[illegible]
21	5450	20600	29300	46300	51200	10000	6320	16300	8430	[illegible]	[illegible]	8590
22	5390	7290	88500	47400	80200	9950	6340	14900	8320	[illegible]	9090	[illegible]
23	5370	6820	74900	52900	71400	9950	6440	14900	[illegible]	[illegible]	9090	[illegible]
24	5340	8290	54700	45300	68900	9920	6500	13700	8210	[illegible]	[illegible]	[illegible]
25	5390	6240	46000	51500	56700	10000	6500	12800	8180	[illegible]	[illegible]	[illegible]
26	5450	5680	52500	53200	56900	9950	6640	[illegible]	[illegible]	10000	[illegible]	[illegible]
27	5430	5410	63900	48900	59200	9750	6640	[illegible]	8080	10000	[illegible]	[illegible]
28	5450	5340	60800	46900	[illegible]	9660	6340	10300	8700	10000	[illegible]	[illegible]
29	5480	5300	57200	41400	41400	9400	6150	10200	8870	[illegible]	[illegible]	[illegible]
30	5500	4890	54900	39300		9400	6150	10400	8840	[illegible]	[illegible]	[illegible]
31	5520	—	54000	34500	═	8870	—	11300	—	[illegible]	[illegible]	—
Mean	5553	6472	29530	52620	28720	[illegible]	[illegible]	[illegible]	[illegible]	9680	[illegible]	[illegible]
Ac-Ft	[illegible]	385100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	843500	[illegible]	[illegible]	[illegible]	[illegible]

Maximum Discharge		Total Runoff in Acre - Feet	
Water Year	115,000 c.f.s. January 15, 1956	1955 - Calendar Year	[illegible]
Of Record	291,000 c.f.s. February 28, 1940	1955 - 56 Water Year	[illegible]

U. S. Geological Survey station located near the Iron Canyon dam site, Mile 198.6 above Sacramento. Drainage area is approximately 9,300 square miles (excluding Goose Lake Basin). Period of record April 1895 to date.

TABLE 24

REDBANK CREEK AT FOOTHILLS

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept.
1		[illegible]	0.9	254	*129	*106	*29					
2		[illegible]	0.8	71	*112	*99	*27					
3		[illegible]	0.8	47	*99	*95	*26					
4		[illegible]	[illegible]	63	*88	[illegible]	*26					
5		[illegible]	14	57	*81	*77	*25					
6		0	183	41	*71	*64	[illegible]					
7		0	28	223	*66	[illegible]	*24					
8		0	25	90	*60	*58	*23					
9		0	48	54	*53	*57	*23					
10		0	18	238	*51	*54						
11		[illegible]	11	140	*46	*46						
12		[illegible]	[illegible]	67	*43	*45						
13	N	[illegible]	[illegible]	93	*40	*45						
14	O	[illegible]	[illegible]	[illegible]	[illegible]	*43						
15		[illegible]	3.7	[illegible]	[illegible]	*41						
16		[illegible]	[illegible]	*470	[illegible]	*41						
17	F	[illegible]	[illegible]	[illegible]	*26	*41						
18	L	[illegible]	849	[illegible]	*24	*41						
19	O	[illegible]	[illegible]	[illegible]	*58	*39						
20	W	[illegible]	[illegible]	*31	*767	*40						
21		[illegible]	[illegible]	[illegible]	*187	[illegible]						
22		[illegible]	[illegible]	[illegible]	[illegible]	*37						
23		[illegible]	[illegible]	[illegible]	[illegible]	*35						
24		[illegible]	[illegible]	*151	[illegible]	[illegible]						
25		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
26		[illegible]	14	[illegible]	*174	[illegible]						
27		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
28		[illegible]	67	[illegible]	[illegible]	[illegible]						
29		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
30		[illegible]	[illegible]	[illegible]		[illegible]						
31		—	[illegible]	[illegible]	═	[illegible]	—		—			—
Mean		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
Ac-Ft		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						

Maximum Discharge		Total Runoff in Acre - Feet	
Water Year		1955 - Calendar Year	[illegible]
Of Record		1955 - 56 Water Year	

Department of Water Resources and U. S. Bureau of Reclamation cooperative station located approximately 16 miles above mouth. Redbank Creek is a west-side tributary to the Sacramento River at Mile [illegible] above Sacramento. Period of record 1948 to April [illegible], 1956 when station was discontinued. Records computed by Department of Water Resources.

* Estimated

TABLE 25

ANTELOPE CREEK NEAR RED BLUFF

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	32	32	45	332	227	292	138	186	106	60	40	39
2	31	32	52	253	203	270	129	188	154	60	40	39
3	32	32	45	205	185	252	123	203	151	57	41	38
4	32	33	43	354	174	238	119	320	151	56	41	38
5	29	33	229	480	163	232	119	334	134	55	40	38
6	28	34	802	356	153	214	119	397	125	54	40	38
7	29	33	180	1220	143	199	122	322	119	53	40	38
8	29	32	107	1200	136	190	125	280	115	53	40	38
9	30	32	167	614	126	182	130	238	114	52	40	38
10	32	32	107	910	123	172	145	223	115	51	40	38
11	37	32	79	564	117	166	152	300	112	51	39	38
12	32	32	67	409	115	158	154	228	104	50	39	39
13	32	37	60	841	110	154	147	197	97	51	40	39
14	31	41	55	2740	107	149	139	182	103	52	40	39
15	31	36	52	2710	102	143	132	176	123	50	39	39
16	30	42	56	1390	97	138	127	188	103	48	39	38
17	30	47	151	830	99	138	123	205	96	47	40	39
18	31	42	1130	627	94	138	123	214	91	46	39	42
19	34	45	4070	524	107	141	132	218	98	46	39	50
20	33	104	1280	722	621	143	147	232	103	46	39	55
21	28	234	923	609	1460	143	162	248	91	45	39	44
22	31	70	2360	596	5450	143	174	255	86	44	39	41
23	31	70	2300	609	2200	145	192	265	83	43	39	40
24	30	70	1050	470	929	145	210	250	81	43	39	40
25	30	52	610	794	666	151	210	232	79	43	39	40
26	31	46	2260	1090	522	154	216	222	74	42	39	40
27	32	44	1100	722	418	149	205	210	70	42	39	39
28	32	42	627	488	355	143	192	190	66	41	39	40
29	31	42	417	386	331	139	188	186	63	40	39	40
30	31	41	314	314		138	186	188	62	40	40	39
31	31	—	268	268	—	139	—	186	—	40	40	—
Mean	31.1	49.8	678	762	536	171	153	234	104	48.4	39.5	40.1
Ac-Ft	1910	2960	41660	46860	30820	10510	9080	14410	6210	2980	2430	2390

Maximum Discharge	Water Year Of Record	11,500 c.f.s. February 22, 1956 11,500 c.f.s. February 22, 1956	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	85250 172200

U. S. Geological Survey and U. S. Corps of Engineers cooperative station located 9.7 miles above mouth. Drainage area is 124 square miles. Period of record October 1940 to date. Records computed by U. S. Geological Survey.

TABLE 26

ANTELOPE CREEK NEAR MOUTH

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	0.5	15	5.3	*280	*64	*200	42	33	26	9.5	6.7	5.6
2	0	16	10	*210	*58	*170	42	33	21	12	6.1	4.8
3	0.8	17	8.0	*180	*53	*130	44	34	20	13	5.6	4.8
4	4.7	23	6.4	*300	*49	101	43	39	22	14	5.6	5.3
5	5.3	24	*191	*430	*45	63	39	47	22	14	5.8	5.3
6	7.5	25	*780	300	*42	38	38	109	19	14	7.2	7.2
7	6.9	22	*159	*950	39	49	38	83	19	17	*6.4	10
8	6.9	20	*103	*910	*38	43	37	123	19	16	7.8	12
9	7.5	17	*150	407	*36	38	38	108	18	13	7.0	12
10	13	18	*84	*820	*35	35	38	77	17	14	7.2	13
11	22	19	*66	*500	*34	32	42	178	15	14	7.2	15
12	20	22	*55	*360	*33	30	51	120	14	14	6.4	15
13	19	32	*46	*700	*32	29	51	72	14	14	7.2	20
14	19	46	*42	*2100	*32	29	52	53	13	16	5.8	24
15	18	34	*40	*2500	*31	28	53	50	14	14	3.9	26
16	16	41	*46	*1100	*32	27	51	44	12	17	5.8	27
17	17	56	*145	*600	*32	27	47	48	12	12	7.6	30
18	18	41	*1100	*500	*33	33	46	45	12	13	9.5	35
19	13	36	*3910	*350	*37	34	44	48	12	13	8.8	42
20	14	96	*1200	420	*450	35	41	55	13	13	9.1	36
21	14	*220	*890	321	*1200	35	40	58	14	12	9.1	41
22	8.0	66	*2250	*300	*4900	34	39	44	15	12	8.8	39
23	8.8	51	*2200	394	1070	35	36	42	12	12	8.5	35
24	12	77	*1030	174	913	35	33	44	13	11	7.2	35
25	17	34	*575	684	*530	36	36	39	*12	8.5	9.1	35
26	18	20	*2180	1020	*320	40	40	34	9.5	8.5	9.1	27
27	20	13	*1090	614	*270	43	40	33	10	8.2	11	23
28	22	11	*580	436	*260	43	39	31	10	7.6	9.5	18
29	18	8.0	*360	192	*240	44	37	28	8.8	7.0	8.8	18
30	19	6.4	*260	88		45	35	26	9.1	7.2	9.1	25
31	15	—	*230	*72	—	44	—	28	—	7.2	7.8	—
Mean	12.9	37.6	638	587	376	51.8	41.7	58.3	14.9	12.2	7.6	21.5
Ac-Ft	795	2230	39260	36120	21640	3183	2483	3582	887	749	466	1281

Maximum Discharge	Water Year Of Record		Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	60240 112700

Department of Water Resources and U. S. Bureau of Reclamation cooperative station located approximately 0.3 mile above mouth. Antelope Creek is an east-side tributary to the Sacramento River at Mile 182.6L above Sacramento. Period of record 1948 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 27

NORTH FORK MILL CREEK NEAR MOUTH

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	0.6	1.7	11	NR	1.7	9.4	126	15	9.1	10	6.7	2.6
2	0.7	2.9	10	NR	1.5	9.7	110	16	5.0	10	7.2	3.5
3	1.0	3.5	6.0	NR	1.3	9.7	72	17	3.3	10	7.5	2.8
4	0.7	4.0	9.4	NR	1.2	9.4	17	37	4.4	10	6.7	2.4
5	0.7	6.5	8.8	NR	1.1	9.4	13	35	2.4	11	6.5	2.9
6	0.7	6.7	9.1	NR	1.0	9.4	14	36	1.6	9.1	4.4	1.7
7	1.0	6.5	6.2	NR	0.7	9.4	15	28	2.9	9.7	2.5	2.0
8	0.6	4.4	9.7	NR	0.7	9.4	15	24	3.3	8.8	1.1	1.5
9	0.4	2.6	12	*16	0.7	9.7	14	21	1.9	8.8	1.3	1.6
10	0.9	5.8	10	19	0.7	9.7	14	21	1.4	8.8	2.4	1.2
11	3.3	4.4	9.4	17	0.7	10	17	21	1.2	8.4	1.2	0.8
12	1.4	4.6	9.4	17	0.7	10	17	16	1.3	9.1	2.4	0.8
13	2.8	9.4	9.1	39	0.7	10	16	14	3.8	11	2.0	1.6
14	4.8	8.1	9.7	*365	0.7	10	15	13	2.4	9.7	2.8	2.4
15	2.8	7.5	11	*1950	0.7	10	15	10	2.8	8.8	3.1	1.0
16	2.8	8.1	10	* 10	0.7	10	14	7.8	2.2	10	4.2	0.7
17	4.8	7.8	9.7	18	0.7	10	14	11	2.0	9.1	2.5	1.2
18	3.3	7.5	15	11	0.8	12	14	13	1.9	8.4	1.5	0.6
19	2.9	9.7	140	10	0.9	12	13	14	5.7	7.5	1.1	0.7
20	2.1	14	139	19	14	13	17	17	8.6	7.8	0.9	1.5
21	2.2	9.1	13	16	38	13	19	19	3.8	8.1	2.8	1.4
22	1.9	7.8	NR	20	*1350	13	21	19	9.4	7.5	2.9	1.9
23	1.5	7.8	NR	22	138	13	23	20	9.7	7.5	2.5	2.2
24	2.5	7.2	NR	18	14	16	21	10	10	8.1	1.5	2.1
25	2.8	9.1	NR	28	13	18	18	9.7	9.7	8.4	2.5	2.9
26	3.5	11	NR	34	12	19	20	12	10	7.5	2.8	2.8
27	2.6	11	NR	18	11	19	19	14	10	8.1	2.2	2.6
28	1.2	11	NR	15	10	48	16	11	10	7.5	1.7	1.5
29	1.1	11	NR	14	10	128	15	11	11	8.4	2.4	2.0
30	1.2	11	NR	6.7		139	14	10	10	7.5	2.5	2.6
31	1.2	—	NR	2.1	—	143	—	16	—	7.0	4.0	—
Mean	1.9	7.4			56.1	24.9	24.9	17.4	5.4	8.8	3.1	1.8
Ac-Ft	119	440			3228	1530	1484	1068	319	539	190	110

Maximum Discharge	Water Year Of Record	Total Runoff in Acre – Feet	1955 - Calendar Year 1955 - 56 Water Year

Department of Water Resources and U. S. Bureau of Reclamation cooperative station located approximately 0.5 mile above mouth. North Fork Mill Creek is an east-side tributary to the Sacramento River at Mile 179.3L above Sacramento. Period of record 1948 to date. Station was washed out by high water on December 22, 1955, and reinstalled on January 9, 1956. Because of subsequent high water data, it has been found impractical to estimate high flow during periods of no record. Previously published estimates for December 22 to 31, 1955, in error, have been omitted for this reason. Records of flows in excess of 200 second-feet were computed by extending the rating curve. Records computed by Department of Water Resources.
* Estimated

TABLE 28

MILL CREEK NEAR LOS MOLINOS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept
1	91	94	126	597	410	457	371	523	608	390	181	141
2	91	94	126	478	377	426	346	548	608	354	177	141
3	89	94	121	406	361	410	330	562	662	327	177	139
4	91	94	113	642	349	403	333	1000	662	315	174	139
5	91	108	366	780	333	400	349	896	519	300	170	139
6	89	106	1090	605	315	361	361	865	495	294	170	137
7	89	98	317	1870	300	336	383	744	511	294	166	137
8	87	94	205	1380	286	327	403	641	543	303	164	137
9	89	94	255	834	267	324	433	585	571	306	164	[illegible]
10	102	94	174	1080	264	318	478	577	595	288	162	[illegible]
11	137	94	147	788	264	309	460	649	567	276	159	137
12	102	94	144	633	264	300	426	530	531	265	159	137
13	[illegible]	108	137	1440	267	297	400	474	511	255	157	137
14	94	117	128	3170	259	297	383	464	551	242	157	137
15	93	108	126	3830	249	292	364	464	551	235	157	137
16	91	121	130	2280	239	294	361	530	471	228	[illegible]	135
17	91	128	273	1370	241	309	377	597	451	235	155	135
18	94	121	1330	1040	239	324	393	613	459	235	153	141
19	93	164	4690	852	288	349	457	669	567	228	153	155
20	[illegible]	449	2810	1080	1360	364	530	766	531	238	153	164
21	[illegible]	[illegible]	[illegible]	945	2070	367	597	806	451	238	151	139
22	[illegible]	[illegible]	[illegible]	1080	4610	377	601	847	435	228	149	135
23	93	164	5380	1150	2260	393	[illegible]	888	447	222	149	133
24	[illegible]	[illegible]	[illegible]	852	1230	419	[illegible]	784	463	222	147	131
25	91	[illegible]	1390	[illegible]	955	446	629	762	439	218	147	129
26	[illegible]	113	2990	[illegible]	721	460	621	744	421	212	147	127
27	102	[illegible]	[illegible]	906	589	413	558	698	439	205	145	127
28	94	[illegible]	[illegible]	657	523	387	512	622	455	198	145	127
29	94	113	784	573	554	383	495	654	451	193	145	126
30	94	[illegible]	[illegible]	[illegible]		390	506	716	421	188	145	124
31	94	—	537	464	—	400	—	721	—	184	143	—
Mean	[illegible]	[illegible]	[illegible]	11.7	[illegible]	366	[illegible]	675	513	255	157	137
Ac-Ft	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22490	[illegible]	41530	30520	15700	9680	8130

Maximum Discharge	Water Year Of Record	Total Runoff in Acre – Feet	1955 - Calendar Year 1955 - 56 Water Year	
	9,180 c.f.s. December 22, 1955 [illegible] c.f.s. December 11, 1937			203200 357800

U. S. Geological Survey and Department of Water Resources cooperative station located 5.5 miles above mouth. Drainage area is 134 square miles. Period of record September 1909 to September 1913 (fragmentary); October 1928 to date. Records computed by U. S. Geological Survey.

TABLE 29

MILL CREEK NEAR MOUTH

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	5.	34	118	*535	*365	*481	*99	*396	*498	243	24	*1.0
2	7.8	55	125	*450	*357	*393	*102	*396	*498	212	22	*1.0
3	7.1	54	120	*390	*348	*389	*105	*396	*518	195	22	*1.0
4	8.5	55	109	*720	*338	*369	*108	*686	*560	177	19	*1.0
5	13	59	321	*860	*330	*348	*144	*686	*430	161	19	*1.0
6	14	59	*1300	*740	*322	*332	*199	*662	*413	153	20	*1.0
7	12	64	417	*2500	*319	*316	*217	*662	*430	152	19	*1.0
8	12	80	253	*1580	*303	*300	*243	*642	*464	161	18	*1.0
9	13	84	315	*920	*297	*284	*281	*518	*481	157	14	*1.0
10	18	78	224	*1120	*294	*281	*308	*464	*481	146	*12	*1.0
11	32	89	182	*838	*278	*281	*308	*560	*464	139	*12	*1.0
12	1[illegible]	52	179	*740	*273	*278	*268	*464	*447	124	*12	*1.2
13	16	64	173	*1350	*257	*276	*254	*396	*379	110	*9.0	*8.0
14	14	71	156	*3580	*254	*247	*243	*362	*396	101	*5.0	*8.0
15	11	[illegible]	147	*5700	*252	*223	*232	*362	*396	94	*5.0	*8.0
16	9.2	82	153	*2880	*247	*199	*243	*413	*362	83	*5.0	*8.0
17	9.0	105	289	*1590	*245	*219	*254	*498	*348	81	*5.0	*8.0
18	16	101	2650	*1210	*241	*217	*294	*498	*379	83	*5.0	*8.0
19	23	120	*5000	*1000	*276	*214	*335	*560	*430	80	*5.0	*8.0
20	26	380	*3000	*1180	*1310	*223	*379	*686	*413	77	*5.0	*15
21	29	591	*3100	*1100	*2330	*243	*464	*711	*335	70	*5.0	*16
22	32	187	*7600	*1200	*6920	*241	*464	*711	*335	66	*5.0	*16
23	30	158	*3000	*1130	*2510	*250	*498	*711	*335	61	*5.0	*16
24	24	139	*2500	*886	*1290	*276	*518	*662	*335	54	*5.0	*16
25	24	114	*1300	*1100	*1120	*300	*498	*662	*335	50	*5.0	*16
26	31	103	*3250	*1280	*716	*284	*447	*642	*335	44	*5.0	*16
27	32	107	*2050	*864	*617	*221	*396	*580	*335	40	*1.0	*16
28	26	107	*1040	*680	*510	*208	*379	*539	*308	36	*1.0	*16
29	26	105	*730	*576	*527	*162	*348	*539	286	35	*1.0	*16
30	28	103	*560	*491		*99	*335	*580	270	30	*1.0	*16
31	24	—	*480	*444	—	*95	—	*580	—	26	*1.0	—
Mean	19.0	115	1414	1279	808	266	299	556	400	105	9.4	8.1
Ac-Ft	1170	6835	86900	78620	46500	16360	17780	34160	23790	6428	579	482

Maximum Discharge	Water Year Of Record	Total Runoff in Acre-Feet	1955-Calendar Year	159700
			1955-56 Water Year	319700

Department of Water Resources and U. S. Bureau of Reclamation cooperative station. It was located approximately 0.8 mile above mouth, washed out by high water on December 19, 1955, and reinstalled 500 feet below U. S. Highway 99E bridge on June 20, 1956. Flow from January 11 to June 26, 1956, estimated from twice daily staff gage readings. Mill Creek is an east-side tributary to the Sacramento River at Mile 179.0L above Sacramento. Period of record 1948 to date. Records compiled by Department of Water Resources.

* Estimated

TABLE 30

ELDER CREEK AT GERBER

Date	Daily Mean Flow in Second-Feet Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug.	Sept.
1		0	15	426	268	238	141	186	69	9.6	0	
2		0	15	264	241	228	129	193	63	9.6	0	
3		0	10	206	228	221	121	214	58	8.0	0	
4		0	10	214	221	218	115	249	56	7.2	0.1	
5		0	90	364	211	207	118	242	54	6.5	0.1	
6		0	300	270	197	186	121	282	49	5.8	0	
7		0	84	665	194	168	127	263	46	5.8	0	
8		0	47	495	191	162	138	242	41	5.1	0	
9		0	151	332	181	159	156	218	40	4.0	0	
10		0	58	588	175	156	179	204	39	3.5	0	
11		0	32	559	175	153	249	182	36	3.1	0	
12		0	26	393	175	147	410	159	35	2.7	0	
13	N	6.0	23	410	181	144	246	144	34	2.7	0	N
14	O	10	18	1650	175	144	218	132	78	2.0	0	O
15		8.0	15	2070	162	141	200	124	128	1.8	0	
16		10	17	1190	150	138	190	129	35	1.5	0	
17	F	15	55	652	145	141	228	144	28	1.2	0	F
18	L	25	1220	510	139	156	238	156	26	0.8	0	L
19	O	50	4390	434	156	168	252	165	28	0.8	0	O
20	W	200	1300	490	811	179	282	162	27	0.6	0	W
21		50	1850	434	3600	179	302	156	23	0.5	0	
22		20	5260	398	2240	179	286	147	20	0.4	0	
23		70	2590	422	956	179	294	144	17	0.3	0	
24		40	828	386	574	186	290	129	16	0.1	0	
25		30	534	963	452	204	266	110	16	0.2	0	
26		20	523	847	386	204	302	102	15	0.1	0	
27		20	411	692	326	179	260	92	15	0.2	0	
28		22	314	562	290	159	224	82	13	0.2	0	
29		20	248	418	270	156	196	78	12	0.2	0	
30		15	218	356		153	186	76	10	0.1	0	
31		—	206	310	—	153	—	74	—	0	0	—
Mean	0	21.0	673	580	464	174	215	161	37.6	2.7	0.0	0
Ac-Ft	0	1250	41370	35640	26720	10680	12820	9880	2240	168	0	0

Maximum Discharge	Water Year 10,400 c.f.s. December 22, 1955	Total Runoff in Acre-Feet	1955-Calendar Year	57860
	Of Record 10,400 c.f.s. December 22, 1955		1955-56 Water Year	140800

U. S. Geological Survey and U. S. Bureau of Reclamation on cooperative station located 1.0 mile west of Gerber and 3.5 miles above mouth. Drainage area is 142 square miles. Elder Creek is a west-side tributary to the Sacramento River at Mile 178.5R above Sacramento. Period of record October 1949 to date. (Prior records are available at a site approximately 20 miles upstream.) Records computed by U. S. Geological Survey.

TABLE 31

THOMES CREEK AT PASKENTA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug	Sept
1	1.8	4.4	101	635	[illegible]	505	630	818	433	104	[illegible]	[illegible]
2	1.8	4.4	99	[illegible]	526	550	[illegible]	[illegible]	392	94	[illegible]	7.4
3	2.0	4.4	[illegible]	[illegible]	518	582	512	960	405	86	[illegible]	[illegible]
4	2.0	[illegible]	63	680	534	590	550	1290	[illegible]	78	[illegible]	7.0
5	1.8	5.0	[illegible]	1030	510	558	678	1110	[illegible]	[illegible]	17	7.0
6	1.8	5.0	830	[illegible]	486	[illegible]	[illegible]	930	292	[illegible]	17	[illegible]
7	2.0	5.4	380	1240	502	433	800	872	280	65	17	[illegible]
8	2.0	5.8	233	930	526	426	800	[illegible]	280	65	17	7.0
9	2.0	5.4	475	[illegible]	502	468	970	746	292	63	16	[illegible]
10	2.4	5.4	266	1080	518	490	1110	[illegible]	292	59	12	7.4
11	2.8	5.0	298	1330	542	505	[illegible]	654	264	54	11	[illegible]
12	2.8	5.0	357	1150	608	475	827	582	252	52	12	7.4
13	3.0	8.4	274	1620	635	498	670	528	247	50	11	[illegible]
14	[illegible]	11	230	4160	590	558	670	[illegible]	252	48	10	[illegible]
15	3.0	10	200	7690	534	542	728	535	220	45	9.6	[illegible]
16	2.8	14	[illegible]	4320	470	582	710	630	196	42	9.6	[illegible]
17	2.8	[illegible]	482	2210	446	[illegible]	818	755	182	39	8.8	[illegible]
18	2.8	25	1610	1740	402	800	872	827	177	36	8.0	[illegible]
19	3.3	154	6050	1530	430	872	1030	863	196	34	8.8	8.2
20	[illegible]	755	3810	1630	1250	900	1200	818	177	36	8.8	9.0
21	[illegible]	364	6150	1530	4350	845	1260	755	164	32	8.8	8.6
22	4.4	137	16300	1610	3980	800	1220	764	156	30	8.0	8.2
23	4.4	[illegible]	10700	2230	2250	827	1250	755	160	29	8.0	[illegible]
24	4.4	[illegible]	4220	1500	1270	910	1210	670	152	27	8.8	[illegible]
25	4.2	60	2410	1490	990	990	1080	622	143	26	8.0	6.6
26	4.4	[illegible]	1970	1450	809	[illegible]	990	582	135	24	8.8	[illegible]
27	4.2	110	1490	1170	686	[illegible]	818	535	135	23	8.0	[illegible]
28	4.2	139	1040	940	[illegible]	662	[illegible]	461	132	22	[illegible]	[illegible]
29	4.4	122	833	[illegible]	574	694	[illegible]	461	124	21	[illegible]	[illegible]
30	4.4	[illegible]	707	698	—	791	704	498	114	20	[illegible]	[illegible]
31	4.2	—	590	635	—	[illegible]	—	498	—	19	[illegible]	—
Mean	3.2	[illegible]	2020	1594	[illegible]	[illegible]	[illegible]	723	232	[illegible]	[illegible]	[illegible]
Ac-Ft	194	4600	124200	[illegible]	52830	[illegible]	51580	[illegible]	[illegible]	2910	699	[illegible]

Maximum Discharge	Water Year / Of Record	23,500 c.f.s. December 21, 1955 / 23,500 c.f.s. December 21, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year / 1955 - 56 Water Year	[illegible] / [illegible]

U. S. Geological Survey and Department of Water Resources cooperative station located 0.3 mile above Paskenta. Drainage area is 188 square miles. Thomes Creek is a west-side tributary to the Sacramento River at Mile 173.2R above Sacramento. Period of record January 1921 to date. Records computed by U. S. Geological Survey.

TABLE 32

DEER CREEK NEAR VINA

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept.
1	84	85	124	[illegible]	650	700	510	630	500	218	[illegible]	112
2	82	85	138	700	560	640	480	630	476	215	[illegible]	112
3	82	85	126	615	520	620	460	645	464	205	[illegible]	112
4	82	87	118	800	480	620	460	1230	452	205	135	112
5	84	97	199	990	450	600	476	1080	436	205	135	110
6	84	97	705	835	420	550	484	1160	412	199	135	110
7	84	89	[illegible]	2850	390	520	504	984	397	192	132	112
8	82	85	213	2070	370	500	527	900	381	192	132	112
9	82	85	281	1230	350	480	545	825	373	186	129	115
10	89	85	202	1120	330	470	605	785	362	179	129	115
11	[illegible]	85	[illegible]	912	330	460	595	830	354	176	126	121
12	[illegible]	85	165	815	330	450	[illegible]	730	343	[illegible]	126	121
13	87	[illegible]	156	1210	330	440	545	[illegible]	332	176	126	121
14	85	102	145	3280	320	430	522	630	336	183	126	121
15	85	93	138	5300	300	420	492	610	393	176	[illegible]	121
16	[illegible]	[illegible]	143	3690	290	420	488	615	343	170	123	[illegible]
17	[illegible]	[illegible]	250	2170	296	440	496	635	318	164	123	118
18	[illegible]	[illegible]	1500	1540	300	468	504	660	304	158	123	123
19	[illegible]	[illegible]	[illegible]	[illegible]	400	490	[illegible]	695	318	158	123	164
20	[illegible]	[illegible]	[illegible]	[illegible]	1500	520	620	690	343	158	123	170
21	[illegible]	[illegible]	[illegible]	[illegible]	3000	530	680	700	307	155	121	135
22	[illegible]	[illegible]	[illegible]	1600	6500	540	700	705	286	152	121	126
23	[illegible]	[illegible]	8430	1700	3000	560	750	715	276	149	121	123
24	[illegible]	[illegible]	[illegible]	1300	1900	600	700	685	269	[illegible]	121	123
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	620	740	660	258	155	118	121
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	630	248	152	118	[illegible]
27	[illegible]	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	610	238	149	118	121
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	550	[illegible]	570	231	146	121	118
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	550	225	143	118	118
30	[illegible]	[illegible]	[illegible]	[illegible]	—	[illegible]	635	550	225	143	115	118
31	[illegible]	—	[illegible]	[illegible]	—	[illegible]	—	540	—	140	115	—
Mean	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	340	[illegible]	125	[illegible]
Ac-Ft	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7230

Maximum Discharge	Water Year / Of Record	[illegible] c.f.s. December [illegible] / [illegible] c.f.s. December [illegible]	Total Runoff in Acre - Feet	1955 - Calendar Year / 1955 - 56 Water Year	226200 / [illegible]

[illegible] Geological Survey and Department of Water Resources cooperative station located [illegible].9 miles northeast of Vina and [illegible].5 mile above a diversion dam. Drainage area is [illegible]00 square miles. Period of record October 1911 to December 1915; March 19[illegible] to December [illegible]; January 1939 to date. Records computed by U. S. Geological Survey.

TABLE 33

DEER CREEK AT HIGHWAY 99E

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept
1	2.0	18	*99	*700	*589	*658	*429	*485	*312	*90	*15	*5.1
2	3.4	18	*110	*600	*505	*658	*393	*485	*284	*90	*15	*5.1
3	3.6	13	*101	*560	*485	*658	*393	*485	*256	*90	*15	*5.1
4	2.0	12	*95	*740	*465	*589	*360	*896	*256	*90	*15	*5.1
5	2.0	45	*160	*900	*447	*545	*360	*835	*256	*44	*15	*5.1
6	1.5	46	*570	*760	*411	*505	*360	*866	*244	*34	*15	*5.1
7	1.7	39	*302	*2500	*393	*485	*376	*783	*244	*34	*6.7	*5.1
8	1.8	38	*171	*1900	*376	*465	*393	*731	*244	*34	*4.5	*5.1
9	2.3	40	*225	*1100	*360	*465	*411	*658	*232	*34	*4.5	*5.1
10	5.1	41	*162	*1000	*327	*465	*429	*633	*232	*34	*4.5	*5.1
11	36	43	*136	*896	*327	*447	*447	*633	*208	*34	*4.5	*2.0
12	20	52	*132	*731	*327	*429	*447	*589	*208	*34	*4.5	*1.6
13	15	66	*125	*1050	*298	*429	*429	*525	*196	*34	*2.3	1.2
14	13	70	*120	*3190	*284	*411	*429	*505	*196	*34	*5.2	2.3
15	13	*74	*110	*5890	*298	*411	*429	*505	*196	*34	*5.2	8.2
16	20	*83	*120	*4530	*298	*411	*411	*505	*184	*34	*5.2	8.2
17	19	*83	*200	*2080	*298	*411	*393	*505	*184	*34	*5.2	8.2
18	18	*82	*1200	*1550	*312	*411	*393	*505	*184	*23	*5.2	9.7
19	27	*83	*5230	*1250	*465	*447	*429	*485	*184	*15	*5.2	18
20	32	*207	*3240	*1360	*2030	*485	*429	*485	*173	*15	*5.2	28
21	27	*300	*3150	*1210	*3190	*485	*429	*485	*173	*15	*5.2	18
22	20	*144	*7780	*1590	*5350	*485	*485	*485	*173	*15	*5.2	9.7
23	19	*131	*6750	*1550	*2830	*485	*525	*465	*164	*15	*5.2	6.0
24	16	*107	*3230	*1210	*1590	*505	*545	*465	*144	*15	*8.2	4.5
25	12	*98	*1760	*1360	*1290	*525	*567	*465	*144	*15	*5.1	1.2
26	15	*93	*3740	*1840	*1020	*525	*567	*447	*144	*15	*5.1	0.5
27	30	*93	*2470	*1180	*835	*505	*567	*411	*135	*15	*5.1	0.2
28	20	*93	*1390	*926	*757	*465	*567	*376	*135	*15	*5.1	3.8
29	19	*91	*970	*783	*706	*429	*525	*360	*135	*15	*5.1	6.0
30	19	*90	*750	*706		*429	*485	*327	*135	*15	*5.1	5.3
31	19	—	*658	*633	—	*429	—	*327	—	*15	*5.1	—
Mean	14.7	80	1460	1493	926	486	447	539	198	33.2	7.0	6.5
Ac-Ft	901	4766	89760	91970	53280	29860	26580	33150	11810	2043	431	384

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	153000
			1955 - 56 Water Year	344800

Department of Water Resources and U. S. Bureau of Reclamation cooperative station. It was located at U. S. Highway 99E bridge, washed out by high water on December 22, 1955, and reinstalled 300 feet below U. S. Highway 99E bridge on July 18, 1956. Flow from January 11 to June 30, 1956, estimated from twice daily staff gage readings. Deer Creek is an east-side tributary to the Sacramento River at Mile 168.5L above Sacramento. Period of record 1948 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 34

SACRAMENTO RIVER AT VINA BRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept
1	5700	5660	5410	60600	*38000	*44800	*10400	9070	13000	9740	10200	8910
2	5770	5680	5540	57900	*33000	*40900	*9440	9150	12700	9710	9550	8670
3	5770	5680	5110	61000	*28000	*33800	9020	9310	12600	9630	9500	8650
4	5790	5770	5010	57100	*23000	*28000	8830	11300	12600	9680	9500	8540
5	5810	5850	5250	57700	*18000	*23800	8830	15000	12300	9550	9500	8510
6	5770	5850	30200	46700	*17700	*19800	8910	18700	12100	9500	9470	8540
7	5900	5830	18700	52700	*15800	*17600	8990	19300	11700	9710	9440	8540
8	5960	5900	8990	75400	*14900	*16900	9100	22000	11100	9850	9440	8540
9	5980	5920	13200	53100	*14700	*16400	9120	21800	11000	9880	9390	8570
10	5980	5850	10700	67000	*14400	*15800	9280	20400	11100	9820	9420	8620
11	6180	5830	7650	70600	*14300	*15300	9470	23800	10500	10300	9390	8620
12	6150	5810	6760	59800	*14200	*14700	10700	22100	10100	10800	9360	8620
13	5790	6000	6440	60400	*13900	*14100	10400	20000	9970	10800	9420	8620
14	5600	6220	6020	96500	*13700	14100	9970	18400	9940	10900	9390	8650
15	5580	6240	5810	130000	*13600	13900	9660	18000	10300	10800	9360	8670
16	5540	6330	5830	108000	*13400	13500	9580	17700	9990	10800	9360	8670
17	5540	6000	9850	77800	*12000	12600	9440	17700	9710	10800	9360	8670
18	5560	5900	25700	76000	*11500	12200	9440	17900	9630	10800	9360	8700
19	5580	6110	84400	56600	*11700	12300	9550	18000	9770	10700	9360	8780
20	5580	7900	97400	59800	*35000	12500	9550	19500	9820	10800	9360	8880
21	5620	22600	50100	64000	*75000	12400	9420	19900	9680	10800	9310	8880
22	5620	9800	110000	53400	109000	12300	9520	18400	9440	10800	9310	8780
23	5660	7260	122000	65400	93200	12200	9630	18200	9390	10700	9310	8750
24	5700	8990	82900	56400	82600	12300	9770	17300	9310	10700	9280	8750
25	5700	7260	61200	64000	72100	12500	9770	15500	9310	10600	9260	8670
26	5700	6460	68700	68300	62000	12600	9800	15200	9260	10600	9280	8650
27	5750	6070	79400	61600	67600	12200	9660	13900	9200	10600	9260	8650
28	5640	5960	72600	58000	59500	11800	9120	12600	9520	10600	9260	8650
29	5640	5870	66600	50500	47700	11600	8830	12300	9850	10600	9200	8650
30	5680	5700	63100	47000		11400	8570	12200	9800	10600	9070	8620
31	5660	—	61000	43000	—	11300	—	13200	—	10500	9040	—
Mean	5739	6877	38760	65040	35840	16950	9459	16700	10490	10380	9378	8667
Ac-Ft	352900	409200	2383000	3999000	2062000	1043000	562800	1027000	624200	638000	576600	515700

Maximum Discharge	Water Year Of Record	135,000 c.f.s. January 15, 1956 146,000 c.f.s. December 28, 1951	Total Runoff in Acre - Feet	1955 - Calendar Year	8004000
				1955 - 56 Water Year	14190000

Department of Water Resources and U. S. Bureau of Reclamation cooperative station located at Mile 166.5R above Sacramento. Period of record 1945 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 35

SACRAMENTO RIVER AT HAMILTON CITY

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept
1	5050	5000	5300	57100					NR	7400	7820	6880
2	5050	5050	5390	52600					NR	7340	7080	6650
3	4980	5050	5070	56000					NR	7240	7030	6700
4	4950	5120	4840	53700					NR	7210	7010	6730
5	4960	5160	4910	53900					NR	7160	7030	6730
6	4960	5160	*27500	45200					NR	7080	7030	6750
7	5090	5120	*23900	44900					NR	7180	7030	6960
8	5200	5160	10100	71400					NR	7420	7030	7060
9	5340	5160	12000	52200					NR	7450	6960	7080
10	5430	5020	11800	58900					NR	7450	7010	7160
11	5570	4910	8300	67100					NR	7630	6900	7210
12	5600	4840	7210	57200					NR	8270	6930	7260
13	5390	5480	6730	54700	N	N	N	N	NR	8380	6960	7320
14	5020	6070	6370	78700	O	O	O	O	NR	8380	6960	7530
15	5000	6070	5970	NR					NR	8380	6880	7550
16	4910	6220	5950	NR					NR	8410	6930	7580
17	4890	5880	9160	NR	R	R	R	R	NR	8300	6880	7710
18	4910	5780	*23700	NR	E	E	E	E	NR	8270	6930	7740
19	4910	5780	*66500	NR	C	C	C	C	7530	8270	6980	7850
20	4980	6730	93600	NR	O	O	O	O	7660	8220	7010	7980
21	5050	*22000	53300	NR	R	R	R	R	7530	8240	6980	8080
22	5020	11400	82400	NR	D	D	D	D	7340	8240	7030	8000
23	5050	7580	107000	NR					7240	8160	7030	7980
24	4960	8730	86000	NR					7110	8060	7060	7950
25	4980	7790	60200	NR					6930	8030	7060	7850
26	4980	6650	62100	NR					*6800	8060	7060	7900
27	4980	6120	74100	NR					6830	8000	7030	8000
28	5000	5900	68000	NR					6930	8000	7010	7900
29	5050	5850	62000	NR					7400	8000	7010	7930
30	4980	5660	58600	NR					7420	8000	6960	7900
31	4960	—	56600	NR	—		—		—	7980	6960	—
Mean	5071	6548	35950							7878	7019	7464
Ac-Ft	311800	389600	2211000							484400	431600	444100

Maximum Discharge	Water Year Of Record	*350,000 c.f.s. February 28, 1940	Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year	7055000

Department of Water Resources and U. S. Bureau of Reclamation cooperative station located at Mile 149.5L above Sacramento. Period of record 1945 to date. Records computed by Department of Water Resources.
* Estimated

TABLE 36

BIG CHICO CREEK NEAR CHICO

Date	Daily Mean Flow in Second-Feet Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept
1	23	2[illegible]	44	4[illegible]	301	409	1[illegible]2	90	65	39	29	2[illegible]
2	23	24	54	41[illegible]	2[illegible]	385	149	86	64	40	3[illegible]	2[illegible]
3	23	24	45	3[illegible]8	242	379	141	96	59	39	3[illegible]	2[illegible]
4	23	25	40	4[illegible]4	225	391	135	207	54	3[illegible]	32	2[illegible]
5	23	2[illegible]	72	810	214	373	131	179	59	38	30	[illegible]
6	23	2[illegible]	529	[illegible]74	200	328	12[illegible]	194	5[illegible]	38	3[illegible]	[illegible]
7	23	2[illegible]	212	2160	186	288	123	188	5[illegible]	39	30	2[illegible]
8	23	2[illegible]	121	3240	174	267	121	172	54	39	3[illegible]	2[illegible]
9	23	2[illegible]	220	1140	162	257	121	160	54	3[illegible]	29	2[illegible]
10	23	2[illegible]	154	900	152	250	123	153	53	[illegible]	29	2
11	33	[illegible]	10[illegible]	[illegible]10	14[illegible]	240	14[illegible]	214	5[illegible]	[illegible]	29	2[illegible]
12	[illegible]	[illegible]	[illegible]	5[illegible]4	14[illegible]	226	151	185	5[illegible]	36	29	2[illegible]
13	27	3[illegible]	[illegible]4	[illegible]18	134	21[illegible]	143	162	[illegible]	3[illegible]	29	2[illegible]
14	27	[illegible]4	5[illegible]	2000	13[illegible]	20[illegible]	13[illegible]	143	[illegible]	39	28	28
15	2[illegible]	3[illegible]	[illegible]9	311[illegible]	12[illegible]	199	12[illegible]	129	53	3[illegible]	29	27[illegible]
16	[illegible]	34	[illegible]	[illegible]	118	19[illegible]	121	116	51	35	[illegible]9	28
17	[illegible]	34	[illegible]4	1[illegible]	11[illegible]	1[illegible]	114	110	4[illegible]	36	29	2[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	114	199	108	103	[illegible]	34	[illegible]9	29
19	[illegible]	[illegible]	[illegible]	[illegible]	1[illegible]	20[illegible]	105	97	52	34	[illegible]	38
20	[illegible]	[illegible]	[illegible]	[illegible]	1110	[illegible]12	103	94	53	34	[illegible]	41
21	[illegible]	13[illegible]	[illegible]	[illegible]	[illegible]	20[illegible]	105	86	[illegible]	34	[illegible]	[illegible]9
22	[illegible]	[illegible]	[illegible]	[illegible]	5[illegible]	2[illegible]	103	83	[illegible]	[illegible]3	[illegible]8	2[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]1[illegible]	[illegible]3	1[illegible]5	[illegible]8	[illegible]	33	[illegible]	27
24	[illegible]	[illegible]	[illegible]	[illegible]	15[illegible]	[illegible]1	1[illegible]5	76	[illegible]	32	[illegible]	27
25	[illegible]	[illegible]	[illegible]	[illegible]	1[illegible]	[illegible]1	106	73	[illegible]	30	[illegible]	2[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]3[illegible]	[illegible]1	111	[illegible]	[illegible]1	3[illegible]	[illegible]	2
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]1	1[illegible]	108	64	41	32	2[illegible]	2
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1[illegible]	1[illegible]3	68	[illegible]	30	2[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]1	1[illegible]	99	67	[illegible]0	3[illegible]	2[illegible]	27
30	[illegible]	[illegible]	[illegible]			1[illegible]4	9[illegible]	[illegible]	39	30	[illegible]	28
31	[illegible]	—	[illegible]	[illegible]	—	1[illegible]4	—	[illegible]8	—	30	2[illegible]	—
Mean	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	121	110	[illegible]2	35.[illegible]	[illegible]8.6	28.[illegible]
Ac-Ft	1[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1[illegible]8	[illegible]2	7[illegible]0	[illegible]90	150	1[illegible]6	16[illegible]

Maximum Discharge	Water Year Of Record	[illegible].f.s February [illegible] [illegible].f.s. December [illegible], 19[illegible]	Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year	107300 202900

U. S. Geological Survey and Department of Water Resources cooperative station located six miles northeast of Chico. Drainage area is [illegible]8.3 square miles. Period of record May 193[illegible] to date. Records computed by U. S. Geological Survey.

TABLE 37

BIG CHICO CREEK AT CHICO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan	Feb	March	April	May	June	July	Aug.	Sept.
1					*83	*34	*90	*39	*30	21	50	1.8
2					*69	*20	*83	*39	*26	22	20	1.1
3					*62	*12	*76	*44	*26	20	30	0.7
4					*62	*9.1	*76	*108	*27	23	28	1.5
5					*62	*9.1	*76	*90	*23	13	35	0.7
6					*56	*7.0	*76	*90	*23	16	36	0.7
7					*43	*9.1	*69	*90	*19	14	36	1.5
8					*43	*7.0	*62	*83	*20	16	37	1.8
9					*32	*2.2	*62	*83	*20	15	24	4.4
10					*32	*2.2	*69	*76	*20	16	20	1.2
11					*31	*2.2	*69	*83	*14	18	24	0
12					*31	*2.2	*76	*90	*14	10	25	0.3
13				*235	*30	*0.5	*76	*90	*14	16	16	7.0
14				*518	*30	*0	*76	*76	*14	18	7.0	7.6
15				*802	*25	*0.5	*69	*62	*14	16	8.9	7.6
16				*660	*20	*39	*62	*56	*14	15	1.5	7.6
17				*460	*20	*90	*62	*49	*15	12	5.6	3.9
18				*332	*24	*90	*62	*44	*18	15	5.0	8.9
19				*244	*34	*108	*62	*34	*18	8.9	5.0	17
20				*244	*283	*108	*56	*17	*18	12	5.0	24
21				*201	*828	*99	*56	*0	*18	13	5.0	13
22				*201	*1210	*90	*56	*0	*18	11	9.6	9.6
23				*213	*1100	*90	*56	*0	*15	21	0.7	8.9
24				*165	*588	*90	*56	*14	*15	61	3.0	7.6
25				*213	*446	*90	*56	*29	*15	75	3.0	6.3
26				*311	*322	*90	*62	*25	12	53	3.3	6.3
27				*283	*284	*90	*62	*25	12	51	3.3	6.3
28				*201	*255	*99	*49	*25	9.5	50	2.2	7.0
29				*145	*194	*99	*49	*25	21	58	5.6	6.3
30				*116		*99	*44	*25	22	56	0.0	5.6
31		—		*99	—	*99	—	*25	—	53	1.1	—
Mean					210	51.2	65.2	49.5	18.2	26.4	15.0	5.9
Ac-Ft					12100	3148	3878	3047	1080	1624	922	349

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year

Department of Water Resources station located at Rose and Bidwell Avenues. Big Chico Creek is an east-side tributary to the Sacramento River at Mile 141.5L above Sacramento. For total flow of Big Chico Creek near Mouth combine with flow of Lindo Channel near Chico (Table 38). Station installed January 13, 1956. Flow from January 13 to June 25 estimated from twice daily staff gage readings.

* Estimated

TABLE 38

LINDO CHANNEL AT CHICO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1					*206	*397	*56	*26	*1.9			
2					*192	*411	*56	*26	*1.9			
3					*173	*402	*56	*35	*0			
4					*161	*414	*45	*56	*0			
5					*168	*348	*45	*51	*0			
6					*146	*330	*40	*56	*0			
7					*146	*285	*40	*51	*0			
8					*118	*268	*40	*45	*0			
9					*105	*268	*40	*40	*0			
10					*98	*259	*40	*40	*0			
11				*454	*92	*242	*45	*40	*0			
12				*376	*92	*234	*45	*35	*0	N	N	N
13				*424	*92	*225	*40	*35	*0			
14				*1270	*92	*216	*40	*35	*0	0	0	0
15				*2170	*80	*208	*40	*35	*0			
16				*1860	*80	*200	*35	*30	*0	F	F	F
17				*997	*74	*192	*35	*26	*0	L	L	L
18				*610	*74	*161	*40	*26	*0	O	O	O
19				*464	*78	*125	*35	*30	*0	W	W	W
20				*444	*508	*118	*35	*35	*0			
21				*434	*1730	*118	*35	*62	*0			
22				*396	*2380	*118	*35	*62	*0			
23				*405	*2190	*118	*35	*30	*0			
24				*348	*1180	*118	*35	*14	*0			
25				*414	*867	*112	*30	*9.8	*0			
26				*556	*575	*105	*30	*9.8	*0			
27				*492	*396	*74	*35	*9.8	0			
28				*397	*334	*68	*35	*9.8	0			
29				*326	*328	*62	*35	*3.8	0			
30				*259		*62	*30	*3.8	0			
31		—		*228	—	*62	—	*3.8	—			—
Mean					440	204	39.4	31.4	0.1	0	0	0
Ac-Ft					25300	12540	2346	1933	6	0	0	0

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year

Department of Water Resources station located at Grape Avenue, 3 miles west of Chico. Lindo Channel enters Big Chico Creek below the Big Chico Creek at Chico gaging station. For total flow of Big Chico Creek near Mouth combine with flow of Big Chico Creek at Chico (Table 37). Station installed January 11, 1956. Flow from January 11 to June 2[illegible] estimated from twice daily staff gage readings.

* Estimated

TABLE 39

BIG CHICO CREEK NEAR MOUTH

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug.	Sept.
1		0	3.8	*380								
2		0	11	*340								
3		0	7.0	*310								
4		0	3.8	*410								
5		0	7.7	*700								
6		0	447	*1020								
7		0	200	*1900								
8		0	*98	*2000								
9		0	*180	*1000								
10		0	*123	*840								
11		0	*82	*650								
12		0	*62	*520								
13	N	0	*50									
14	O	0	*44									
15		0	*39									
16		0.8	*39									
17	F	3.4	*60									
18	L	2.3	*670									
19	O	3.4	*3450									
20	W	11	*2250									
21		41	*1830									
22		21	*4050									
23		19	*2950									
24		19	*1600									
25		8.4	*350									
26		6.4	*1900									
27		5.8	*1550									
28		6.4	*900									
29		4.4	*620									
30		3.8	*455									
31		—	*387		—		—		—			—
Mean	0	5.2	807									
Ac-Ft		310	49620									

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 75670 1955 - 56 Water Year

Department of Water Resources and U. S. Bureau of Reclamation cooperative station located approximately 1.5 miles above mouth. Big Chico Creek is an east-side tributary to the Sacramento River at Mile 141.5L above Sacramento. Station was washed out by high water in December 1955. Flow from December 8, 1955, to January 12, 1956, estimated from Big Chico Creek near Chico. Combine flow of Big Chico Creek at Chico (Table 37) and Lindo Channel near Chico (Table 38) to obtain flow of Big Chico Creek near Mouth for remainder of year. Period of record 1948 to December 1955. Records computed by Department of Water Resources. Formerly published as "Chico Creek near Mouth".
* Estimated

TABLE 40

STONY CREEK AT BLACK BUTTE DAM SITE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	228	5.1	26	1590	1120	1650	691	758	445	395	367	268
2	195	18	34	1380	1260	1580	668	756	432	376	356	238
3	58	2.5	36	1240	1160	1550	605	762	457	376	355	246
4	28	2.5	30	1420	752	1500	464	826	455	380	371	280
5	22	2.5	30	1770	664	1490	491	870	464	395	363	310
6	23	2.5	260	1640	622	1400	548	911	453	403	349	309
7	23	2.5	238	2870	716	1320	593	939	420	404	331	340
8	22	2.5	118	3460	842	1290	621	897	383	410	321	368
9	18	16	166	2170	906	1260	657	864	416	408	340	376
10	18	22	142	2920	920	1220	688	887	438	406	365	355
11	21	18	106	3500	920	1180	754	868	441	403	389	299
12	20	6.9	114	2740	912	1150	824	836	458	395	382	256
13	17	5.8	102	2480	864	1130	754	793	447	396	356	240
14	11	5.1	86	6330	542	1110	722	748	430	393	345	212
15	7.7	2.5	78	8110	536	1040	731	734	450	373	330	202
16	8.7	2.5	72	5730	566	1000	715	698	418	368	321	224
17	16	2.5	118	4290	440	976	715	646	400	369	305	245
18	43	2.5	658	3400	414	890	714	603	416	377	332	269
19	44	2.5	6180	2750	482	659	706	584	382	391	301	212
20	31	9.7	2730	2910	2870	596	737	590	358	421	309	148
21	12	76	2290	2830	9000	587	762	596	314	443	314	125
22	11	38	15600	2550	13000	581	770	596	302	437	329	131
23	11	24	12000	3150	8840	570	790	604	324	427	315	154
24	12	26	6050	2570	5460	574	787	603	374	411	361	228
25	14	20	3520	2660	3590	613	781	594	377	408	353	276
26	15	18	3230	3860	2690	673	828	590	389	406	334	318
27	7.9	18	2880	4230	2170	701	865	565	411	405	324	333
28	16	26	2080	3670	1880	716	826	542	411	418	339	318
29	2.5	30	1700	2380	1730	721	784	490	395	413	333	293
30	2.5	28	1530	2000		726	768	460	404	386	312	283
31	2.5	—	1420	1740	—	714	—	453	—	372	303	—
Mean	31.0	14.6	2052	3043	2271	1005	712	699	409	399	339	262
Ac-Ft	1910	869	126200	187100	130600	61820	42360	42970	24330	24530	20840	15580

Maximum Discharge	Water Year Of Record	19,300 c.f.s. December 22, 1955 19,300 c.f.s. December 22, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 250600 1955 - 56 Water Year 679100

Department of Water Resources, U. S. Bureau of Reclamation, and U. S. Geological Survey cooperative station located below the proposed Black Butte Dam Site, and 8.7 miles northwest of Orland. Drainage area is 741 square miles. Flows listed include flow of South Diversion Canal which diverts 120 feet above station. Period of record February 1948 to date. Records computed by U. S. Geological Survey.

TABLE 41

STONY CREEK NEAR HAMILTON CITY

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	1840	1450	2280	482	506	38	0	0.1	
2			0	1640	1600	2080	437	506	39	1.5	0	
3			0	1220	1500	1960	375	494	35	4.7	0	
4			0	1300	1010	1900	216	579	47	5.3	0	
5			0	2260	880	1800	146	694	49	9.7	0	
6			0	2050	804	1640	164	804	57	4.5	1.8	
7			0	2510	786	1490	212	930	39	4.3	0.6	
8			0	4100	930	1390	272	900	30	2.0	0	
9			0	2980	1040	1320	308	831	21	1.9	0	
10			0	3030	1040	1270	329	831	12	0.8	0	
11			0	3900	1000	1200	437	795	9.2	0.2	0	
12			0	3310	990	1130	786	718	6.3	0.6	0	
13	N	N	0	2990	960	1070	759	642	5.3	0.8	0	N
14	O	O	0	5500	686	1040	726	565	7.9	6.3	0	O
15			0	8620	642	970	718	420	16	6.0	0	
16			0	7940	694	890	686	324	20	13	0	
17	F	F	0	5510	600	795	702	264	20	6.0	0	F
18	L	L	0	4260	565	710	702	226	31	2.0	0	L
19	O	O	4130	3530	607	488	635	202	26	0.8	0	O
20	W	W	5800	3390	1960	405	593	180	46	0	0	W
21			1740	3490	9760	342	558	188	33	0	0	
22			13800	2980	16800	329	500	177	24	0	0	
23			15900	3460	13600	296	476	177	19	0	0	
24			9250	3080	8260	280	454	205	8.3	0	0	
25			5050	3070	5350	312	459	205	5.0	0	0	
26			4280	4180	4110	390	558	174	4.0	0	0	
27			4090	4940	3370	448	670	158	2.5	0	0	
28			2970	4550	2870	488	649	116	1.3	3.6	0	
29			2220	3350	2580	537	600	86	0.4	7.1	0	
30			1740	2720		544	551	58	0	9.2	0	
31		—	1540	2240	—	512	—	49	—	2.6	0	—
Mean	0	0	2339	3546	2981	978	505	419	21.7	3.0	0.1	0
Ac-Ft	0	0	143800	218100	171500	60110	30070	25790	1290	184	5	0

Maximum Discharge	Water Year Of Record	22,100 c.f.s. December 22, 1955 37,500 c.f.s. March 1, 1941	Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year	163700 650800

U. S. Geological Survey and U. S. Corps of Engineers cooperative station located 6 miles above mouth and above the Glenn-Colusa Irrigation District canal crossing. The flow to the 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. Water diverted from Stony Creek by G.C.I.D. in acre-feet amounted to: March 7350, April 30070, May 25790, June 1290, July 184, and August 5. Drainage area is 764 square miles. Stony Creek is a west-side tributary to Sacramento River at Mile 138.0R above Sacramento. Period of record January 1941 to date. Records computed by U. S. Geological Survey.

TABLE 42

SACRAMENTO RIVER AT ORD FERRY

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	5130	5180	5960	55300	37100	43500	11000	7800	11500	7700	8070	7030
2	5070	5200	6000	51400	33000	40800	9980	8000	11100	7620	7410	6810
3	5040	5200	5760	54300	29800	36000	9390	8180	11000	7530	7240	6790
4	5040	5250	5490	52300	26400	30800	8940	9130	11000	7470	7220	6830
5	5020	5310	5470	53000	23300	27200	8690	12400	10800	7430	7220	6850
6	5040	5350	21800	46000	20700	22600	8640	18900	10500	7360	7220	6870
7	5040	5330	30400	42500	19500	21300	8640	17500	10400	7380	7200	7050
8	5220	5370	11900	72600	17800	19500	8640	19100	9700	7680	7180	7200
9	5200	5410	12000	58400	17300	18300	8670	20000	9540	7700	7130	7280
10	5290	5290	13800	56100	16800	17600	8710	18800	9370	7680	7070	7320
11	5490	5240	9410	69700	16400	17200	8870	19800	9130	7780	7030	7380
12	5530	5200	7890	59700	16000	16700	9900	20800	8420	8470	7050	7450
13	5530	5330	7240	54100	15800	16500	10600	18500	8220	8620	7050	7550
14	5140	6300	6760	76000	15400	16200	9980	16800	8110	8670	7030	7680
15	5050	6340	6410	125000	14900	15900	9700	16200	8380	8690	6950	7800
16	5000	6390	6200	144000	14500	15600	9440	15800	8240	8640	6950	7800
17	4940	6340	8220	91800	14000	14900	9110	15600	8020	8530	6910	7910
18	5000	6160	21500	78000	12800	14200	9080	15500	7800	8440	6930	8070
19	5020	6200	62500	62500	12500	13900	8940	15600	7830	8420	6930	8110
20	5110	6690	103000	54100	17300	13800	8870	16300	8000	8380	6950	8240
21	5130	18500	73400	64000	47200	13700	8360	17100	7910	8400	6930	8310
22	5130	14800	81200	52700	89500	13600	8420	16700	7620	8420	6910	8240
23	5130	8480	136000	60200	111000	13400	8310	15900	7510	8400	6930	8200
24	5130	9030	111000	57500	91000	13200	8440	15700	7410	8270	6910	8180
25	5140	8560	75300	57400	77400	13100	8510	14200	7320	8240	6970	8160
26	5140	7240	66300	70300	61900	13100	8640	13700	7220	8240	7030	8020
27	5090	6690	84200	68300	62900	12900	8850	13000	7110	8240	6990	8110
28	5140	6470	76700	59300	60600	12500	8400	11500	7130	8270	7010	8020
29	5140	6340	68100	51700	47500	12200	8070	11000	7660	8220	7050	8040
30	5130	6240	63000	45700		11800	7740	10800	7680	8220	7030	8040
31	5130	—	60000	41900	—	11700	—	11200	—	8160	6990	—
Mean	5140	6848	40420	64060	35870	18510	8984	14890	8721	8105	7080	7645
Ac-Ft	316000	407500	2485000	3939000	2063000	1138000	534600	915400	518900	498400	435400	454900

Maximum Discharge	Water Year Of Record	174,000 c.f.s. January 16, 1956 370,000 c.f.s. February 28, 1940	Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year	7526000 13710000

Department of Water Resources atation located at Mile 130.8R above Sacramento. Records of flow in exceas of 40,000 second-feet were computed by extending the rating curve because of inability to meaaure flow above this figure. Period of record 1948 to date.

TABLE 43

SACRAMENTO RIVER AT BUTTE CITY

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept.
1	5130	5050	5530	56500	40400	46700	11000	7070	11200	7060	7620	6780
2	5130	5090	5430	55500	35500	43500	10200	7260	11000	7060	7090	6540
3	5110	5070	5370	55500	31400	38900	9450	7420	10700	7020	6780	6470
4	5090	5070	5010	55200	27500	32900	8910	8190	10700	6900	6760	6540
5	5050	5170	4990	54600	24200	27900	8780	11200	10600	6870	6780	6540
6	5050	5210	13700	52100	21600	23700	8690	14500	10300	6800	6800	6560
7	5030	5170	31100	45400	20600	21400	8610	17300	10100	6780	6800	6580
8	5170	5190	13000	59300	18900	20000	8540	18400	9510	7020	6800	6800
9	5230	5210	10700	68700	18200	18600	8430	19800	9200	7040	6800	6900
10	5270	5170	13800	56500	17500	17700	8390	19000	8960	7060	6730	6900
11	5430	5010	9720	70000	17000	17200	8470	18800	8770	7060	6670	7020
12	5550	4990	7980	66300	16500	16800	9270	20800	8400	7740	6670	7040
13	5570	5170	7290	57700	16200	16300	10300	18800	8000	8000	6710	7140
14	5190	6010	6800	68500	15800	16000	9780	17100	7800	8020	6690	7260
15	5050	6030	6430	115000	15400	15800	9520	16200	7700	8140	6620	7450
16	5030	6070	6200	145000	14900	15500	9220	15700	7800	8100	6670	7450
17	4970	6140	7380	116000	14600	14900	8910	15500	7600	8020	6600	7540
18	4970	5820	16500	86300	13400	14000	8780	15300	7400	7950	6620	7690
19	4990	5780	45600	73900	12900	13600	8690	15300	7330	7950	6710	7740
20	5010	6160	87200	56900	15400	13500	8520	15700	7400	7880	6760	7860
21	5050	12100	84900	62200	36900	13400	8030	16700	7400	7860	6760	8000
22	5090	16300	66200	57700	69900	13200	8030	16400	7230	7880	6690	7980
23	5090	8540	122000	57500	115000	13100	7840	15500	7040	7900	6780	7900
24	5050	8140	130000	61200	103000	12800	7790	15400	6970	7760	6800	7900
25	5090	8450	89600	56700	84100	12700	7810	14200	6850	7740	6820	7880
26	5070	7000	64100	69500	67700	12700	7900	13400	6730	7710	6850	7760
27	5030	6390	79800	72700	61300	12600	8170	13000	6620	7640	6800	7860
28	5030	6050	79700	63000	61700	12200	7810	11600	6540	7660	6820	7830
29	5070	5900	69200	56300	53800	12000	7400	10900	6970	7760	6820	7810
30	5010	5800	61000	49700		11600	7110	10700	7060	7690	6780	7810
31	5030	—	57700	45500	—	11500	—	10700	—	7660	6670	—
Mean	5117	6442	39160	66670	38600	18800	8678	14450	8329	7540	6783	7318
Ac-Ft	314600	383300	2408000	4100000	2105000	1156000	516400	888300	495600	463600	417100	435400

Maximum Discharge	Water Year Of Record	149,000 c.f.s. January 16, 1956 170,000 c.f.s. February 7, 1942	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	7231000 13680000

Station is maintained jointly by Department of Water Resources and U. S. Geological Survey. It is located at Butte City bridge, Mile 115.8L above Sacramento. Period of record April 1921 to October 1939 (low-water periods only); June 1940 to date. Records computed by U. S. Geological Survey.

TABLE 44

MOULTON WEIR FROM SACRAMENTO RIVER TO BUTTE BASIN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1			0	800	0							
2			0	750	0							
3			0	500	0							
4			0	600	0							
5			0	350	0							
6			0	300	0							
7			0	0	0							
8			0	850	0							
9			0	3940	0							
10			0	1030	0							
11			0	2660	0							
12			0	3300	0							
13	N	N	0	1400	0	N	N	N	N	N	N	N
14	0	0	0	1960	0	0	0	0	0	0	0	0
15			0	13300	0							
16			0	24600	0							
17	F	F	0	19200	0	F	F	F	F	F	F	F
18	L	L	0	8200	0	L	L	L	L	L	L	L
19	O	O	0	5260	0	O	O	O	O	O	O	O
20	W	W	3060	1250	0	W	W	W	W	W	W	W
21			9550	1450	0							
22			2200	1600	1640							
23			13500	800	14500							
24			21200	1850	13600							
25			11900	950	7800							
26			3180	2790	3780							
27			4520	4300	1750							
28			6250	2400	1900							
29			3950	1220	656							
30			2050	56								
31		—	1250	0	—		—		—			—
Mean			2665	3480	1573	0	0	0	0	0	0	0
Ac-Ft	0		163800	213900	96500	0	0	0	0	0	0	0

Maximum Discharge	Water Year Of Record	26,000 c.f.s. January 16, 1956	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	163900 468300

Department of Water Resources and U. S. Corps of Engineers cooperative station located on Sacramento River at Mile 103.6L above Sacramento. Elevation of crest is 76.75 U.S.E.D. datum; length of crest is 500 feet. Period of record 1940 to date. Records computed by Department of Water Resources.

TABLE 45

SACRAMENTO RIVER OPPOSITE MOULTON WEIR

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	5440					58400	11400	7600	10700	6850	7160	6490
2	5440					54600	10600	7790	10400	6810	6880	6370
3	5390					50100	9840	7870	10200	6790	6580	6330
4	5380					42600	9390	8250	10100	6720	6520	6420
5	5340					37500	9120	10200	10000	6720	6520	6420
6	5350					29800	8920	13000	9730	6650	6580	6490
7	5300					24900	8870	16300	9520	6590	6550	6560
8	5360					22200	8890	17600	9110	6760	6490	6730
9	5390					*20200	9040	20300	8770	6840	6490	6860
10	5400					18900	8910	19900	8550	6850	6420	6910
11	5480					18300	9060	19000	8430	6860	6400	6980
12	5560					17600	9480	22500	7900	7270	6370	7040
13	5540		SEE FOOTNOTE			17000	10500	20500	7620	7500	6400	7100
14	5300					16700	10200	18000	7450	7560	6370	7240
15	5180					16300	9860	16600	7470	7600	6330	7420
16	5120					16100	9640	15900	7530	7590	6320	7450
17	5060					15400	9340	15500	7330	7560	6290	7500
18	5060					14600	9190	15300	7160	7530	6290	7650
19	5000					14100	9060	15300	7100	7470	6290	7720
20	5010					14000	8860	15600	7090	7450	6300	7820
21	5040					13900	8510	16800	7130	7420	6320	7950
22	5040					13800	8410	16900	6970	7450	6280	7980
23	5040					13600	8300	15800	6810	7480	6330	7930
24	4990					13300	8230	15500	6760	7380	6320	7960
25	4960					13100	8220	14500	6710	7300	6370	7930
26	4980					13100	8350	13400	6600	7250	6440	7820
27	4960					13000	8540	12900	6500	7250	6460	7870
28	5010					12600	8390	11500	6460	7220	6430	7880
29	5040					12400	8040	10700	6730	7220	6500	7820
30	5060					11900	7770	10400	6840	7220	6500	7850
31	5090	—			=	11700	—	10200	—	7210	6430	—
Mean	5204					21290	9098	14570	7989	7173	6449	7283
Ac-Ft	320000					1309000	541300	895800	475400	441100	396600	433400

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year

Department of Water Resources station located at Mile 103.3R above Sacramento. Also known as "Sacramento River at Gordon Pump". Daily flow records computed for the irrigation season only as part of the Sacramento River Trial Distribution program. Period of stage record 1922 to date. Flows computed 1954 to date for irrigation season only.
* Estimated

TABLE 46

COLUSA WEIR FROM SACRAMENTO RIVER TO BUTTE BASIN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	23500	13300	18400						
2			0	23400	8300	15000						
3			0	21900	4100	12000						
4			0	22500	1000	7000						
5			0	21400	0	2100						
6			0	21000	0	133						
7			0	15900	0	0						
8			0	18100	0	0						
9			0	33000	0	0						
10			0	25700	0	0						
11			0	28800	0	0						
12			0	33000	0	0						
13	N	N	0	27200	0	0	N	N	N	N	N	N
14	O	O	0	26700	0	0	O	O	O	O	O	O
15			0	45000	0	0						
16			0	60500	0	0						
17	F	F	0	60500	0	0	F	F	F	F	F	F
18	L	L	0	49000	0	0	L	L	L	L	L	L
19	O	O	1800	42000	0	0	O	O	O	O	O	O
20	W	W	22000	30400	0	0	W	W	W	W	W	W
21			40800	28500	1700	0						
22			28000	31500	21400	0						
23			43500	25700	50000	0						
24			57000	31000	55200	0						
25			48700	27200	47000	0						
26			33500	33500	39000	0						
27			32500	40200	30700	0						
28			38000	36300	30800	0						
29			34000	29600	26700	0						
30			28900	21900		0						
31		—	25200	17300	=	0	—		—			—
Mean	0	0	14000	30720	11350	1762	0	0	0	0	0	0
Ac-Ft	0	0	860600	1889000	653000	108400	0	0	0	0	0	0

Maximum Discharge	Water Year Of Record	64,000 c.f.s. January 16, 1956	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	860600 3511000

Department of Water Resources and U. S. Corps of Engineers cooperative station located on Sacramento River at Mile 92.4L above Sacramento. Elevation of crest is 61.80 U.S.E.D. datum; length of crest is 1,650 feet. Period of record 1940 to date. Records computed by Department of Water Resources.

TABLE 47

SACRAMENTO RIVER AT COLUSA

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	5250	5240	5830	35800	32200	33800	11700	7380	10300	6800	7180	6500
2	5240	5130	5590	35700	30800	32900	11100	7500	10300	6760	6950	6420
3	5200	5120	5620	35300	29600	32000	10200	7580	10100	6700	6560	6290
4	5200	5100	5320	35500	28100	30600	9750	7750	10000	6640	6480	6350
5	5190	5160	5200	35300	25800	28800	9420	9000	10000	6600	6480	6320
6	5180	5210	6890	35200	22800	26500	9180	12600	9780	6540	6550	6370
7	5170	5230	22400	33800	21000	23100	9100	16500	9480	6480	6540	6440
8	5190	5200	20900	34500	19900	21400	9050	17900	9250	6630	6500	6640
9	5280	5240	12000	37200	18700	20100	9080	19800	8750	6740	6530	6730
10	5340	5220	13100	35900	18000	19000	9030	20100	8550	6740	6480	6780
11	5430	5110	11300	36400	17400	18100	9090	19300	8420	6740	6450	6880
12	5570	5050	8820	37300	16900	17500	9330	21000	8020	7050	6460	6930
13	5660	5060	7790	36200	16600	16900	10300	20800	7630	7390	6460	6980
14	5590	5650	7250	36000	16300	16500	10400	19300	7450	7480	6440	7100
15	5350	5950	6840	39400	15900	16200	10100	17700	7360	7570	6420	7330
16	5260	5980	6500	42400	15400	15800	9780	16800	7520	7560	6390	7460
17	5200	6110	6600	42500	15000	15300	9450	16300	7350	7530	6380	7470
18	5160	5860	10300	40100	14300	14600	9240	15900	7180	7490	6370	7600
19	5160	5780	23400	38600	13500	14100	9160	15800	7070	7450	6450	7740
20	5180	5950	35000	36500	14000	13900	8910	15900	7110	7400	6470	7790
21	5220	8060	38400	35800	22800	13900	8620	16700	7180	7370	6500	7970
22	5250	16200	36800	36400	34200	13800	8340	17200	7020	7390	6450	8000
23	5260	10800	39100	35300	39800	13700	8260	16600	6840	7420	6510	7960
24	5270	7890	42000	36200	41000	13500	8110	16000	6760	7300	6530	7930
25	5280	8520	40600	35700	39400	13300	8040	15300	6680	7210	6540	7910
26	5240	7400	37900	36400	37900	13200	8130	14200	6570	7190	6560	7820
27	5240	6680	37500	37500	36300	13200	8300	13300	6460	7190	6560	7820
28	5230	6310	38400	37100	36300	12900	8280	12200	6390	7180	6530	7840
29	5260	6080	37800	36000	35600	12600	7910	10800	6610	7200	6560	7770
30	5210	6000	36800	34600		12300	7630	10300	6780	7190	6570	7810
31	5270	—	36200	33400	—	11900	—	10000	—	7190	6480	—
Mean	5275	6410	20910	36580	25020	18430	9166	14760	7964	7101	6527	7232
Ac-Ft	324400	381400	1286000	2249000	1439000	1133000	545400	907500	473900	436600	401300	430300

Maximum Discharge		Total Runoff in Acre-Feet	
Water Year Of Record	43,200 c.f.s. January 17, 1956 49,000 c.f.s. February 8, 1942	1955-Calendar Year 1955-56 Water Year	6029000 10010000

Station is maintained jointly by Department of Water Resources and U. S. Geological Survey. It is located at the Colusa bridge, Mile 89.4R above Sacramento. Period of record April 1921 to October 1939 (low-water periods only); June 1940 to date. Records computed by U. S. Geological Survey.

TABLE 48

BUTTE CREEK NEAR CHICO

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	124	106	191	1060	844	955	634	622	489	228	159	147
2	131	106	220	940	802	910	604	634	472	228	159	147
3	147	103	167	830	762	865	582	700	462	224	159	147
4	135	103	159	955	730	865	572	1100	456	220	159	139
5	143	106	189	1270	700	823	577	962	425	215	159	143
6	103	112	856	1150	670	750	566	970	405	215	159	135
7	118	106	425	3000	640	700	582	837	395	211	155	135
8	124	106	295	3140	628	694	594	750	390	211	147	151
9	147	109	430	2030	599	670	616	718	390	207	155	135
10	124	92	330	1880	610	670	640	694	380	207	155	143
11	159	103	272	1700	588	652	664	809	370	203	155	151
12	115	109	215	1430	566	628	652	706	360	203	143	135
13	100	127	232	1950	555	622	616	640	345	199	151	143
14	100	143	215	4180	544	628	604	616	345	199	151	147
15	100	127	203	6270	522	616	582	604	370	195	151	147
16	109	131	203	3970	500	604	572	610	340	191	139	139
17	97	147	305	2370	494	622	550	616	320	187	155	139
18	100	127	1050	1750	489	652	544	616	300	187	147	147
19	94	179	6150	1490	555	628	577	616	315	187	155	155
20	112	330	5310	1500	1910	604	616	622	310	173	147	191
21	112	390	4390	1430	3050	604	652	634	290	171	147	167
22	92	228	12000	1460	8450	640	652	640	272	167	147	171
23	90	228	9780	1500	5670	664	694	646	263	159	155	159
24	106	191	3860	1270	2580	682	700	622	258	163	147	159
25	94	175	2460	1380	2000	694	700	599	258	167	143	167
26	104	159	4990	1730	1560	724	743	588	249	167	147	159
27	131	155	3190	1490	1270	658	694	572	245	167	147	167
28	109	159	2020	1210	1110	652	646	528	249	155	147	163
29	104	159	1490	1090	1010	652	634	528	230	159	147	167
30	103	159	1210	992		652	646	533	232	159	135	159
31	103	—	1090	925	—	664	—	528	—	159	147	—
Mean	114	152	2061	1849	1393	692	624	673	340	189	151	152
Ac-Ft	7090	9070	126700	113700	80150	42530	37100	41390	20210	11630	9260	9070

Maximum Discharge		Total Runoff in Acre-Feet	
Water Year Of Record	18,700 c.f.s. December 22, 1955 18,700 c.f.s. December 22, 1955	1955-Calendar Year 1955-56 Water Year	290300 507800

U. S. Geological Survey and Department of Water Resources cooperative station located 0.7 mile below Little Butte Creek and 7.5 miles east of Chico. Drainage area is 148 square miles. Butte Creek enters Butte Slough at Mile 0.6E above its junction with the Sacramento River. Flows into the Sacramento River are regulated by gates at the mouth of Butte Slough. See notes on Butte Slough to Sacramento River (Table 49) and Butte Slough to Sutter Bypass (Table 64). Period of record November 1930 to date. Records computed by U. S. Geological Survey.

TABLE 49

BUTTE SLOUOH TO SACRAMENTO RIVER

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nav.	Oec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	144	0	488	0	0	0	473	565	298	37	38	279
2	153	0	0	0	0	0	565	553	389	45	39	353
3	154	0	0	0	0	0	633	563	413	48	48	346
4	107	0	0	0	0	0	638	540	431	49	55	345
5	72	0	0	0	0	0	616	546	417	51	58	372
6	68	0	0	0	0	0	593	450	441	67	66	390
7	67	0	0	0	0	0	553	0	437	44	82	378
8	69	0	0	0	0	0	523	0	427	29	105	411
9	72	0	678	0	0	0	500	0	455	51	111	460
10	77	0	323	0	0	0	509	0	393	60	122	472
11	80	0	821	0	0	0	509	0	320	59	180	462
12	80	0	1110	0	0	0	523	0	301	53	189	468
13	90	0	1100	0	0	0	473	0	238	47	181	432
14	95	724	1050	0	0	0	491	0	125	38	173	447
15	100	364	958	0	0	0	523	0	71	38	135	477
16	100	303	832	0	144	0	535	0	83	58	96	503
17	100	270	610	0	213	86	544	0	137	129	94	500
18	87	354	0	752	359	369	531	0	143	138	145	464
19	80	408	0	364	495	431	514	0	116	107	182	487
20	79	450	0	213	389	450	500	0	163	93	194	535
21	81	0	0	0	0	398	504	0	143	65	226	540
22	80	0	0	0	0	379	518	0	152	50	235	570
23	84	0	0	0	0	364	509	0	92	65	230	576
24	86	422	0	0	0	384	473	0	84	71	246	540
25	89	86	0	0	0	398	396	0	89	62	259	473
26	59	398	0	0	0	379	376	292	90	51	244	393
27	0	369	0	0	0	379	491	292	76	42	227	292
28	0	349	0	0	138	417	552	417	91	36	211	164
29	0	339	0	0	0	441	567	500	153	36	215	131
30	0	303	0	0		468	564	417	79	36	239	31
31	0	—	0	0	=	455	—	398	—	42	257	—
Mean	75.9	171	257	42.9	59.9	187	523	178	228	580	157	410
Ac-Ft	4667	10190	15810	2636	3447	11500	31130	10970	13580	3564	9683	24380

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	180000
			1955 - 56 Water Year	141600

Department of Water Reaourcea station located at outfall gates at junction of Sacramento River. Flow, measured at and regulated by gravity culverts, enters the Sacramento River at Mile 84.0L above Sacramento. Theae flows, together with the flow of Butte Slough to Sutter Bypass (Table 64) and Wadaworth Canal to Sutter Bypass (Table 65) are, during the summer monthe, made up almost entirely of return water from lands irrigated by Feather River diveraions.
Period of record 1924 to date.

TABLE 50

SACRAMENTO RIVER AT MERIDIAN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nav.	Oec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	5240	5080	6170			36600	12300	8030	10700	6810	7220	6630
2	5240	5120	5740			35500	11700	8090	10800	6810	7080	6650
3	5220	5140	5690			34700	11000	8190	10600	6740	6630	6520
4	5190	5140	5430			33100	10500	8390	10500	6650	6510	6570
5	5200	5180	5280			31200	10100	9450	10400	6640	6490	6570
6	5180	5250	6160			28700	9830	12000	10200	6620	6570	6620
7	5180	5280	20300			24600	9650	14600	9950	6560	6570	6670
8	5210	5230	22900			22200	9590	16200	9720	6620	6560	6860
9	5320	5260	14400			20300	9610	17700	9260	6760	6560	7050
10	5420	5260	13600			19200	9590	18500	9000	6750	6520	7070
11	5510	5130	12900			18500	9650	18100	8800	6760	6510	7260
12	5650	5060	10500			17800	9880	19000	*8480	6980	6520	7350
13	5740	5120	9150			17200	10700	19500	*8100	7370	6520	7380
14	5580	5820	8450	SEE FOOTNOTE		16800	11000	18200	*7760	7500	6520	7490
15	5340	6330	7870			16500	10700	16600	*7480	7600	6520	7720
16	5230	6380	7420			16200	10400	15900	7620	7600	6520	7890
17	5170	6460	7230			15800	10100	15300	7520	7570	6510	7880
18	5100	6300	10100			15100	9850	14900	7360	7530	6500	7960
19	5110	6180	21800			14600	9730	14700	7230	7470	6490	8100
20	5120	6330	36500			14400	9500	14600	7240	7440	6500	8190
21	5190	7550	40700			14300	9230	15300	7290	7380	6570	8320
22	5210	15300	39800			14200	8940	15900	7180	7420	6560	8390
23	5230	12800	41800			14000	8860	15800	6970	7460	6630	8390
24	5220	9140	45100			13900	8860	15300	6860	7360	6650	8350
25	5220	9110	44200			13700	8560	15000	6790	7240	6670	8290
26	5200	8380	41600			13600	8640	13800	6690	7210	6700	8170
27	5070	7400	40700			13600	8830	13300	6570	7190	6680	8100
28	5080	6850	41600			13400	*8970	12500	6460	7170	6630	8040
29	5120	6540	41000			13100	*8640	11400	6630	7220	6630	7960
30	5150	6370	40000			12800	*8280	*10800	6810	7240	6680	7960
31	5100	—	39200		=	12500	—	10400	—	7220	6630	—
Mean	5250	6683	22360			19290	9766	14110	8232	7125	6608	7547
Ac-Ft	322800	397700	1375000			1186000	581100	867700	489900	438100	406300	449100

Maximum Discharge	Water Year Of Record 45,400 c.f.s. December 24, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year	6334000
			1955 - 56 Water Year	

Department of Water Reaources station located at Mile 79.85 above Sacramento. Daily flow records computed for irrigation aeason only as part of the Sacramento River Trial Diatribution program. Period of stage record 1915 to date. Flow computed 1956 irrigation aeason only and 1955 calendar year.
* Estimated

TABLE 51

RECLAMATION DISTRICT 70 DRAIN

Date	Daily Mean Flow in Second-Feet Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	12	*11	20	76	113	60	0	0	44	30	37	45
2	12	*11	11	90	89	52	0	5.0	45	43	38	19
3	12	*11	7.7	75	80	48	6.4	12	26	43	38	77
4	16	*11	17	75	69	44	6.4	12	14	43	42	72
5	16	*11	7.7	65	77	44	7.4	29	20	43	43	65
6	16	*11	5.4	65	69	35	0	59	28	40	44	68
7	*12	*11	0	65	74	35	0	115	12	40	51	77
8	*12	*11	0	66	46	32	4.6	122	13	37	44	77
9	*12	*4.8	0	70	47	32	5.8	114	15	34	45	71
10	12	*4.8	0	65	36	35	7.0	118	46	43	45	72
11	12	*4.8	0	78	37	32	12	118	52	45	63	63
12	8.2	*4.8	0	81	31	28	18	99	60	44	62	66
13	12	*4.8	0	74	33	23	18	115	30	43	59	57
14	12	*4.8	0	146	31	29	11	93	31	40	59	95
15	12	4.8	0	186	29	17	13	73	33	48	54	81
16	12	4.8	11	184	33	21	5.2	86	37	35	58	59
17	8.2	16	11	180	43	21	13	109	37	32	55	59
18	*5.8	0	0	180	17	20	3.9	125	41	34	60	48
19	*5.8	0	0	180	25	20	0	72	42	31	62	54
20	*5.8	11	119	174	30	31	0	94	42	38	62	29
21	*5.8	4.8	134	161	44	17	0	94	41	47	62	29
22	*5.8	0	109	146	58	19	0	94	40	45	62	29
23	*5.8	0	154	162	159	14	0	71	56	45	69	17
24	8.2	0	164	137	128	16	20	96	57	45	69	29
25	8.2	2.5	151	184	111	16	13	96	60	37	67	29
26	*5.8	0.6	164	188	105	19	24	92	54	45	100	23
27	*5.8	0	175	188	83	14	35	80	56	49	95	17
28	*5.8	16	136	186	78	10	45	37	50	49	74	17
29	*5.8	0	95.6	186	77	7.4	31	18	52	48	69	23
30	*5.8	57	87	184		9.9	43	17	68	47	47	23
31	*5.8	—	13	117	—	6.8	—	27	—	47	48	—
Mean	9.5	7.8	51.4	129	63.9	26.1	11.4	74.0	40.1	41.6	57.5	49.7
Ac-Ft	584	465	3158	7962	3673	1603	680	4546	2384	2559	3537	2955

Maximum Discharge	Water Year Of Record	Total Runoff in Acre-Feet	1955-Calendar Year	23530
			1955-56 Water Year	34110

This is drainage returned to the Sacramento River by gravity and pumping at Mile 68.6L above Sacramento. This plant also discharges to an irrigation canal and is a combination irrigation and drainage plant. Period of record 1924 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 52

TISDALE WEIR FROM SACRAMENTO RIVER TO SUTTER BYPASS

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	15200	8420	11600						
2			0	14700	6810	10200						
3			0	13800	5660	9340						
4			0	13900	4580	8360						
5			0	13700	2800	6640						
6			0	13800	855	4920						
7			0	12600	260	1670						
8			0	12100	39	629						
9			0	15500	0	81						
10			0	15900	0	0						
11			0	15400	0	0						
12			0	16800	0	0						
13	N	N	0	15800	0	0	N	N	N	N	N	N
14	O	O	0	14100	0	0	O	O	O	O	O	O
15			0	16100	0	0						
16			0	19900	0	0						
17	F	F	0	21700	0	0	F	F	F	F	F	F
18	L	L	0	20900	0	0	L	L	L	L	L	L
19	O	O	120	18500	0	0	O	O	O	O	O	O
20	W	W	7210	15700	0	0	W	W	W	W	W	W
21			14500	12700	329	0						
22			16000	12700	6410	0						
23			19400	11400	14200	0						
24			21600	11700	19100	0						
25			21400	12200	19300	0						
26			20300	12200	18000	0						
27			18900	14200	15800	0						
28			19300	14900	15000	0						
29			18800	13500	13900	0						
30			17600	11800	0	0						
31		—	16300	9960	—	0	—		—			—
Mean	0	0	6820	14620	5223	1724	0	0	0	0	0	0
Ac-Ft	0	0	419400	899200	300400	106000	0	0	0	0	0	0

Maximum Discharge	Water Year 22,000 c.f.s. January 17, 1956 Of Record	Total Runoff in Acre-Feet	1955-Calendar Year	419400
			1955-56 Water Year	1725000

Department of Water Resources and U. S. Corps of Engineers cooperative station located on Sacramento River at Mile 64.2L above Sacramento. Elevation of crest is 45.45 U.S.E.D. datum; length of crest is 1155 feet. Period of record 1940 to date. Record for December 1955 recomputed from subsequent data. Records computed by Department of Water Resources.

TABLE 53

SACRAMENTO RIVER BELOW WILKINS SLOUGH

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	5140	5030	6150	24000	23000	23300	12300	7340	10200	5530	6090	5750
2	5120	5040	5740	23900	22700	23000	11700	7190	10300	5570	5960	5870
3	5110	5070	5620	23800	22500	22800	10900	7290	10100	5490	5570	5740
4	5090	5080	5480	23800	22300	22600	10300	7520	9960	5380	5340	5780
5	5070	5090	5240	23700	22000	22300	9770	8640	9850	5360	5320	5840
6	5060	5160	5370	23700	21400	22000	9360	11300	9690	5340	5390	5940
7	5070	5220	14100	23400	20800	21400	9030	13900	9300	5290	5410	6060
8	5070	5180	20200	23400	20400	20900	9000	15600	8990	5340	5420	6300
9	5180	5200	15300	24000	19500	20300	9050	16900	8430	5520	5430	6580
10	5290	5220	12700	23900	18600	19500	9010	17700	8110	5520	5460	6800
11	5420	5140	12800	23900	17800	18700	9110	17400	7800	5490	5460	6960
12	5510	5050	10700	24100	17300	18000	9470	17900	7460	5620	5480	7150
13	5610	5040	9170	24000	16800	17400	10200	18500	6840	6080	5460	7280
14	5570	5420	8330	24000	16500	17000	10600	17500	6460	6300	5470	7440
15	5280	6140	7760	24600	16100	16600	10500	15900	6270	6490	5430	7680
16	5140	6260	7330	25700	15600	16300	10200	14900	6360	6520	5390	7930
17	5080	6320	6990	26300	15300	16000	9890	14400	6320	6500	5360	7970
18	5010	6250	8460	26200	14800	15400	9610	14000	6170	6490	5300	8060
19	5000	6120	16200	25700	14100	14900	9390	14000	6000	6440	5380	8200
20	5000	6160	22700	25200	13900	14700	9160	14100	5970	6380	5350	8300
21	5070	6670	24200	24600	17700	14600	8810	14500	6130	6320	5380	8400
22	5100	12400	24500	24400	22500	14500	8380	15200	6020	6340	5410	8500
23	5130	13100	25200	24200	23800	14300	8240	15100	5810	6390	5480	8490
24	5140	9490	26000	24200	24800	14100	8070	14800	5640	6300	5510	8440
25	5140	8730	26100	24200	24900	13900	7960	14700	5570	6160	5570	8360
26	5120	8340	25600	24000	24500	13800	8000	13900	5460	6160	5600	8250
27	5010	8160	25000	24300	24100	13800	8220	13400	5330	6160	5710	8130
28	5000	6800	25100	24300	23800	13700	8520	12700	5130	6130	5680	8100
29	5040	6430	25000	24000	23700	13400	8310	11500	5220	6140	5700	7990
30	5080	6290	24600	23700		13000	7860	10600	5500	6180	5760	7970
31	5070	—	24300	23300	—	12500	—	10200	—	6140	5760	—
Mean	5152	6520	15550	24270	20040	17250	9364	13500	7213	5970	5517	7342
Ac-Ft	316800	388000	955900	1493000	1153000	1061000	557200	830200	429200	367100	339200	436900

Maximum Discharge	Water Year Of Record	26,300 c.f.s. January 17, 1956 26,600 c.f.s. February 8, 1942	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	5422000 8328000

Station is maintained jointly by Department of Water Resources and U. S. Geological Survey. It is located at Mile 62.9R above Sacramento, 0.3 mile below Wilkins Slough pumping plant of Reclamation District 108, and 1.3 miles below Tisdale Weir. Period of record August 1931 to October 1939 (low-water periods only); June 1940 to date. Records computed by U. S. Geological Survey.

TABLE 54

SACRAMENTO RIVER ABOVE RECLAMATION DISTRICT 108 DRAIN PLANT

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	5140					23200	12700	*7250	*10100	*5500	5930	5800
2	5040					23000	12300	*7150	*10200	*5450	5860	5900
3	5060					22800	11500	*7200	*10000	*5450	5620	5860
4	5020					22600	10800	*7400	*9800	*5300	5300	5820
5	5040					22400	10200	*8500	*9700	*5250	5260	5890
6	5010					22100	9830	*10500	*9600	*5250	5240	6000
7	5030					21700	9460	*13500	*9200	*5250	5300	6140
8	5010					21200	9380	*15500	*8400	*5300	5330	6350
9	5090					20600	9470	16900	*8100	*5400	5300	6710
10	5280					19700	9470	17600	*8000	*5450	5340	6900
11	5390					18800	9640	17500	*7800	*5400	5360	7050
12	5470					18000	9940	17700	*7400	5550	5390	7230
13	5610					17300	10400	18400	*6800	5810	5420	7420
14	5590					16900	10800	*17400	*6400	6170	5430	7620
15	5310					16500	10600	*15800	*6250	6360	5400	7810
16	5120					16200	10200	*14900	*6300	6430	5400	8100
17	5060					15900	9820	*14200	*6300	6420	5380	8120
18	5000		SEE	FOOTNOTE		15400	9520	*13900	*6150	6410	5370	8160
19	4960					15000	9340	*13900	*6000	6350	5420	8320
20	4960					14800	9190	*14000	*6000	6320	5480	8430
21	5020					14800	8960	*14400	*6100	6230	5480	8530
22	5090					14600	*8400	*15100	*6050	6130	5590	8580
23	5110					14600	*8200	*15200	*5800	6230	5640	8530
24	5140					14400	*8000	*14800	*5600	6200	5650	8450
25	5140					14300	*7900	*14700	*5550	6050	5680	8310
26	5160					14300	*7900	*13800	*5350	5980	5700	8170
27	5020					14400	*8000	*13200	*5250	5940	5790	8020
28	4990					14300	*8350	*12600	*5100	5950	5800	7950
29	5040					14000	*8200	*11500	*5100	5940	5760	7880
30	5080					13500	*7750	*10500	*5350	5990	5790	7790
31	5070	—			—	13000	—	*10000	—	5950	5810	—
Mean	5131					17430	9541	13390	7125	5852	5523	7395
Ac-Ft	315500					1072000	567700	823100	424000	359800	339600	440000

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year

Department of Water Reaources atation located at Mile 46.4 above Sacramento. Daily flow records computed for the irrigation season only as part of the Sacramento River Trial Distribution program. The records are based on current meter measurements and on correlation with adjacent gaging stations and should not be considered to have the same degree of accuracy as the records for other gaging stations published in this report. Flows computed 1955 to date for irrigation season only.

* Estimated

TABLE 55

RECLAMATION DISTRICT 108 DRAIN AT ROUGH AND READY BEND

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	95	0	27	147	182	27	0	142	350	226	312	353
2	0	0	0	141	88	32	67	240	341	223	318	340
3	32	0	34	114	145	83	0	167	365	309	254	341
4	0	0	0	185	130	78	73	228	288	307	317	361
5	44	0	0	131	130	75	0	242	312	179	319	367
6	0	0	40	101	115	77	57	236	269	309	318	394
7	35	34	38	166	128	64	28	227	290	308	317	382
8	0	0	0	151	78	64	0	274	344	246	304	389
9	0	0	32	156	118	85	48	270	350	232	297	435
10	32	0	38	221	71	58	0	250	359	317	323	399
11	43	20	0	195	60	76	29	268	312	318	324	341
12	0	0	25	157	55	64	32	339	309	188	324	341
13	40	0	0	189	70	54	0	300	302	289	324	384
14	0	0	32	335	63	54	78	291	359	307	328	397
15	39	0	0	516	61	73	0	311	339	251	313	372
16	0	20	57	345	60	42	42	306	328	216	311	378
17	35	0	0	309	30	65	0	286	334	309	310	325
18	0	34	31	370	60	32	0	343	303	311	312	325
19	35	0	372	242	40	40	0	361	308	308	357	321
20	0	0	386	304	122	48	96	357	311	300	323	299
21	33	27	338	273	79	44	50	371	311	283	349	297
22	0	0	366	289	287	40	21	364	311	218	365	228
23	0	69	470	248	408	40	52	405	307	309	329	178
24	21	0	513	173	236	47	71	435	242	308	345	132
25	0	0	382	427	188	31	119	447	304	307	367	56
26	23	0	368	545	147	0	128	381	232	260	349	100
27	0	0	423	566	144	94	113	469	323	257	329	68
28	0	29	306	552	137	0	123	408	316	324	340	80
29	0	0	171	491	56	55	120	410	182	321	321	48
30	0	0	126	236		0	155	393	309	212	335	44
31	0	—	45	155	—	71	—	390	—	318	342	—
Mean	16.4	7.8	149	272	120	52.0	50.1	320	310	276	325	282
Ac-Ft	1006	462	9163	16720	6918	3199	2979	19660	18470	17000	19980	16810

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	125900
			1955 - 56 Water Year	132400

This is drainage returned to the Sacramento River by pumping at Mile 44.0R above Sacramento. Additional water is sometimes returned to Colusa Basin Drain at Mile 19.9L above junction of Sacramento River. Period of record 1924 to date. Records computed by Department of Water Resources.

TABLE 56

RECLAMATION DISTRICT 787 DRAIN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	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	0.3	0	46.4	99.5	59.9	27.8	13.5	47.9	34.9	37.5	36.8	32.0
Ac-Ft	20	0	2855	6121	3448	1707	806	2946	2076	2306	2261	1904

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	10530
			1955 - 56 Water Year	26450

This is drainage returned to the Sacramento River by pumping at Mile 37.0R above Sacramento. Additional water is returned to Colusa Basin Drain below Knights Landing outfall gates via Sycamore Slough (Table 61). Period of record 1949 to date. Records computed by Department of Water Resources.

TABLE 57

COLUSA BASIN DRAIN AT HIGHWAY 20

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	302	381	178	2190	2620	565	763	861	1070	629	795	1010
2	350	399	159	2090	2190	508	821	777	1070	673	845	1030
3	381	397	145	1790	1750	480	733	847	993	711	821	1070
4	383	417	153	1340	1260	435	587	1180	941	699	815	1130
5	366	393	145	1150	969	402	554	1430	909	683	885	1130
6	309	390	257	975	785	366	518	1570	797	689	957	1160
7	291	375	318	831	649	336	597	1630	789	691	907	1200
8	302	350	225	1660	533	320	579	1650	753	711	875	1280
9	327	347	459	1970	459	314	577	1600	611	713	895	1310
10	372	339	483	1940	417	302	567	1470	653	675	905	1310
11	402	348	329	2170	393	280	529	1380	679	669	923	1400
12	311	348	285	2130	374	259	745	1370	593	689	929	1480
13	312	472	254	2010	357	244	815	1330	577	703	949	1460
14	347	781	232	2280	336	246	693	1270	587	741	957	1380
15	341	556	205	2660	312	239	629	1180	677	829	927	1280
16	348	374	210	2830	293	227	563	1170	691	859	923	1140
17	345	383	203	3040	289	218	502	1210	675	811	987	1040
18	321	366	338	3160	273	208	540	1260	657	805	985	1000
19	336	334	1690	3140	271	201	508	1350	701	827	977	1010
20	370	345	2570	3030	581	201	397	1380	803	793	996	1000
21	383	339	2760	2850	1670	210	350	1310	817	697	1030	939
22	399	318	2950	2660	1900	200	271	1330	821	843	1040	781
23	415	300	3230	2480	2440	186	261	1340	777	835	1050	701
24	426	388	3390	2270	2490	169	235	1290	729	759	1030	619
25	393	356	3300	2460	2200	164	320	1290	733	757	1010	523
26	393	302	3170	2740	1730	172	608	1110	689	751	1010	498
27	393	262	3150	3000	1160	390	1300	933	661	727	998	536
28	388	239	3080	3350	829	417	1220	919	671	747	967	536
29	395	225	2950	3460	667	251	1030	921	651	753	967	491
30	388	193	2740	3260		327	941	913	605	801	975	447
31	404	—	2460	2940	—	559	—	1010	—	785	1000	—
Mean	361	367	1355	2382	1041	303	625	1235	746	744	946	996
Ac-Ft	22200	21850	83340	146500	59890	18640	37200	75930	44390	45730	58180	59290

Maximum Discharge	Water Year Of Record	3,490 c.f.s. January 29, 1956	Total Runoff in Acre - Feet	1955 - Calendar Year	427100
				1955 - 56 Water Year	673100

Department of Water Resources station located at Mile 37.0 above junction with Sacramento River. Also known as "Colusa Trough at Tahoe-Ukiah Highway", "Colusa Trough at Colusa-Williams Highway", and "Colusa Trough at Highway 20". The flow is return water in the main drain of Reclamation District 2047. It is drainage chiefly from lands irrigated by Glenn-Colusa, Provident, Princeton-Codora-Glenn, Compton-Delevan, Maxwell, and Jacinto Irrigation Districts. Period of record 1924 to date.

TABLE 58

COLUSA BASIN DRAIN NEAR COLLEGE CITY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	331	362	163	*2120	*2590	*689	*839	*904	*1170	694	844	1150
2	368	360	145	*2030	*2170	*620	*903	*815	*1170	726	895	1190
3	386	370	118	*1740	*1730	*585	*806	*889	*1080	755	909	1220
4	392	389	114	*1300	*1250	*530	*646	*1240	*1030	758	912	1260
5	412	378	100	*1120	*958	*491	*610	*1500	*991	723	970	1280
6	339	368	165	*945	*776	*446	*570	*1650	*869	720	1070	1300
7	334	373	264	*805	*642	*410	*656	*1710	*860	704	1060	1310
8	339	334	182	*1610	*527	*390	*637	*1730	*821	752	987	1360
9	389	321	321	*1910	*454	*383	*635	*1680	758	765	1020	1430
10	389	331	490	*1880	*413	*368	*624	*1540	733	739	1020	1450
11	456	318	426	*2100	*388	*342	*582	*1450	749	701	1050	1510
12	400	326	323	*2070	*370	*316	*819	*1440	678	717	1060	1570
13	368	360	246	*1950	*353	*298	*896	*1400	669	739	1050	1630
14	375	678	224	*2210	*332	*300	*763	*1330	666	771	1060	1620
15	360	589	202	*2580	*309	*292	*692	*1240	752	868	1050	1590
16	355	384	204	*2750	*290	*277	*619	*1230	810	919	1030	1470
17	347	349	189	*2950	*286	*267	*552	*1270	807	905	1090	1330
18	326	357	*264	*3060	*270	*254	*594	*1320	794	858	1120	1240
19	334	321	*1500	*3040	*268	*245	*559	*1420	797	885	1120	1200
20	362	310	*2500	*2940	*575	*245	*437	*1450	868	854	1140	1200
21	381	316	*2850	*2760	*1650	*256	*385	*1370	892	831	1170	1140
22	378	310	*3350	*2580	*1880	*244	*298	*1400	933	895	1190	967
23	381	284	*3600	*2410	*2120	*227	*287	*1410	878	905	1180	851
24	406	323	*3700	*2200	*2460	*206	*258	*1350	824	831	1170	755
25	375	339	*3600	*2390	*2180	*200	*352	*1350	787	790	1160	634
26	362	282	*3500	*2660	*1710	*210	*669	*1160	774	834	1160	553
27	365	242	*3320	*2910	*1150	*476	*1430	*979	723	797	1140	559
28	370	219	*3180	*3250	*821	*508	*1340	*964	730	831	1130	565
29	381	202	*3080	*3360	*660	*306	*1130	*966	726	837	1120	529
30	373	182	*2900	*3160		*399	*1030	*958	669	871	1110	499
31	378	—	*2700	*2850	—	*682	—	*1060	—	868	1140	—
Mean	371	343	1417	2311	1030	370	687	1296	834	801	1069	1146
Ac-Ft	22830	20380	87110	142100	59270	22730	40900	79690	49600	49280	65710	68170

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	451400
			1955 - 56 Water Year	707800

Department of Water Resources station located on Back Borrow Pit of Reclamation District 108 at Mile 22.7 above junction with Sacramento River. Also known as "Back Borrow Pit near College City" and "Colusa Trough near College City". This is drainage chiefly from lands irrigated by Glenn-Colusa, Provident, Princeton-Codora-Glenn, Compton-Delevan, Maxwell, and Jacinto Irrigation Districts. Period of record 1946 to 1952 and 1954 to date. Flows estimated due to extreme backwater conditions.

* Estimated

TABLE 59

RIDGE CUT AT KNIGHTS LANDING

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1		0	0				*598	*59	*613	69	71	21
2		0	0				*694	*43	*582	69	71	21
3		0	0				*577	*42	*520	69	71	21
4		0	0				*373	*59	*469	69	71	21
5		0	0				*203	*430	*440	69	71	21
6		0	0				*130	*1020	*325	69	71	21
7		0	0				*87	*1280	*167	69	72	21
8		0	0				*70	*1410	*74	69	72	21
9		0	18				*74	*1490	*52	69	72	21
10		0	59				*101	*1520	*36	69	72	21
11		0	130				*159	*1510	*30	69	72	21
12		0	51				*254	*1500	*38	70	72	21
13	N	0	3.0	SEE FOOTNOTE			*382	*1470	*50	70	72	21
14	O	0	0				*466	*1410	*55	70	72	21
15		0	0				*418	*1370	*59	70	72	21
16		0	0				*341	*1300	*69	70	72	21
17	F	0	0				*232	*1240	*77	70	72	21
18	L	0	0				*184	*1250	*66	70	72	21
19	O	0	36				*143	*1280	*62	70	72	21
20	W	0	*82				*100	*1380	*65	70	72	21
21		0	*218				*69	*1420	*70	70	72	21
22		0	*670				*64	*1430	*80	70	72	21
23		14	*3570				*60	*1450	*70	70	72	21
24		8.2	*3900				*61	*1500	*66	70	72	21
25		0	*2700				*61	*1510	*60	70	72	21
26		0	*3800				*68	*1450	*59	70	72	21
27		0	*4560				*174	*1360	*57	70	72	21
28		0	*5000				*350	*1190	*58	70	72	21
29		0	*4700				*277	*1060	*59	70	72	20
30		0	*3850				*142	*923	*59	70	72	20
31		—	*3000		—		—	*699	—	70	72	—
Mean	0	0.7	1172				230	1131	150	69.6	71.8	20.9
Ac-Ft	0	44	72090				13710	69530	8900	4282	4415	1245

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1933 - Calendar Year	106700
			1955 - 56 Water Year	

Flow is principally Colusa Basin drainage diverted to the Ridge Cut by checking at Knights Landing Outfall Gates. Winter flows are uncontrolled. Summer flows for irrigation are controlled at the Outfall Gates and at the junction with Yolo Bypass by weir boards and gates. Period of record 1933 to date. Due to extreme backwater conditions, flow could not be computed from January through March. Flows listed are based on poor record and insufficient measurements and should not be considered to have the same degree of accuracy as the records of other gaging stations published in this report. Records computed by Department of Water Resources.

* Estimated

TABLE 60

COLUSA BASIN DRAIN AT KNIGHTS LANDING

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept
1	375	445	227				0	*836	616	500	695	1080
2	378	427	202				0	776	634	552	695	1140
3	408	438	184				502	670	670	572	700	1200
4	434	441	153				*580	626	660	616	705	1270
5	471	460	129				*626	396	644	652	710	1340
6	438	467	139				*626	0	714	632	855	*1460
7	393	475	58				*652	0	774	612	960	*1500
8	378	445	0				*580	0	794	616	850	*1500
9	408	438	0				*458	0	758	624	850	*1530
10	445	412	203				*512	0	646	628	910	*1550
11	508	423	572				*476	0	676	*624	900	*1570
12	505	382	792				484	0	973	*588	970	*1610
13	453	382	602	N	N	N	502	0	1500	568	970	1660
14	434	616	397	O	O	O	502	0	1720	592	960	1680
15	434	816	306				590	0	1770	656	960	1680
16	412	686	297				*616	0	1840	748	950	1660
17	408	542	312	F	F	F	*616	0	1870	818	955	1600
18	390	495	246	L	L	L	608	0	908	725	985	1530
19	378	472	12	O	O	O	618	0	716	*725	1010	1480
20	397	441	0	W	W	W	580	0	724	*785	1010	1180
21	427	449	0				512	0	740	*735	1020	1110
22	445	237	0				458	0	780	715	1140	1020
23	453	0	0				388	0	804	760	1130	896
24	471	488	0				308	0	796	775	1090	800
25	471	532	0				194	0	756	*675	1090	720
26	453	348	0				362	0	740	640	1090	664
27	430	364	0				580	0	676	660	1080	616
28	430	338	0				732	0	648	660	1070	632
29	438	276	0				836	0	648	665	1060	624
30	453	248	0				*854	466	536	695	1040	592
31	453	—	0		—		—	590	—	720	1050	—
Mean	431	433	156	0	0	0	512	141	891	662	950	1230
Ac-Ft	26520	25750	9582	0	0	0	30450	8648	53020	40730	58430	73180

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1933 - Calendar Year	355500
			1955 - 56 Water Year	326300

This is drainage returned to the Sacramento River at Mile 34.15R above Sacramento, just above the Knights Landing gaging station. Flows are controlled at the Knights Landing outfall gates, Mile 0.25 above junction with Sacramento River. A portion of the flow is diverted to Ridge Cut at Knights Landing (Table 59). For total flow to Sacramento River combine with flows of Sycamore Slough (Table 61). Period of record is 1924 to date. Records computed by Department of Water Resources.

* Estimated

TABLE 61

SYCAMORE SLOUGH NEAR KNIGHTS LANDING

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	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	0.8	0.4	21.9	42.7	11.3	4.9	3.3	17.0	10.5	8.1	6.0	5.6
Ac-Ft	51	25	1349	2627	649	300	194	1044	622	499	368	332

Maximum Discharge	Water Year Of Record	Total Runoff in Acre-Feet	1955-Calendar Year	9531
			1955-56 Water Year	8060

This is drainage from Reclamation District 787 returned to Colusa Basin Drain by pumping below the Knights Landing outfall gates. This flow is not included in flow of Colusa Basin Drain at Knights Landing (Table 60). Daily distribution of flows is not available since the plant operated on an automatic float switch. Additional drainage from Reclamation District 787 is returned to the Sacramento River at Mile 37.0R above Sacramento (Table 56). Period of record 1940 to date. Records computed by Department of Water Resources.

TABLE 62

SACRAMENTO RIVER AT KNIGHTS LANDING

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	5770	5670	6770	24700	23600	24300	13100	7840	10500	6150	6820	6930
2	5730	5610	6350	24800	23400	23700	12600	7270	10800	6170	6720	7060
3	5770	5650	6140	24500	22900	23500	11800	6830	10800	6250	6350	7080
4	5770	5680	5980	24700	22700	23500	11300	6760	10600	6300	6110	7010
5	5770	5670	5780	24600	22400	23100	10900	6060	10300	6240	6110	7160
6	5740	5780	5470	24200	21700	22600	10500	8840	10600	6190	6260	7290
7	5800	5870	11400	24200	21000	22200	10100	11700	10400	6050	6410	7520
8	5680	5840	22800	23800	20500	21600	9800	14400	10100	6100	6330	7560
9	5730	5800	18000	24500	19900	21400	9850	16000	9580	6220	6410	8090
10	5920	5800	13700	24800	19300	20900	9680	17300	9140	6320	6470	8160
11	6130	5790	14400	24500	18200	19700	9730	17100	8790	6150	6550	8520
12	6170	5730	12900	24800	17600	18700	9770	17700	8310	6310	6610	8650
13	6270	5700	10800	24600	17300	17400	10700	18800	7800	6660	6580	8900
14	6260	5920	9420	24400	17100	17400	11500	18300	7510	7090	6660	9190
15	6080	6780	8600	24400	16300	17100	11200	16000	7180	7370	6550	9450
16	5820	7040	7990	24000	16100	17000	11100	14900	7240	7500	6500	9770
17	5750	6990	7530	24800	15800	16900	10700	14100	7160	7520	6500	9660
18	5610	7010	8320	25500	15300	16200	10300	13800	7240	7470	6480	9710
19	5670	6750	13600	25300	14600	15300	10200	13700	6950	7390	6560	9910
20	5610	6730	21400	25200	14400	15000	9750	13900	6750	7410	6710	9820
21	5750	7000	25000	24500	16300	14900	9160	14300	7120	7250	6580	10100
22	5740	11100	25000	24800	23600	14800	8580	14700	6950	7130	6810	10100
23	5730	15200	25000	24500	24100	14700	8240	14800	6790	7410	6830	9850
24	5830	11400	26300	24400	25200	14400	7760	14300	6480	7250	6820	9610
25	5810	9680	26600	24500	26000	13800	7450	14000	6460	6980	6780	9040
26	5760	9370	24900	24700	25600	14100	7450	12300	6320	6910	6850	8930
27	5660	8310	23800	25000	25000	14400	7700	10900	6130	6780	6900	8750
28	5560	7660	23600	25500	24500	14000	8120	10000	5950	6940	6860	8730
29	5790	7130	24200	25200	24400	13900	7190	11100	5830	7000	6820	8710
30	5620	6860	24700	24600		13700	8440	10600	6010	7050	6860	8590
31	5700	—	24800	23700	=	13200	—	10400	—	6900	6740	—
Mean	5806	7184	15850	24640	20510	17850	9822	12860	8060	6789	6598	8662
Ac-Ft	357000	427500	974400	1515000	1180000	1098000	584500	790800	479600	417400	405700	515400

Maximum Discharge	Water Year Of Record	27,800 c.f.s. December 24, 1955 27,900 c.f.s. February 9, 1942	Total Runoff in Acre-Feet	1955-Calendar Year	5945000
				1955-56 Water Year	8745000

Station is maintained jointly by Department of Water Resources and U. S. Geological Survey. It is located above the Southern Pacific railroad bridge, Mile 34.0L above Sacramento, and 0.15 mile below the point of discharge to the river of Colusa Basin Drain. Period of record April 1921 to October 1939 (low-water periods only); June 1940 to date. Records computed by U. S. Geological Survey.

TABLE 63

FREMONT WEIR FROM SACRAMENTO RIVER TO YOLO BYPASS

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1			0	53800	29100	25900						
2			0	43700	22400	19600						
3			0	36800	16200	15000						
4			0	31800	13000	11100						
5			0	28800	8130	8470						
6			0	31100	4250	6030						
7			0	27800	1030	2020						
8			0	27200	79	140						
9			0	29100	0	0						
10			0	31100	0	0						
11			0	30800	0	0						
12			0	29500	0	0						
13	N	N	0	29100	0	0	N	N	N	N	N	N
14	O	O	0	32400	0	0	O	O	O	O	O	O
15			0	61100	0	0						
16			0	125000	0	0						
17	F	F	0	156000	0	0	F	F	F	F	F	F
18	L	L	0	142000	0	0	L	L	L	L	L	L
19	O	O	0	114000	0	0	O	O	O	O	O	O
20	W	W	1830	86500	0	0	W	W	W	W	W	W
21			46900	68900	0	0						
22			97200	56000	0	0						
23			256000	52900	8610	0						
24			151000	53800	62100	0						
25			106000	53800	72000	0						
26			141000	53800	62600	0						
27			149000	57300	49400	0						
28			153000	56000	36800	0						
29			133000	50300	30800	0						
30			99800	42900		0						
31		—	73500	35700	—	0	—		—			—
Mean	0	0	45430	55770	14360	2847	0	0	0	0	0	0
Ac-Ft	0	0	2793000	3429000	826100	175100	0	0	0	0	0	0

Maximum Discharge	Water Year Of Record	293,800 c.f.s. December 23, 1955 293,800 c.f.s. December 23, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	2793000 7223000

Department of Water Resources and U. S. Corps of Engineers cooperative station located on Sacramento River at Mile 28.0R above Sacramento. Elevation of crest is 33.5 U.S.E.D. datum; length of crest is 9120 feet. Period of record 1947 to date. Records computed by Department of Water Resources.

TABLE 64

BUTTE SLOUGH TO SUTTER BYPASS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	20	206	40	32800	21300	29400	543	143	333	157	182	130
2	27	206	154	30400	16500	23200	491	151	385	168	192	116
3	26	204	181	27200	12300	18500	423	158	371	168	199	96
4	23	198	184	25400	8510	14300	380	165	369	168	192	94
5	18	195	184	24800	5880	10500	343	254	365	179	197	94
6	11	194	172	24100	4790	6980	310	583	339	180	200	97
7	11	198	254	22100	3820	5090	290	995	307	147	209	95
8	13	201	641	21300	3130	4120	277	1150	274	181	204	101
9	19	192	845	26300	2590	3270	273	1180	222	187	200	96
10	29	187	737	31300	2250	2650	269	1190	183	187	206	95
11	40	179	725	30500	2020	2250	278	1180	155	181	205	95
12	41	180	329	33400	1830	1920	301	1190	138	175	199	100
13	56	199	329	33600	1690	1710	•313	1200	133	177	197	92
14	58	153	258	31600	1590	1560	•363	1190	126	159	188	89
15	50	36	204	38700	1490	1430	•320	1160	147	186	186	95
16	44	22	153	68300	1430	1340	•288	1100	168	199	182	92
17	41	18	114	96900	1310	1280	•251	1040	165	195	200	80
18	25	23	197	91200	1170	1200	•223	982	193	173	199	118
19	14	33	825	74100	1050	1080	•227	937	233	176	181	166
20	11	55	2420	58200	1050	1040	195	928	204	188	171	184
21	14	75	19700	46300	1220	1020	167	950	157	177	176	196
22	16	278	35600	40100	3210	982	141	969	173	193	170	205
23	20	341	43600	35700	21700	933	136	1000	143	208	169	207
24	22	178	70200	33800	54800	903	120	1010	175	201	179	197
25	26	146	81500	33800	61900	859	121	•838	179	187	170	•190
26	42	122	71200	32700	57100	825	142	•672	175	186	157	•182
27	125	65	58900	37400	47800	815	165	•554	159	179	144	•158
28	172	44	57000	41000	39900	781	181	•470	179	186	152	•136
29	192	37	52700	38000	36100	722	157	•397	191	187	146	•112
30	202	29	46600	32500		662	137	•341	138	189	143	•90
31	203	—	38800	28400	—	572	—	•309	—	191	131	—
Mean	52.0	140	18830	39350	14460	4577	261	787	216	181	181	127
Ac-Ft	3195	8319	1158000	2420000	831900	281400	15520	48370	12850	11140	11160	7533

Maximum Discharge	Water Year Of Record	101,000 c.f.s. January 17, 1956	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	1287000 4809000

Department of Water Resources station located at Mawson Bridge, Mile 2.1 above junction with Sacramento River. During the summer months, flow, regulated by gates at head of slough, 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 over Moulton and Colusa Weirs. Period of record 1939 to date.

• Estimated

TABLE 65

WADSWORTH CANAL TO SUTTER BYPASS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	116	60	27	439	300	*149	158	168	226	120	106	175
2	122	55	27	402	254	*269	135	154	222	121	109	175
3	126	53	26	320	224	*247	121	129	222	138	127	171
4	*70	56	22	290	204	*226	145	175	217	142	153	192
5	*68	59	27	290	190	*206	166	185	199	118	150	250
6	*72	52	70	258	175	*186	185	201	194	137	134	270
7	*72	55	60	351	164	*166	156	222	151	148	115	255
8	*70	47	52	452	155	*146	153	230	135	161	156	195
9	*60	56	85	361	148	*127	156	213	134	143	199	170
10	*71	79	62	359	140	*109	142	219	159	104	206	150
11	*107	83	58	329	139	*93	154	219	168	103	183	170
12	62	83	52	266	134	*77	163	201	178	126	154	156
13	57	126	48	239	131	76	151	185	164	156	178	158
14	59	112	47	888	125	73	134	153	163	161	173	176
15	54	59	48	1150	120	66	104	137	153	161	176	175
16	62	49	47	1100	113	66	94	146	156	118	153	192
17	*36	43	55	1130	109	63	81	175	173	104	116	166
18	*70	41	90	713	107	58	80	210	170	103	106	178
19	*22	34	650	458	104	58	97	221	170	91	129	206
20	*102	33	1160	593	137	67	91	248	163	104	153	203
21	*220	30	1330	526	220	67	98	230	168	108	151	208
22	*189	*32	1120	590	404	90	116	236	159	118	150	170
23	*199	*34	1030	603	689	94	121	242	163	98	127	156
24	*192	*34	*946	430	607	108	151	221	175	90	118	153
25	*147	*34	*616	825	386	118	156	226	159	79	114	129
26	*156	33	*1030	807	292	104	163	182	154	38	148	116
27	*64	33	*962	692	190	67	164	206	143	14	175	106
28	60	31	*665	596	180	96	150	224	153	28	183	91
29	62	29	*488	412	65	148	150	195	137	66	170	104
30	66	26	*349	352		156	159	238	115	97	173	120
31	61	—	*507	351	—	148	—	219	—	108	158	—
Mean	93.4	51.7	379	535	214	120	136	200	168	110	150	171
Ac-Ft	5740	3076	23320	32870	12310	7386	8120	12320	10000	6750	9209	10190

Maximum Discharge	Water Year Of Record	1,390 c.f.s. December 21, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year	81280
				1955 - 56 Water Year	141300

Department of Water Resources station located at Butte House Road, Mile 3.6 above mouth. This is the discharge (measured at Weir No. 4) to the East Borrow Pit of the Sutter Bypass at Mile 16.5 (North from Chandler). This flow is made up primarily of Feather River drainage or return flows. This flow and flow of Butte Slough to Sutter Bypass (Table 64) make up the entire Feather River contribution to the Sutter Bypass. Period of record 1939 to date.

* Estimated

TABLE 66

RECLAMATION DISTRICT 1500 DRAIN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	97	46	0	465	402	275	63	194	431	364	973	513
2	180	45	0	434	385	282	63	194	322	445	973	513
3	43	41	0	398	324	229	0	194	545	364	973	513
4	0	37	0	366	328	340	0	277	320	257	973	513
5	0	42	0	352	338	228	129	191	442	445	973	445
6	0	37	64	312	338	236	91	505	311	629	973	513
7	0	36	0	374	281	237	90	187	330	734	973	574
8	213	38	126	451	252	240	90	381	339	734	1010	513
9	128	33	0	376	256	180	122	427	343	734	973	513
10	95	36	0	440	242	182	86	351	335	780	937	814
11	96	31	152	450	182	184	129	425	315	822	937	358
12	94	34	0	423	244	184	128	307	280	937	1010	423
13	67	36	0	421	229	184	128	674	284	973	973	423
14	66	35	96	537	182	184	64	414	289	937	973	357
15	95	33	0	1650	183	124	128	411	290	822	973	420
16	92	32	96	1200	183	62	64	415	292	734	973	372
17	93	36	0	1010	115	188	129	418	315	780	973	287
18	75	8.0	132	608	186	125	64	451	287	734	973	350
19	71	0	573	509	81	125	129	189	234	780	937	345
20	83	91	783	608	221	125	64	692	298	734	900	349
21	60	26	722	644	199	63	129	361	327	822	900	284
22	75	12	708	578	416	126	65	408	293	900	822	279
23	65	0	831	752	492	125	129	415	228	862	780	206
24	57	86	855	641	360	63	64	466	341	900	780	145
25	82	0	700	1380	327	125	129	476	295	900	780	150
26	72	0	1010	1580	382	63	193	408	296	862	780	151
27	56	88	928	1350	314	63	192	537	0	937	734	152
28	79	0	653	955	320	63	192	382	68	900	734	150
29	61	0	653	608	340	126	192	187	364	937	581	90
30	72	0	466	517		63	193	562	445	937	450	141
31	50	—	490	456	—	127	—	455	—	973	445	—
Mean	74.7	31.3	324	672	279	159	108	386	309	764	875	362
Ac-Ft	4596	1862	19910	41350	16070	9761	6424	23710	18360	46950	53830	21530

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	288000
			1955 - 56 Water Year	264400

This is drainage returned, via Sacramento Slough, to the Sacramento river by pumping and gravity at Mile 21.2L above Sacramento. Period of record 1930 to date. Records computed by Department of Water Resources.

TABLE 67

SACRAMENTO SLOUGH TO SACRAMENTO RIVER

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	283	204	281				1160	781	1330	639	515	810
2	253	215	267		F	F	1200	796	1230	665	544	828
3	171	217	262		L	L	1480	746	1320	623	666	833
4	187	224	231		O	O	1250	717	1020	645	574	853
5	211	230	237		O	O	1050	913	1130	638	530	947
6	211	212	290		D	D	790	1560	1540	609	545	1020
7	205	243	698		E	E	746	1350	1370	619	647	1310
8	200	374	601		D	D	539	1280	1200	606	672	1540
9	357	313	1570				584	1390	1180	610	681	1580
10	226	280	1260				447	1390	1060	580	656	2080
11	223	242	1100		2400	3020	202	1580	980	568	641	273
12	277	276	1030		2960	2750	487	1420	987	557	645	1510
13	307	248	844	F	3310	2900	654	1560	1070	505	688	1350
14	301	252	659	L	3380	2480	653	2280	871	522	707	
15	244	237	541	O	3380	2260	641	2900	779	552	706	N
16	241	337	421	O	3360	2130	781	2690	710	604	680	O
17	237	319	419	D	2970	1850	653	2190	818	627	688	
18	300	297	525	E	2380	1610	678	1620	705	610	697	R
19	292	254	936	D	2230	1480	662	1530	738	562	683	E
20	276	286			1600	1180	550	1630	716	578	678	C
21	242	268				1190	624	1400	768	535	729	O
22	200	404	F		F	1150	708	1240	774	517	769	R
23	232	763	L		L	1160	638	1090	727	504	753	D
24	189	771	O		O	1160	614	1120	711	541	739	
25	190	671	O		O	1130	737	1550	687	529	742	634
26	174	680	D		D	1140	552	1860	761	500	746	559
27	185	464	E		E	1210	535	2130	679	472	750	492
28	188	331	D		D	1440	793	2120	756	444	738	450
29	201	292				1810	1100	2780	689	411	781	356
30	205	252				1790	894	2840	703	459	749	404
31	211	—			=	1380	—	1980	—	484	810	—
Mean	233	338					747	1627	934	559	682	
Ac-Ft	14320	20140					44430	100000	55560	34340	41950	

Maximum Discharge	Water Year Of Record	Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year

During low flow, this represents the entire outflow of the Sutter Bypass area and Reclamation District 1500 Drain (Table 66) to the Sacramento River at Mile 21.2L above Sacramento. Sharp rises in Sacramento River elevations will cause zero or negative flow. During high flow, the slough is entirely submerged as it lies within the Bypass area. Tisdale Weir (Table 52), Butte Slough to Sutter Bypass (Table 64), Wadsworth Canal to Sutter Bypass (Table 65), and Reclamation District 1500 Drain when combined will give the measured flow into the Bypass area which enters the Sacramento River between Mile 20.9 and 28.0 above Sacramento. Period of record 1924 to date. Records computed by Department of Water Resources.

TABLE 68

LITTLE LAST CHANCE CREEK NEAR CHILCOOT

Date	Daily Mean Flow in Second-Feet Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept
1	0.9	1.9	•2.3	154	•93	•50	•410	242	97	•9.0	•3.3	1.2
2	0.9	1.9	•2.4	127	•93	•50	•370	244	88	•8.0	•3.2	1.2
3	0.9	1.8	•2.2	100	•93	•51	•320	246	80	• .4	•3.1	1.2
4	0.9	1.7	•2.0	79	•93	•52	•320	314	75	• .2	•3.0	1.2
5	1.0	2.2	•3.5	61	•93	•53	•330	273	69	•7.0	•2.9	1.2
6	1.0	2.1	5.8	69	•93	•54	•400	266	63	•6.8	•2.8	1.2
7	1.0	1.7	1.9	74	•92	•55	•400	242	54	•6.6	•2.6	1.2
8	1.0	1.7	3.4	82	•90	•56	•345	216	50	•6.4	•2.5	1.2
9	1.0	1.9	3.4	66	•89	58	•294	221	47	•6.2	•2.4	1.2
10	1.1	2.7	2.5	69	•86	62	316	208	45	•6.0	•2.2	1.2
11	1.2	3.1	2.5	66	•86	66	298	187	43	•5.8	•2.1	1.2
12	1.1	2.9	3.1	63	•83	66	278	166	41	•5.6	•2.0	1.3
13	1.0	3.6	2.2	62	•82	67	273	155	37	•5.6	•1.9	1.6
14	1.1	4.7	2.7	73	• 9	69	273	148	36	•5.4	•1.7	1.6
15	1.1	4.7	2.1	139	•76	70	291	149	37	•5.4	•1.5	1.6
16	1.1	5.2	3.1	316	•76	75	289	154	34	•5.2	•1.4	1.3
17	1.1	6.0	3.6	225	•76	91	269	162	29	•5.0	1.3	1.3
18	1.2	7.0	4.0	172	•76	114	262	172	27	•4.9	1.8	1.8
19	1.5	6.8	14	154	•76	144	276	180	25	•4.7	2.0	2.4
20	1.7	2.	108	159	•75	171	302	188	25	•4.6	2.2	3.0
21	1.8	5.0	•245	149	•74	210	325	196	23	•4.5	2.6	2.6
22	1.8	•3.5	•1150	140	•72	255	347	210	22	•4.3	2.4	2.4
23	1.9	•2.3	•2500	168	•68	303	373	206	21	•4.1	2.2	2.4
24	2.1	•2.0	•2450	142	•66	•350	370	188	20	•4.4	2.0	2.4
25	2.2	•1.7	•1	125	•64	•390	367	168	18	•4.2	1.8	1.8
26	2.9	•1.8	•400	119	•60	•450	371	152	•16	•4.1	1.6	1.8
27	2.1	•2.0	•2	104	•56	•450	316	141	•14	•4.0	1.6	1.6
28	1.8	•2.2	•1	•1	•5	•425	260	130	•12	•3.8	1.6	1.6
29	1.7	•2.5	•245	•1	•52	•455	248	119	•11	•3.7	1.3	1.6
30	1.9	•2.4	•210	•		•480	240	115	•10	•3.6	1.3	1.6
31	1.9	—	•188	•9	=	•435	—	114	—	•3.4	1.3	—
Mean	1.4	3.0	30	1	78.1	183	318	189	39.0	5.4	2.1	1.6
Ac-Ft	87	180	1790	200	4491	11260	1	11650	2319	331	131	97

Maximum Discharge	Water Year Of Record	Total Runoff in Acre-Feet	1955-Calendar Year 23720 1955-56 Water Year 75460

Department of Water Resources station located 4.5 miles north of Chilcoot. Drainage area is 85 square miles.
Period of record July 1954 to date.
• Estimated

TABLE 69

SMITHNECK CREEK NEAR LOYALTON

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	4.7	6.1	5.9	27	*22	13	*70	83	37	7.2	*6.9	3.4
2	4.7	5.9	5.5	25	*22	14	*60	83	34	7.2	*6.5	3.4
3	4.5	5.7	5.0	22	*21	16	*54	83	32	7.5	*6.1	3.4
4	4.5	5.5	6.6	22	*20	18	*56	103	29	7.2	*5.7	3.6
5	4.7	5.5	6.1	21	*19	18	*58	86	28	6.9	5.3	3.6
6	4.7	5.0	6.6	19	*18	*19	*66	82	27	6.6	*4.8	3.6
7	4.5	5.0	5.9	17	*18	*20	*81	81	25	6.4	*5.1	3.6
8	4.5	4.8	5.7	17	*17	21	*95	74	23	6.4	*5.3	3.6
9	4.7	4.8	5.7	16	*17	26	*101	81	22	5.9	*5.3	3.6
10	4.7	4.8	5.5	15	*16	28	97	72	19	5.9	*5.5	3.8
11	5.1	4.6	5.5	*15	*16	28	88	66	18	6.1	*5.5	4.0
12	5.1	4.3	5.5	*17	*15	29	82	62	15	6.1	*5.6	4.0
13	4.7	4.8	5.5	*21	15	32	77	58	15	5.9	*5.1	4.4
14	4.7	5.2	5.5	*25	15	34	73	55	15	5.7	*4.6	4.4
15	4.7	5.9	5.5	*50	*15	37	74	54	14	5.7	*4.1	4.0
16	4.7	5.5	5.5	*100	*15	40	74	56	14	5.7	3.8	4.0
17	4.7	5.5	5.5	*70	*15	47	75	57	13	5.5	3.8	4.0
18	4.7	5.7	6.4	*46	*14	54	76	59	11	5.5	4.0	4.4
19	5.1	5.9	24	*41	*14	55	81	59	12	5.5	4.4	5.3
20	5.6	6.4	28	*41	14	59	93	63	12	5.5	4.6	5.3
21	5.3	7.2	40	*38	15	*62	103	68	11	5.5	4.0	4.8
22	5.1	5.9	161	*36	16	*66	117	71	11	5.7	3.6	4.8
23	5.1	5.7	378	*43	16	*70	120	72	10	5.7	3.6	4.6
24	5.1	5.2	130	*36	14	*76	123	68	9.6	5.5	3.4	4.4
25	5.9	5.7	85	*31	14	*78	117	63	9.2	5.5	3.4	4.4
26	8.1	5.9	97	28	13	*83	116	56	8.6	*15	3.8	4.6
27	7.5	5.5	64	*27	13	*80	94	53	8.4	*9.0	3.8	4.6
28	7.5	5.5	51	*26	13	*76	86	48	8.1	*8.5	3.8	4.8
29	6.9	5.5	42	*25	13	*77	85	46	7.8	*8.1	3.8	4.6
30	6.6	5.5	35	*24		*82	83	42	7.5	*7.7	3.6	4.8
31	6.4	—	32	*23	—	*81	—	40	—	*7.3	3.6	—
Mean	5.3	5.5	41.0	31.1	16.0	46.4	85.8	65.9	16.9	6.7	4.6	4.2
Ac-Ft	327	326	2520	1912	922	2854	5107	4054	1004	412	282	250

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	6777
			1955 - 56 Water Year	19970

Department of Water Resources station located four miles southeast of Loyalton. Drainage area is 20 square miles.
Period of record July 1954 to date.
* Estimated

TABLE 70

WEBBER CREEK NEAR SIERRAVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	6.7	7.1	9.4	57	*40	19	*102	143	102	98	51	19
2	6.7	7.1	8.2	47	*38	20	*93	140	100	90	48	19
3	6.7	7.1	7.9	40	*35	23	*86	152	100	84	45	19
4	7.1	7.1	6.7	36	*33	23	*84	213	95	81	44	18
5	7.1	7.9	8.2	46	*31	23	*88	183	88	91	41	19
6	7.1	8.2	23	36	29	25	*94	176	86	94	41	18
7	7.1	7.5	13	31	27	23	*104	167	102	90	38	18
8	7.5	7.1	10	29	26	23	*116	153	102	90	37	18
9	7.5	7.1	11	26	24	25	*123	152	100	88	35	18
10	9.0	7.1	9.4	24	23	26	129	138	100	86	35	19
11	8.6	7.1	8.6	22	23	26	120	129	97	84	35	19
12	8.2	7.1	8.6	21	23	25	112	120	93	86	33	19
13	8.2	7.1	8.2	26	23	26	102	109	97	88	33	19
14	8.2	8.2	8.2	32	21	28	98	104	108	85	31	19
15	7.9	8.6	7.9	107	21	29	94	104	108	83	29	19
16	7.9	9.0	8.2	138	22	32	96	108	107	85	29	18
17	8.2	9.4	9.4	97	21	39	97	110	112	87	28	18
18	8.6	9.8	14	81	21	47	104	114	114	85	28	18
19	9.0	13	110	72	19	54	117	116	117	85	29	22
20	9.4	18	113	69	20	59	133	124	113	83	29	24
21	8.6	18	87	60	20	73	149	132	112	83	26	23
22	8.6	9.8	299	70	24	84	163	140	112	80	25	21
23	8.2	8.6	505	78	25	96	172	148	115	83	24	20
24	8.6	8.2	317	65	21	110	179	144	114	87	22	20
25	8.6	8.6	206	66	21	121	182	139	112	86	22	20
26	9.8	7.9	258	65	20	*111	180	134	112	84	22	19
27	8.6	7.9	192	62	20	*106	156	127	115	78	21	19
28	7.9	7.5	134	54	19	*100	145	118	115	71	21	18
29	8.2	7.9	103	*50	19	*107	143	113	112	69	21	15
30	7.9	7.5	83	*47		*115	146	110	106	64	20	14
31	7.9	—	69	*44	—	*112	—	107	—	56	20	—
Mean	8.0	8.8	85.7	54.8	24.4	55.8	124	134	106	83.4	31.1	19.0
Ac-Ft	495	521	5268	3368	1406	3431	7353	8265	6280	5125	1910	1129

Maximum Discharge	Water Year Of Record	583 c.f.s. December 23, 1955 583 c.f.s. December 23, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	21460 44550

Department of Water Resources station located 1.4 miles south of Sierraville. Period of record July 1954 to date.
* Estimated

TABLE 71

MILLER CREEK NEAR SATTLEY

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	3.2	4.5	4.1	14	*11	6.5	9.7	22	55	35	14	9.2
2	3.2	4.5	4.8	12	*11	6.2	9.0	23	56	34	14	9.2
3	3.2	4.5	4.5	11	*10	6.2	8.7	27	60	34	14	9.0
4	3.2	4.6	6.8	11	*9.7	6.2	8.7	41	57	33	14	9.0
5	3.2	5.0	5.2	11	*9.2	6.2	9.4	32	52	31	13	9.0
6	3.2	4.8	7.5	10	*8.8	*6.0	10	32	51	30	14	8.7
7	3.2	4.6	5.8	9.7	*8.4	6.0	12	29	51	29	14	8.7
8	3.2	4.5	4.8	9.4	8.2	6.0	13	29	52	28	13	8.5
9	3.4	4.5	4.8	9.2	8.5	6.0	14	28	54	27	13	8.7
10	3.9	4.5	4.5	9.0	8.2	6.0	13	25	55	26	13	9.0
11	3.7	4.5	4.5	8.7	8.2	6.0	13	24	54	26	12	9.0
12	3.6	4.3	4.5	8.5	8.0	5.8	11	22	53	25	12	8.7
13	3.4	3.6	4.5	9.2	7.8	*8.0	11	21	53	24	12	8.7
14	3.2	4.5	4.3	10	7.8	8.0	9.9	21	51	23	12	8.2
15	*3.2	*5.0	4.3	27	7.8	7.5	9.7	24	51	23	12	8.2
16	*3.2	4.8	4.3	30	7.5	7.5	9.7	27	48	22	12	7.8
17	*3.2	4.8	4.3	18	7.5	7.5	9.7	28	48	21	12	8.0
18	*3.2	5.0	4.5	16	7.8	7.5	11	30	48	21	12	8.2
19	3.4	6.7	13	15	7.8	7.5	13	33	48	20	12	11
20	3.6	11	32	14	7.5	7.3	15	38	46	20	12	9.0
21	3.4	8.0	35	14	8.0	7.8	17	44	45	20	11	8.5
22	3.2	4.8	118	16	7.8	8.0	19	49	44	19	11	8.0
23	3.2	*5.0	157	18	7.8	9.0	20	53	44	19	11	7.8
24	3.2	5.4	57	16	7.3	9.7	23	51	43	18	11	7.3
25	3.2	5.0	35	15	7.3	10	23	50	41	16	11	7.5
26	4.8	4.6	35	14	6.9	10	21	50	40	16	11	7.3
27	4.8	4.5	26	14	6.9	9.4	18	50	40	16	11	7.3
28	4.6	4.3	21	14	6.9	9.4	18	47	40	15	11	7.1
29	4.6	4.1	17	*13	6.7	9.7	19	48	38	14	11	7.1
30	4.5	4.1	16	*13		11	21	50	36	14	10	7.1
31	4.5	—	14	*12	—	11	—	53	—	14	10	—
Mean	3.6	5.0	21.4	13.6	8.1	7.7	14	35.5	48.5	23.0	12.1	8.4
Ac-Ft	219	298	1315	836	469	474	832	2184	2884	1414	744	497

Maximum Discharge	Water Year Of Record	213 c.f.s. December 23, 1955 213 c.f.s. December 23, 1955	Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year	5684 12170

Department of Water Resources station located one mile south of Sattley. Drainage area is 7.6 square miles.
Period of record September 1954 to date.
* Estimated

TABLE 72

MIDDLE FORK FEATHER RIVER NEAR PORTOLA

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1			37	*845	*495	662	1090	903	406	38	20	0.6
2			37	762	*495	688	1010	839	418	35	22	0.6
3			39	717	*490	*710	909	788	331	33	24	0.5
4			39	606	*490	*730	845	1050	300	31	26	0.4
5			40	627	*490	*750	845	954	288	28	26	0.4
6			42	*650	*485	*770	852	1060	266	26	25	0.3
7			44	*680	*480	*790	896	1100	238	25	25	0.3
8		*8.2	52	*720	*478	813	941	1070	191	29	23	0.3
9		4.4	73	*750	*475	903	970	1020	145	61	22	0.3
10		9.4	88	775	*475	1170	986	962	149	41	22	0.3
11		13	80	749	*472	*1250	948	928	136	31	20	0.3
12		15	72	871	*470	*1380	994	864	117	25	18	0.3
13		15	65	1020	*470	*1410	1140	788	104	22	16	0.3
14		16	59	1410	470	*1100	1360	693	97	19	13	0.3
15		17	51	*2470	458	1130	1520	627	97	16	10	0.3
16		17	48	*2760	458	1130	1480	576	60	16	6.1	0.3
17		17	46	*2870	458	1230	1330	535	63	13	3.4	0.2
18		17	50	2100	454	1410	1180	509	58	12	11	0.3
19		17	104	1400	454	1510	1160	499	57	12	6.3	0.4
20		20	441	1180	450	1560	1130	514	57	13	3.9	0.5
21		24	*2180	1080	398	1520	1130	535	55	13	3.4	0.4
22		24	*3620	935	325	1460	1160	545	52	13	2.6	0.3
23		27	*6930	928	294	1430	1220	555	49	13	2.3	0.3
24		30	*8760	948	294	1400	1210	525	45	13	1.7	0.4
25		36	*6430	704	331	1430	1180	494	45	14	1.5	0.4
26		35	*4900	535	678	1480	1240	490	45	20	1.3	0.3
27		34	*4800	509	672	1460	1270	494	46	19	1.1	0.3
28		35	*2910	688	678	1310	1250	486	45	19	1.0	0.3
29		36	*2190	*505	652	1220	1140	470	44	18	0.9	0.3
30		36	*2040	*500		1220	994	458	42	18	0.7	0.3
31		—	*1440	*495	—	1160	—	478	—	19	0.7	—
Mean			1539	1025	475	1167	1113	704	135	22.7	11.6	0.4
Ac-Ft			94630	63050	27350	71770	66210	43260	8025	1398	714	21

Maximum Discharge	Water Year Of Record		Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year	

Department of Water Resources station located two miles east of Portola. Recorder installed November 8, 1955.
* Estimated

TABLE 73

RED CLOVER CREEK NEAR GENESEE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	11	12	15	*294	*135	76	*514	*348	134	*27	17	15
2	11	12	15	*243	*137	77	*416	*348	125	*26	17	14
3	11	12	15	*206	*137	80	*386	*341	117	*24	16	14
4	12	12	15	179	*139	88	*416	*510	110	*23	16	14
5	13	12	16	151	*124	85	*514	*451	104	*23	16	14
6	12	12	21	136	*80	85	*541	*428	96	*23	16	14
7	12	12	22	134	*76	82	*696	*404	91	*22	16	14
8	12	12	18	122	*72	82	*652	*352	86	*21	15	14
9	12	12	19	116	*80	92	*628	*315	81	*21	15	13
10	15	12	18	117	90	100	*588	*321	76	*20	15	14
11	15	12	17	120	80	110	*528	*291	*71	*20	15	13
12	14	12	18	120	85	113	*488	*258	*66	*19	15	13
13	13	13	16	132	85	119	*501	*233	*62	*19	15	14
14	12	13	16	*213	85	125	*554	*213	*60	*18	16	14
15	12	13	16	*658	80	132	*574	*197	*70	*18	15	14
16	12	13	17	*949	72	147	*532	*188	*64	*17	15	14
17	12	14	19	*506	90	*186	*488	*186	*60	*17	15	14
18	12	14	24	*386	87	*243	*492	*190	*56	*16	15	14
19	12	15	*165	*338	80	*315	*545	*201	*53	*16	15	19
20	13	20	*525	*355	63	*404	*583	*210	*50	*16	16	19
21	12	26	*542	*324	51	*523	*628	*220	*47	*16	17	17
22	11	17	*1910	*321	64	*663	*642	*228	*45	*16	17	18
23	11	14	*4000	*420	80	*780	*652	*236	*43	*16	16	17
24	11	14	*3450	*270	77	*871	*637	*236	*40	18	16	17
25	11	14	*605	*199	74	*995	*598	*228	*37	18	16	18
26	13	14	*861	*210	77	*957	*598	*213	*35	28	16	19
27	13	14	*678	141	78	*707	*523	*195	*34	22	15	17
28	14	14	*508	*139	78	*623	*435	*179	*31	21	15	16
29	13	14	*403	*138	77	*652	*386	*162	*30	19	15	16
30	11	14	*330	*137		*623	*365	*149	*29	18	15	17
31	11	—	*267	*136	—	*550	—	141	—	18	15	—
Mean	12.2	13.8	470	255	87.3	345	537	264	66.8	19.9	15.6	15.3
Ac-Ft	752	821	28880	15690	5024	21190	31930	16210	3973	1222	960	912

Maximum Discharge	Water Year Of Record	*4,180 c.f.s. December 23, 1955
		*4,180 c.f.s. December 23, 1955

Total Runoff in Acre - Feet	1955 - Calendar Year	51530
	1955 - 56 Water Year	127600

Department of Water Resources station located five miles east of Genesee. Drainage area is 120 square miles.
Period of record August 1954 to date.
* Estimated

TABLE 74

INDIAN CREEK NEAR TAYLORSVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	22	32	38	*695	641	372	*1840	1860	962	197	71	34
2	24	34	38	*582	634	383	*1680	1900	898	183	71	34
3	23	34	38	*512	641	406	*1500	1920	871	183	69	35
4	24	34	30	*446	634	443	*1600	2810	826	174	62	35
5	24	36	34	*415	546	448	*1700	2470	758	166	60	33
6	24	36	53	*427	355	410	*1800	2360	701	154	60	33
7	24	36	58	472	322	397	*1900	2200	646	150	63	33
8	24	36	55	408	306	402	*2000	1950	608	142	61	32
9	24	35	55	390	338	419	*2120	1780	585	138	59	32
10	30	34	50	421	420	456	*2300	1810	556	130	57	34
11	28	35	45	396	401	475	*2080	1570	520	127	52	35
12	26	36	45	384	406	461	1810	1360	466	119	53	37
13	26	41	44	505	393	473	1830	1210	440	119	51	37
14	27	44	41	915	392	492	1970	1140	420	122	49	34
15	27	47	38	2520	362	504	2120	1130	438	118	47	34
16	26	53	39	3740	350	531	1960	1230	407	115	45	36
17	25	53	45	1910	332	616	1890	1390	382	108	43	36
18	26	55	67	1400	320	814	1910	1480	358	98	42	39
19	27	52	*1600	1100	330	1130	2160	1540	341	92	46	68
20	30	80	*3000	1110	358	1460	2430	1680	329	83	55	87
21	30	102	*3050	1050	398	1880	2680	1850	312	77	53	70
22	30	60	*10500	979	1000	2340	2760	1970	301	77	54	67
23	30	47	*18000	1440	1100	2750	2920	2000	285	82	49	60
24	30	41	*8000	998	640	3190	2880	1830	279	*99	46	59
25	30	36	2920	827	530	3590	2720	1640	264	100	40	57
26	32	38	4640	897	469	3490	2670	1520	254	127	38	59
27	36	35	3550	657	429	2500	2300	1490	244	107	37	51
28	38	35	1870	664	410	2190	1990	1260	229	95	37	49
29	39	35	1270	649	397	2270	1880	1160	219	89	39	*46
30	36	34	*865	641		2470	1860	1140	201	81	40	*48
31	34	—	*784	641	—	2410	—	1080	—	76	38	—
Mean	28.2	43.5	1963	909	478	1296	2109	1669	470	120	51.2	44.8
Ac-Ft	1738	2590	120700	55920	27480	79680	125500	102600	27970	7394	3148	2666

Maximum Discharge	Water Year Of Record	*22,400 c.f.s. December 23, 1955
		*22,400 c.f.s. December 23, 1955

Total Runoff in Acre - Feet	1955 - Calendar Year	211700
	1955 - 56 Water Year	557400

Department of Water Resources station located 1.5 miles southesst of Taylorsville. Drainage srea is 532 square miles.
Period of record August 1954 to date.
* Estimated

TABLE 75

LIGHTS CREEK NEAR TAYLORSVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	2.4	3.6	8.0	*100	101	61	*275	339	184	*36	*16	*9.2
2	2.4	3.8	7.3	*85	99	64	*230	353	171	*35	*16	*9.2
3	2.6	4.0	7.0	*81	99	75	*200	384	163	*34	*16	*9.2
4	2.9	4.0	5.0	*101	94	84	*185	582	150	*33	*16	*9.2
5	3.3	4.2	7.0	*97	90	82	*200	460	134	*34	*16	*9.2
6	3.3	4.5	12	*105	84	74	*220	435	122	*32	*15	*9.2
7	3.3	4.2	12	104	80	*67	*235	387	115	*32	*15	*9.2
8	3.1	4.2	9.7	112	78	*68	*255	345	110	*31	*15	*9.8
9	2.9	4.2	11	97	75	*72	*270	325	107	*28	*14	*10
10	3.8	4.0	10	96	71	*74	*280	306	101	*28	*12	*9.8
11	5.6	4.0	*7.8	99	70	*70	*280	277	94	*25	*12	*9.2
12	4.0	3.8	*7.0	99	72	*71	237	246	87	*24	*12	*9.2
13	3.6	4.5	*6.4	140	72	*72	223	230	82	*24	*12	*9.2
14	3.1	5.6	*6.0	271	72	*71	233	226	86	*24	*12	*9.2
15	3.1	5.9	*5.8	748	70	*77	237	237	82	*24	*11	*9.2
16	2.9	6.4	*6.1	685	72	*93	244	267	74	*23	*10	*9.2
17	2.9	6.4	*6.8	356	67	*110	264	295	67	*23	*9.8	*9.2
18	2.9	6.7	*14	251	63	*133	309	314	62	*20	*9.8	*11
19	2.9	9.7	*204	205	66	*160	381	325	61	*20	*9.3	*23
20	3.1	18	*290	201	75	*185	449	351	59	*20	*9.8	*15
21	3.3	22	*310	194	86	*210	505	371	*56	*20	*9.8	*14
22	3.3	10	*2700	221	165	*245	533	393	*53	*19	*9.3	*13
23	3.6	8.6	*2450	290	165	*290	544	378	*50	*19	*9.8	*12
24	3.6	8.0	*550	226	109	*330	533	328	*47	*22	*9.8	*12
25	3.3	6.4	*440	201	90	*370	466	290	*45	*19	*9.8	*12
26	4.2	7.0	*530	188	80	*415	421	267	*42	*19	*9.8	*13
27	4.5	6.4	*315	171	72	*360	353	251	*38	*19	*9.8	*13
28	4.2	6.4	*230	149	66	*310	311	226	*36	*19	*9.8	*12
29	4.2	6.4	*156	134	63	*285	306	223	*38	*18	*9.8	*11
30	4.0	6.4	*128	124		*290	317	223	*36	*17	*9.1	*10
31	3.6	—	*113	110	—	*300	—	203	—	*17	*8.7	—
Mean	3.4	6.6	276	195	85.0	167	316	317	85.1	24.5	11.7	11.0
Ac-Ft	210	395	16990	11980	4891	10250	18840	19510	5062	1503	722	653

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	28930
			1955 - 56 Water Year	91010

Department of Water Resources station located seven miles northeast of Taylorsville. Drainage area is 48 square miles. Period of record September 1954 to date.
* Estimated

TABLE 76

WOLF CREEK AT GREENVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	*3.5	*3.6	*7.2	*120	*81	*66	*240	*230	48	17	9.5	8.1
2	*3.3	*3.7	*7.4	*105	*70	*66	*217	*240	46	17	9.5	8.6
3	*3.4	*3.7	*6.7	*95	*64	*75	182	*260	44	17	9.0	8.1
4	*3.4	*3.9	*7.5	*95	*62	*87	174	*290	41	17	9.0	8.6
5	*3.5	*4.1	*17	*110	*62	*87	204	*320	41	17	9.5	8.1
6	*3.5	*3.9	*14	*110	*60	*75	225	*312	38	16	9.5	8.1
7	*3.5	*3.8	*13	*130	*56	*68	237	*293	37	16	9.0	8.1
8	*3.5	*4.0	*15	*150	*54	*65	237	*275	35	15	8.6	8.1
9	*4.1	*3.9	*13	*120	*52	86	265	*256	33	15	*9.5	8.1
10	*3.9	*3.6	*11	*105	*50	100	301	*238	32	14	9.5	8.1
11	*3.6	*3.8	*9.7	*100	*47	107	285	*219	31	15	9.5	8.1
12	*3.5	*4.0	*9.5	*95	*49	96	*250	*201	30	15	9.0	8.1
13	*3.6	*4.3	*9.2	*140	*50	96	*235	*182	29	16	8.6	8.1
14	*3.6	*4.6	*8.6	*250	*50	108	*222	*164	29	17	8.6	8.1
15	*3.5	*5.6	*9.0	*350	*46	112	*239	*145	31	17	8.6	8.1
16	*3.4	*5.2	*9.5	*510	*40	*100	*232	*127	29	16	8.6	8.1
17	*3.3	*5.5	*11	*420	*40	*110	240	108	28	16	8.6	8.1
18	*3.4	*6.9	*25	*350	*40	*130	300	103	27	15	8.6	8.6
19	*3.6	*11	*210	*240	*42	*150	332	96	24	15	8.6	21
20	*3.5	*26	*360	*200	*80	*170	360	*89	24	*14	9.0	22
21	*3.5	*15	*370	*170	*200	*190	372	*85	24	12	9.0	*15
22	*3.5	*9.5	*1060	*160	*280	*220	366	*78	23	12	9.0	*12
23	*3.5	*8.3	*2500	*170	*450	*250	350	73	22	12	9.0	*12
24	*3.5	*7.7	*1900	*180	*300	*290	324	*64	22	20	9.0	*12
25	*3.4	*6.8	*740	*160	*160	*330	322	65	*20	17	8.6	*11
26	*3.5	*6.6	*560	*170	*92	*360	*310	62	*20	15	8.6	*12
27	*3.6	*6.4	*780	*170	*75	*320	*290	57	*19	13	8.1	*12
28	*3.7	*6.3	*375	*150	*70	*280	*270	55	*19	11	8.1	*12
29	*3.5	*6.1	*270	*130	*70	*260	*250	52	*19	11	7.6	*12
30	*3.4	*6.6	*180	*110		*250	*230	52	18	10	*8.1	*11
31	*3.3	—	*150	*90	—	*260	—	52	—	10	8.6	—
Mean	3.5	6.5	312	176	90.3	160	269	156	29.4	14.8	8.8	10.4
Ac-Ft	216	386	19160	10820	5538	9846	15990	9606	1751	912	543	617

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	30700
			1955 - 56 Water Year	75380

Department of Water Resources station located 100 feet above Highway 89 bridge. Period of record August 1954 to date.
* Estimated

TABLE 77

SPANISH CREEK NEAR QUINCY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	*12	*14	*28	*260	222	*215	349	440	228	66	30	17
2	*12	*14	*33	*223	218	*211	306	462	211	63	30	17
3	*12	*14	*32	*195	211	*208	278	457	208	61	30	17
4	*11	*15	*30	*210	181	*260	267	738	204	60	28	17
5	*12	*15	*31	*345	167	*262	278	824	190	61	28	17
6	*12	*15	*175	*263	153	*203	296	787	176	58	27	17
7	*12	*15	*130	*528	144	*190	314	675	167	58	26	17
8	*12	*15	*92	*500	136	187	339	570	161	56	26	18
9	*13	*15	*110	*330	130	194	371	506	158	50	24	19
10	*14	*15	*93	*350	126	208	414	457	153	50	21	18
11	*17	*15	*79	*325	123	215	403	435	150	46	21	17
12	*15	*15	*66	*280	121	201	371	398	133	44	21	17
13	*14	*16	*59	*485	121	194	344	349	123	44	20	17
14	*14	*16	*53	*800	121	197	317	321	121	44	20	17
15	*14	*17	*48	*1200	114	197	321	306	123	43	19	17
16	*13	*19	*52	*1100	119	201	321	314	123	42	17	17
17	*13	*18	*72	*690	114	225	339	333	112	42	16	17
18	*13	*20	*278	*465	116	256	360	355	108	37	16	21
19	*13	*28	*3200	*370	112	292	408	360	105	37	15	43
20	*13	*46	*2700	*360	119	321	474	376	110	36	16	28
21	*14	*150	*2100	*360	*500	344	523	392	103	36	16	26
22	*15	*48	*6400	*350	*2000	371	557	398	96	34	17	25
23	*14	*36	*7700	*505	*1850	403	576	408	92	37	18	23
24	*14	*30	*2250	*395	*1090	452	582	376	85	39	18	23
25	*14	*28	*1180	*360	506	484	576	333	81	35	19	22
26	*14	*28	*2750	*645	365	512	606	310	77	34	19	24
27	*14	*27	*1700	*508	296	446	551	299	70	34	18	24
28	*14	*26	*720	*414	260	382	474	278	66	34	18	24
29	*14	*25	*510	314	218	355	435	263	68	32	18	23
30	*14	*24	*390	270		371	430	246	66	31	17	22
31	*14	—	*345	239	—	387	—	246	—	31	16	—
Mean	13.4	26.0	1078	440	343	288	406	420	129	44.4	20.8	20.7
Ac-Ft	825	1545	66260	27050	19740	17740	24160	25810	7672	2727	1279	1232

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	113800
			1955 - 56 Water Year	196000

Department of Water Resources station located three miles west of Quincy. Drainage area is 68 square miles.
Period of record August 1954 to date.
* Estimated

TABLE 78

FEATHER RIVER NEAR OROVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	1350	1800	2550	13500	11300	10400	12900	13100	11300	4180	3060	2850
2	1260	1910	2630	12000	10400	10600	11800	13200	11400	4320	3020	2850
3	1300	1870	2200	10700	9690	11000	11000	13400	11400	4210	3040	2830
4	1430	1800	1980	11200	9320	12000	10400	23200	11300	3850	3030	2820
5	1500	1510	2180	14800	8950	12000	10600	21000	10200	3730	3030	2820
6	1590	1340	8450	14500	8560	11200	11000	18900	9340	3630	3020	2810
7	1700	1460	5170	17700	8360	10400	11600	17500	8750	3600	2860	2820
8	1450	1800	3370	19500	8150	10100	12000	16100	8060	3550	2860	2820
9	1260	1760	3920	14200	7870	10100	12700	14900	7620	3400	2880	2800
10	1460	1760	3490	13800	7710	10300	13600	14400	7300	3190	2880	2820
11	1800	1760	2260	13300	7730	10700	13600	14700	7200	3020	2880	2860
12	1700	1550	2570	12200	8000	10600	12900	13500	6860	2950	2820	2850
13	1640	1460	2780	16500	7990	10700	12200	12400	6580	2910	2800	2850
14	1630	1750	2900	35000	7930	10800	11800	11900	6500	2880	2860	2840
15	1590	1920	2770	59500	7790	10600	11900	11800	6640	2860	2880	2840
16	1560	1920	2920	49100	7420	10600	11700	12400	6810	2920	2800	2760
17	1450	2200	4620	31500	7000	11200	12000	13200	6460	3030	2860	2730
18	1450	2450	7110	24300	6450	12000	11900	13600	6460	2990	2880	2790
19	1590	2410	50500	19900	6420	12900	12600	13500	6460	2880	2860	2970
20	1670	2430	65900	19300	13000	13600	13700	14200	6260	2720	2830	3040
21	1670	4700	49500	19000	17000	13900	14700	14700	6000	2490	2830	2960
22	1680	3330	150000	19000	41300	14300	15300	15100	6060	2560	2850	2860
23	1370	2360	172000	22500	43900	14900	16300	15400	6020	2880	2850	2820
24	1440	2120	90800	18800	22200	15700	16500	14600	5730	3180	2860	2790
25	1680	2100	43300	19000	16900	16700	16300	13800	5250	3170	2850	2800
26	1740	2040	62300	22300	14000	17500	16900	13200	4860	3150	2830	2800
27	1800	1740	49600	20500	12600	16000	15400	12900	4410	3150	2830	2800
28	1820	1810	31200	16700	11500	14000	14000	11700	4440	3150	2850	2800
29	1760	1810	20400	14800	11100	13200	13300	11300	4450	3130	2860	2800
30	1540	1920	16700	13400		13300	13000	11600	4550	3090	2880	2760
31	1610	—	14500	12400	—	13400	—	11700	—	3070	2850	—
Mean	1564	2026	28410	20030	12430	12410	13120	14290	7156	3221	2887	2832
Ac-Ft	96180	120600	1747000	1232000	715100	763000	780700	878500	425800	198000	177500	168500

Maximum Discharge	Water Year Of Record	203,000 c.f.s. December 23, 1955 230,000 c.f.s. March 19, 1907	Total Runoff in Acre - Feet	1955 - Calendar Year	3628000
				1955 - 56 Water Year	7303000

U. S. Geological Survey and Department of Water Resources cooperative station located 75 feet above highway bridge and 4 miles northeast of Oroville, Mile 71.0 above mouth. Drainage area is 3,611 square miles. Period of record January 1902 to date. Records computed by U. S. Geological Survey.

TABLE 79

FEATHER RIVER NEAR GRIDLEY

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	783	1180	2050	17400	12200	11000	12 00	11300	8720	1840	988	933
2	583	1240	2580	15900	11200	10700	11800	11400	8600	1780	941	972
3	543	1280	2170	14100	10400	10900	11000	11300	8600	1790	956	980
4	563	1240	1880	13200	9820	11200	10400	17200	8580	1730	949	949
5	636	1130	2020	15800	9340	11500	10000	20200	8040	1570	949	956
6	736	944	6740	15400	8930	11400	10200	18100	7280	1470	949	995
7	806	906	5530	15700	8630	10700	10700	16600	6700	1390	887	1040
8	843	1190	3300	21700	8330	10200	11200	15400	6160	1360	773	1160
9	583	1220	3460	16000	8040	9990	11700	14000	5630	1330	809	1220
10	668	1220	3430	14100	7840	10000	12400	13100	5340	1190	858	1210
11	1110	1220	2410	14000	7660	10300	12900	13000	5250	1050	887	1350
12	1110	1170	2360	12800	7810	10500	12600	12300	5110	925	873	1380
13	1030	1150	2640	14000	7840	10300	11900	11200	4650	837	780	1450
14	1010	1530	2720	29800	7770	10500	11500	10400	4320	802	830	1530
15	999	1760	2620	50800	7700	10400	11300	9890	4110	788	866	1600
16	1020	1760	2710	53100	7510	10200	11400	9970	4110	795	837	1630
17	950	1880	3480	35600	7170	10400	11400	10400	4010	802	809	1610
18	887	2160	5310	27700	6800	11000	11400	10800	3820	809	873	1600
19	912	2330	29500	22800	6450	11800	11500	11000	3700	795	887	1750
20	1020	1960	63000	20500	9000	12600	12200	11200	3620	752	866	1960
21	1020	3740	43800	20600	16200	13200	13200	11900	3470	408	866	1990
22	1030	3240	*125000	19100	29500	13600	13700	12200	3320	429	887	1970
23	906	2320	*160000	23000	46400	14100	14400	12700	3240	508	880	1940
24	777	2090	*110000	20600	27100	14900	14800	12300	3140	995	887	1920
25	971	1960	49500	19600	19700	15800	14600	11500	2900	1020	887	1940
26	1100	1920	47100	21300	16300	16700	15000	10900	2580	1000	887	1980
27	1130	1850	51800	22600	14000	16400	14300	10500	2320	1060	858	1980
28	1170	1700	35200	18600	12700	14400	12900	9720	1950	1060	866	2010
29	1170	1720	26200	16200	11800	13200	11900	9030	1850	1040	887	2020
30	1030	1860	21300	14600		12800	11400	8700	1840	1030	902	2010
31	944	—	18700	13400	—	12900	—	9050	—	1000	910	—
Mean	904	1696	27050	20970	12050	12210	12310	12170	4765	1076	880	1534
Ac-Ft	55620	100900	1663000	1289000	741000	726500	732300	748300	283600	66160	54120	91310

Maximum Discharge	Water Year Of Record	Total Runoff in Acre-Feet	1955-Calendar Year	2786000
			1955-56 Water Year	6597000

Department of Water Reaourcea station located at Gridley Bridge, Mile 49.7 above mouth. Period of record 1944 to date.
* Estimated

TABLE 80

SOUTH HONCUT CREEK NEAR BANGOR

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept
1		0	7.3	192	82	83	14	9.5	5.8	0.9	0	0
2		0	10	118	70	74	14	8.8	5.6	0.9	0	0
3		0	5.7	87	63	67	14	46	5.4	1.0	0	0
4		0	3.5	158	58	64	14	137	4.8	0.9	0	0
5		0	14	144	52	62	13	43	4.8	0.8	0	0
6		0	868	95	47	56	12	38	4.6	0.8	0.2	0
7		0	69	440	44	50	12	28	4.4	0.6	1.6	0
8		0	32	264	40	48	11	22	4.0	0.6	0.9	0
9		0	53	130	36	46	11	16	3.7	0.4	0.1	0
10		0	22	119	35	43	11	18	3.5	0.4	0.1	0
11		0	15	95	34	40	20	20	3.2	0.4	0.1	0
12		0	13	78	32	37	22	17	3.0	0.3	0.1	0
13	N	0.8	10	275	30	36	16	14	2.9	0.3	0.1	0
14	O	2.4	8.2	1180	29	33	15	12	2.9	0.3	0	0
15		3.9	7.2	1690	27	28	14	11	3.0	0.3	0.1	0
16		3.2	11	442	25	27	13	10	2.9	0.3	0	0
17	P	5.4	94	217	24	26	11	8.8	2.6	0.2	0	0
18	L	4.5	289	150	24	24	10	8.0	2.5	0.2	0	0
19	O	5.2	1670	125	39	24	9.8	7.8	2.6	0.2	0	0.1
20	W	5.7	533	192	839	24	9.5	7.2	2.6	0.2	0	1.0
21		12	474	141	428	23	8.8	7.0	2.5	0.1	0	1.4
22		6.8	1260	396	1030	23	8.3	6.5	2.4	0.1	0	0.8
23		4.6	1440	270	498	22	8.3	7.0	2.1	0.1	0	0.1
24		8.0	354	153	192	20	8.3	8.3	2.0	0.1	0	0.1
25		5.0	150	416	211	19	9.2	8.3	1.8	0.1	0	0.1
26		3.5	1050	509	160	20	27	7.5	1.6	0.1	0	0
27		[illegible]	275	353	134	18	20	7.0	1.4	0.1	0	0
28		7.5	138	204	112	18	13	6.8	1.2	0	0	0
29		2.3	96	146	99	16	11	6.5	1.0	0	0	0
30		2.1	80	117		15	10	6.3	0.9	0	0	0
31		—	107	98	—	15	—	5.8	—	0	0	—
Mean	[illegible]	2.7	295	290	155	35.5	13.0	18.0	3.1	0.4	0.1	0.1
Ac-Ft	[illegible]	160	18170	17840	8910	2180	774	1110	182	21	6	7

Maximum Discharge	Water Year Of Record	6,340 c.f.s. December 23, 1955 6,340 c.f.s. December 23, 1955	Total Runoff in Acre-Feet	1955-Calendar Year	25300
				1955-56 Water Year	49360

U. S. Geological Survey and Department of Water Reaources cooperative station located 2.3 miles southeast of Bangor and 1[illegible] miles above mouth. Drainage area is 30.5 square miles. South Honcut Creek is an east-side tributary, via Honcut Creek, to the Feather River at Mile 43.7L above mouth. Period of record October 1950 to date. (Prior records available at a site eight miles downstream.) Records computed by U. S. Geological Survey.

TABLE 81

FEATHER RIVER AT YUBA CITY

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	1170	1240	1940	18600	*13000	11500	13300	10200	10200	2690	1220	1270
2	900	1440	2710	17700	*12000	10900	12200	10400	9300	2450	1180	1370
3	796	1520	2520	14800	*11000	11200	11100	11300	9740	2470	1150	1380
4	740	1500	2210	12900	*10300	11600	10200	15700	10100	2280	1180	1370
5	801	1420	2050	*16400	9740	11900	9900	23800	9100	2020	1210	1360
6	858	1200	5860	*16500	9230	12100	10100	21300	7530	1870	1210	1400
7	985	1060	9460	*16200	8760	11200	10600	*19400	6700	1750	1190	1450
8	1080	1150	5000	*22000	8360	10500	11200	*17100	6420	1700	1080	1550
9	924	1370	4210	*18000	8000	10400	11800	*15700	6130	1650	1080	1690
10	784	1320	4370	*15000	7680	10400	12600	*14400	5860	1490	1120	1660
11	1150	1290	3500	*15000	7440	10600	13500	*13200	5900	1330	1170	1690
12	1420	1280	2690	*14000	7500	10800	13200	*12000	5720	1200	1170	1840
13	1400	1240	2910	*14200	7520	10700	12200	*10900	5200	1100	1140	1840
14	1320	1590	2950	*28800	7390	10700	11400	*9810	5100	1050	1070	1940
15	1270	1800	3000	*54000	7270	10700	11000	9140	5000	1080	1120	2010
16	1270	1910	2990	*56000	6980	10600	10800	9320	4860	1050	1150	2090
17	1270	2030	3400	*38000	6660	10700	10800	10400	4670	1100	1080	2040
18	1150	2310	5620	*30000	6400	11400	10600	11700	4560	1180	1130	2020
19	1120	2520	*18700	*24500	5990	12200	10600	11800	4660	1090	1170	2140
20	1200	2230	*61100	*21200	9120	13000	11200	12400	4620	1050	1190	2390
21	1270	3070	*58000	*21100	18800	13600	12300	14200	4210	942	1160	2480
22	1270	3990	*74200	*21000	21200	14000	13100	15300	4150	784	1180	2440
23	1260	3020	NR	*24000	47900	14500	13800	16500	4110	829	1190	2400
24	1020	2470	NR	*22000	41000	15400	14400	16800	4020	954	1200	2380
25	1030	2230	NR	*21000	26400	16400	14400	14800	3770	1210	1220	2320
26	1270	2180	NR	*23000	20200	17500	14800	13700	3370	1230	1220	2350
27	1390	2120	NR	*24000	15900	17700	15100	12600	3140	1270	1230	2350
28	1440	1840	NR	*20000	13600	15800	12900	*12100	2730	1250	1210	2350
29	1430	1900	NR	*17500	12300	13900	11200	10400	2860	1270	1220	2340
30	1350	1910	NR	*15600		13300	10400	10000	2740	1290	1220	2340
31	1170	—	NR	*14000	—	13400	—	10300	—	1240	1250	—
Mean	1145	1872		22160	13370	12540	12020	13440	5549	1415	1171	1942
Ac-Ft	70430	111400		1363000	768900	770800	715400	826500	330200	87010	72020	115500

Maximum Discharge	Water Year Of Record	Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year

Department of Water Resources station located at Yuba City-Maryaville "5th Street" highway bridge (Sacramento Northern Railroad bridge), Mile 28.0R above mouth. Backwater from the Yuba River at times affects the stage-discharge relationship of this station. Period of record 1944 to date.

* Estimated

TABLE 82

YUBA RIVER AT ENGLEBRIGHT DAM

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	250	220	580	6230	5390	3740	3920	4100	7610	2290	710	690
2	175	200	505	5940	4830	3640	3490	5680	6630	2240	715	690
3	170	220	545	5180	4520	3680	3210	6600	7620	1770	713	690
4	170	244	595	5330	4240	3760	3040	13100	8050	1320	710	680
5	170	250	600	9120	3970	3950	3070	11000	6470	1200	705	680
6	0	250	620	7350	3750	3640	3210	9540	5160	1200	705	680
7	142	250	640	6600	3480	3350	3410	8860	4720	1180	710	678
8	170	250	640	7640	3320	3210	3610	7740	5270	1070	705	670
9	175	250	645	6120	3150	3150	3820	6950	5320	1030	700	670
10	175	250	650	6180	3040	3150	4270	6760	5770	945	702	670
11	250	234	655	6340	2940	3030	4330	6760	6250	920	705	665
12	310	248	630	5720	2840	2950	4020	5900	5520	805	705	660
13	250	270	570	6930	2790	2890	3550	4960	4960	716	705	660
14	234	320	670	19200	2710	2870	3290	4660	5140	712	705	653
15	235	370	680	34100	2610	2870	3070	4560	4420	712	705	645
16	210	425	690	28800	2440	2870	2960	5280	3600	712	705	645
17	222	490	690	16600	2400	2950	3010	7210	3370	712	710	642
18	160	450	640	11700	2430	3200	3070	7550	3660	712	706	640
19	170	380	25200	9350	2430	3400	3350	7520	3970	712	700	640
20	230	350	34100	8950	4330	3480	3730	8940	3660	710	710	635
21	232	510	22200	9450	5360	3570	4290	11000	2920	710	710	637
22	250	570	98900	9720	8020	3630	4490	12100	3230	710	710	640
23	222	575	122000	14700	15400	3790	4900	13100	3140	705	710	620
24	130	570	48600	10900	7810	4050	5170	13200	3200	700	700	395
25	180	575	20800	11200	6040	4430	5280	11300	2840	705	658	307
26	383	578	26700	13900	5250	4800	6040	10200	2760	708	695	310
27	390	580	23800	13300	4530	4460	5320	11500	2820	707	690	315
28	372	580	13400	9890	4140	4080	4460	8780	3040	710	695	319
29	311	585	9450	8060	4050	3950	4080	7620	2710	650	695	325
30	208	585	7560	6860		4080	3940	7900	2270	705	690	325
31	235	—	6660	6070	—	4210	—	7850	—	707	690	—
Mean	219	388	15180	10560	4421	3575	3913	8330	4537	948	702	583
Ac-Ft	13450	23070	933500	649400	254300	219800	232900	512200	270000	58280	43190	34660

Maximum Discharge	Water Year Of Record	Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year
	148,000 c.f.s. December 23, 1955 148,000 c.f.s. December 23, 1955		1762000 3245000

U. S. Geological Survey, U. S. Corps of Engineers, and Department of Water Resources cooperative station located above spillway of Englebright Dam, Mile 22.8L above U. S. Highway 99E bridge. Drainage area is 1,110 square miles. For total flow of Yuba River near Smartville combine with flows of Deer Creek near Smartville (Table 83). Period of record October 1941 to date. Records computed by U. S. Geological Survey.

TABLE 83

DEER CREEK NEAR SMARTVILLE

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	5.0	6.1	146	726	450	356	206	45	12	5.2	7.4	5.6
2	5.0	6.6	58	585	410	337	198	43	8.2	4.5	7.4	6.0
3	5.2	6.6	31	450	374	332	190	97	6.4	4.2	7.4	5.8
4	5.0	6.3	20	571	353	327	180	393	6.4	4.6	8.9	5.4
5	5.0	6.3	50	1350	332	343	168	123	10	4.3	8.2	5.8
6	4.9	6.3	1590	699	308	327	156	95	10	4.3	8.2	6.0
7	4.7	5.8	148	845	290	303	140	85	8.2	4.3	6.4	7.0
8	4.9	5.5	107	766	277	292	135	76	8.2	4.3	5.6	8.9
9	4.9	5.3	178	523	257	281	135	77	8.6	3.8	5.4	8.6
10	12	5.0	77	569	253	272	140	78	8.6	3.9	5.6	7.4
11	14	5.3	50	498	247	263	99	84	6.4	4.0	5.6	6.2
12	9.4	5.3	42	450	241	251	99	85	6.2	4.2	5.6	5.0
13	7.5	10	37	638	236	247	86	75	5.6	4.3	5.6	5.2
14	7.5	29	34	2620	229	243	82	69	5.4	4.2	5.4	5.4
15	7.2	22	31	3910	224	239	95	64	5.2	4.5	5.2	6.0
16	6.8	22	41	1990	216	234	128	54	4.2	5.2	5.4	5.4
17	6.3	64	115	1150	214	230	102	41	4.6	5.0	6.2	5.2
18	6.6	35	392	835	225	230	67	36	5.4	4.6	6.4	5.4
19	5.6	36	4440	645	241	232	44	32	5.4	5.4	6.6	26
20	5.5	35	1790	681	1740	239	35	29	6.4	5.2	7.8	24
21	4.9	90	914	633	740	234	34	27	6.0	5.6	6.0	24
22	4.6	36	4700	1190	1250	225	31	24	5.4	6.0	5.2	21
23	4.3	25	5650	939	1450	225	29	22	5.2	5.6	6.0	22
24	4.2	35	1260	641	605	222	30	22	4.3	5.0	6.0	20
25	4.2	23	656	1420	691	225	35	22	4.0	4.8	6.0	18
26	5.6	17	2940	1560	569	224	189	20	3.9	4.6	6.6	16
27	6.6	17	1600	1500	456	222	118	20	3.9	4.3	6.6	15
28	6.8	16	928	855	404	219	73	20	4.3	6.2	6.2	15
29	6.6	16	668	645	393	214	60	9.7	3.8	6.4	7.0	15
30	6.3	14	530	554		209	52	10	3.8	8.2	5.8	13
31	6.1	—	540	495	—	209	—	10	—	8.9	5.8	—
Mean	6.2	20.4	960	998	472	258	105	60.9	6.2	5.0	6.4	11.3
Ac-Ft	383	1210	59030	61350	27120	15880	6220	3740	369	309	392	673

Maximum Discharge	Water Year Of Record	11,300 c.f.s. December 23, 1955 11,300 c.f.s. March 9, 1955 and December 23, 1955	Total Runoff in Acre-Feet	1955-Calendar Year 81350 1955-56 Water Year 176700

U. S. Geological Survey and Department of Water Reaourcea cooperative station located one mile above mouth. Drainage area is 84.6 square miles. Deer Creek enters the Yuba River one mile below Englebright Dam. For total flow of Yuba River near Smartville.combine with flows of Yuba River at Englebright Dam (Table 82). Period of record June 1935 to date. Records computed by U. S. Geological Survey.

TABLE 84

DRY CREEK AT VIRGINIA RANCH

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	1.5	1.4	23	572	286	317	81	47	26	12	5.9	6.2
2	1.5	1.3	11	377	260	286	76	45	25	10	6.2	6.2
3	1.5	1.3	7.2	260	243	271	70	112	22	9.5	6.4	5.7
4	1.6	1.3	6.9	417	225	260	69	493	21	8.9	6.4	5.5
5	1.8	1.4	47	659	213	266	68	181	21	8.6	6.4	5.9
6	1.4	1.4	2070	360	194	230	66	136	21	6.2	6.4	6.2
7	1.2	1.4	277	679	181	210	64	110	21	5.9	6.4	5.9
8	1.0	1.3	107	711	170	203	63	99	20	6.2	6.4	5.9
9	1.1	1.3	178	356	158	192	61	79	19	6.4	6.2	5.7
10	2.0	1.3	89	360	154	176	62	76	18	6.4	5.9	5.5
11	1.8	1.3	54	292	149	164	103	85	17	6.2	5.7	5.5
12	1.3	1.2	40	236	145	154	118	70	17	6.2	6.2	5.5
13	1.2	2.4	33	643	138	150	87	60	17	6.4	6.4	5.5
14	1.2	3.6	28	3280	132	141	85	53	16	6.4	6.6	5.3
15	1.3	2.4	25	4560	125	134	76	49	17	6.4	6.4	5.1
16	1.3	2.9	45	1190	116	131	70	45	17	6.4	6.4	4.9
17	1.3	6.9	204	605	115	127	64	42	16	6.4	6.6	4.9
18	1.5	4.8	691	457	115	122	54	40	15	6.2	6.4	4.9
19	1.4	4.6	5150	388	129	116	47	38	14	6.2	6.4	7.2
20	1.4	4.8	1920	565	2000	114	46	37	14	6.2	6.4	5.5
21	1.4	9.8	1430	401	1370	110	44	35	14	6.2	6.4	5.3
22	1.4	5.9	4820	1020	2470	106	43	35	13	6.2	6.4	5.3
23	1.4	6.9	4270	743	1850	103	42	33	12	5.9	6.4	5.1
24	1.3	8.2	1110	446	614	99	40	32	12	5.9	6.2	5.1
25	1.3	5.9	453	1020	614	93	45	30	12	6.4	6.2	5.1
26	2.0	5.2	2200	1350	512	64	175	29	10	6.2	6.2	5.1
27	1.8	5.0	745	900	431	28	115	28	9.5	5.9	6.2	5.1
28	1.5	5.0	413	600	388	77	72	26	8.3	5.9	6.2	5.1
29	1.4	5.0	289	450	381	71	60	26	5.9	6.2	6.2	5.1
30	1.4	5.0	241	377		55	52	26	7.2	6.2	6.2	5.1
31	1.4	—	370	333	—	84	—	26	—	5.9	6.2	—
Mean	1.4	3.7	884	798	479	150	70.6	71.7	15.9	6.8	6.3	5.5
Ac-Ft	88	219	54360	49000	27530	9230	4200	4410	948	417	387	326

Maximum Discharge	Water Year Of Record	9,120 c.f.s. December 22, 1955 9,120 c.f.s. December 22, 1955	Total Runoff in Acre-Feet	1955-Calendar Year 78970 1955-56 Water Year 151200

U. S. Geological Survey and Department of Water Reaources cooperative station located 0.4 mile south of Virginia Ranch and 5.5 miles east of Loma Rica. Drainage area is 71.3 square miles. Dry Creek enters the Yuba River at Mile 11.0H above mouth. Period of record October, 1948 to date. Records computed by U. S. Geological Survey.

TABLE 85

YUBA RIVER NEAR MARYSVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	168	107	540	8100	6410	4730	4290	3880	7310	1700	334	319
2	168	79	728	7280	5760	4550	3850	4670	6340	1400	340	319
3	77	70	658	6150	5380	4550	3600	5860	6940	1150	340	310
4	58	86	636	6740	5340	4610	3370	9960	7380	1050	340	328
5	54	112	636	11800	4730	4820	3370	13100	6490	1000	349	334
6	50	116	3330	8770	4450	4430	3500	10700	5240	940	346	349
7	47	116	1400	8800	4130	4070	3680	10200	4630	860	346	370
8	46	116	856	9830	3940	3910	3870	8980	4990	780	343	373
9	44	110	964	7360	3720	3820	4080	7990	5170	700	346	385
10	46	99	828	7470	3600	3770	4530	7630	5280	645	352	385
11	44	94	734	7420	3480	3620	4480	7450	5540	560	343	391
12	46	80	698	6640	3370	3510	4240	6900	5280	480	346	388
13	130	101	692	8850	3300	3440	3810	6040	4760	400	349	388
14	84	180	680	28300	3200	3400	3540	5550	4830	340	346	385
15	88	240	674	47100	3080	3380	3320	5290	4450	340	349	394
16	73	279	692	33200	2890	3370	3230	5480	3670	340	346	409
17	73	431	771	19000	2840	3430	3240	6660	3470	340	343	403
18	77	471	1250	13400	2880	3670	3130	7640	3540	340	337	409
19	62	453	24200	10800	2930	3860	3220	7490	3690	340	343	468
20	51	359	42800	10800	10100	3950	3860	8230	3700	343	343	474
21	47	516	26000	11000	8840	4020	4410	9610	3100	343	343	450
22	50	610	113000	13000	14200	4070	4610	10300	2900	361	331	446
23	79	610	136000	17100	20600	4220	4700	10900	2800	352	331	443
24	75	625	52100	12400	9640	4470	5020	11000	2900	346	331	403
25	71	610	22400	14700	7960	4840	5150	9770	2200	343	325	382
26	51	595	34000	18200	6840	5150	5800	9210	2100	343	316	330
27	234	595	26900	16700	5850	4740	5780	8540	2200	340	334	340
28	222	590	15200	11900	5320	4450	4780	8440	2400	340	325	340
29	211	595	10700	9600	5200	4310	4180	7460	2100	337	325	340
30	144	605	8570	8170		4400	3930	7380	2100	316	322	335
31	84	—	7940	7230	—	4590	—	7260	—	337	322	—
Mean	88.8	322	17310	13160	5861	4134	4086	8051	4250	574	338	380
Ac-Ft	5460	19140	1064000	808900	337200	254200	243100	495000	252900	35320	20800	22590

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	
	136,000 c.f.a. December 23, 1955	1955 - Calendar Year	1819000
	136,000 c.f.a. December 23, 1955	1955 - 56 Water Year	3559000

U. S. Geological Survey and Department of Water Reaources cooperative station. It was located at Mile 5.2L above U. S. Highway 99E bridge when washed out by high water in December 1955. The recorder installation at Mile 0.9, Simpaon Lane bridge, was used to compute flows for the balance of the period. Period of record August 1954 to date. Records computed by U. S. Geological Survey.

TABLE 86

FEATHER RIVER BELOW SHANGHAI BEND

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	1350	1450	2580	*26700	*19400	*16200	*17600	15800	18000	4920	*1520	*1700
2	1110	1690	3270	*25000	*17800	*15400	*16000	16500	16500	4470	*1520	*1700
3	951	1790	3170	*21000	*16400	*15800	*14700	18100	17200	4300	*1520	*1700
4	861	1770	2890	*19600	*15600	*16200	*13600	23300	17700	3830	*1520	*1700
5	909	1710	2710	*28200	*14500	*16700	*13300	33300	16500	3360	*1520	*1700
6	951	1530	6660	*25300	*13700	*16500	*13600	30700	13800	3080	*1520	*1920
7	1070	1370	10400	*25000	*12900	*15300	*14300	28700	12300	2890	*1520	*1960
8	1180	1430	5960	*31800	*12300	*14400	*15100	25900	12100	2770	*1520	2060
9	1070	1660	4970	*25400	*11700	*14200	*15900	23200	11800	2680	*1520	2210
10	900	1630	5120	*22500	*11300	*14200	*17100	21500	11400	2440	*1520	2210
11	1190	1560	4290	*22400	*10900	*14200	*18000	20900	11500	2240	*1520	2250
12	1470	1540	3370	*20600	*10900	*14300	*17900	20300	11200	2010	*1520	2410
13	1500	1530	3540	*23000	*10800	*14100	16900	18200	10100	1880	*1520	2430
14	1430	1860	3610	*57100	*10600	*14100	15900	16500	9900	1780	*1470	2550
15	1380	2130	3670	*101000	*10400	*14100	15400	15600	9500	1760	*1650	2640
16	1400	2310	3630	*89200	*9870	*14000	15100	15800	8920	1710	*1650	2760
17	1400	2490	3960	*57000	*9500	*14100	15200	17500	8550	*1640	*1650	2740
18	1310	2770	6190	*43400	*9280	*15100	15100	19500	8370	*1640	*1650	2710
19	1260	2960	*40000	*35300	*8920	*16100	15100	19700	8480	*1640	*1650	2890
20	1340	2780	*91600	*32000	*19200	*17000	16000	20600	8480	*1640	*1650	3230
21	1400	3210	*103000	*32100	*27600	*17600	17400	23000	7620	*1640	*1650	3330
22	1420	4570	*153000	*34000	*35400	*18100	18500	24500	7430	*1640	*1650	3290
23	1420	3750	NR	*41100	*68500	*18700	19400	26000	7360	*1640	*1650	3250
24	1230	3130	NR	*34400	*50600	*19900	20300	26700	7310	*1640	*1650	3230
25	1190	2860	NR	*35700	*34400	*21200	20500	24300	6930	*1640	*1650	2940
26	1420	2790	NR	*41200	*27000	*22600	21200	22700	6240	*1640	*1650	2940
27	1670	2730	NR	*40700	*21800	*22400	21700	21300	5810	*1640	*1650	2940
28	1760	2470	NR	*31900	*18900	*20200	19200	20700	5370	*1640	*1650	2940
29	1770	2520	NR	*27100	*17500	*18200	17200	18400	5380	*1640	*1650	2930
30	1660	2520	NR	*23800		*17700	16200	17800	5040	*1640	*1650	2930
31	1420	—	NR	*21200	—	*18000	—	18000	—	*1580	*1650	—
Mean	1303	2284		35310	19230	16660	16780	21450	10230	2279	1590	2540
Ac-Ft	80120	135900		2171000	1106000	1025000	998500	1319000	608500	140200	97750	151100

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	
		1955 - Calendar Year	
		1955 - 56 Water Year	

Department of Water Reaources station located at Mile 23.0R above mouth. Station is rated above 30,000 c.f.s. by means of aimultaneous measurements of Yuba River at Maryaville and Feather River at Yuba City with appropriate time lag. Severe allting conditions and shifting control neceasitated the estimating of much of the aummer flow. Station was washed out by high water on December 23, 1955 and reinstalled on January 7, 1956. Period of record 1944 to date.

* Estimated

TABLE 87

BEAR RIVER NEAR WHEATLAND

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	5.5	9.6	170	1990	1420	1080	460	384	189	5.8	5.0	5.4
2	5.8	8.9	218	1980	1270	979	450	356	175	9.5	5.0	6.6
3	6.1	9.6	96	1570	1160	944	420	348	160	11	5.0	3.5
4	8.5	11	69	1280	1120	895	397	1400	140	23	5.0	3.8
5	6.8	12	69	3820	1080	993	361	1010	123	14	5.4	5.0
6	7.5	11	1540	2810	1010	951	348	758	113	9.5	5.4	6.2
7	5.8	12	421	1850	972	848	305	704	145	9.5	7.2	3.0
8	5.8	13	221	2120	930	764	321	770	121	9.5	10	3.0
9	7.5	15	438	1460	895	776	424	710	69	11	9.5	6.2
10	17	12	249	1470	842	752	680	728	34	13	8.7	6.6
11	76	5.5	174	1380	806	680	867	740	24	12	7.9	7.2
12	71	4.9	147	1190	758	658	902	824	17	11	9.5	7.2
13	69	5.5	132	1210	704	669	818	776	18	7.2	10	6.2
14	69	12	120	5470	716	642	800	664	18	6.6	7.9	7.2
15	65	46	110	10700	669	603	764	608	16	6.6	7.9	6.6
16	60	36	98	8650	608	608	740	542	12	5.8	7.9	7.2
17	69	82	160	4080	581	592	704	485	10	6.2	7.2	7.2
18	124	89	393	2790	592	581	450	465	8	5.8	8.7	9.5
19	67	73	7070	2260	592	570	406	440	7	4.7	9.5	16
20	26	73	9390	2130	1810	570	370	430	6	4.7	9.5	15
21	20	130	3170	2120	2170	554	251	384	5	5.0	7.9	14
22	16	102	22000	2590	1850	537	118	352	4	5.0	7.2	13
23	14	73	22100	4110	4850	537	82	325	4	4.4	6.6	16
24	19	87	13000	2410	2480	520	63	321	3	4.7	6.6	15
25	19	71	4520	4400	1900	495	48	281	2	4.7	6.2	12
26	20	60	7420	4240	1880	470	42	277	2	9.5	6.6	10
27	20	51	5650	4380	1440	470	704	293	2	7.2	3.5	10
28	18	42	3200	2950	1260	480	554	253	3	5.4	3.8	10
29	17	37	2410	2220	1180	450	425	220	4.4	5.0	7.9	10
30	15	36	1940	1870		430	217	192	5.0	5.0	7.9	26
31	10		1840	1610		435		172		5.0	7.2	
Mean	31.0	41.0	3501	3004	1295	662	450	523	48.0	7.98	7.21	9.15
Ac-Ft	1900	2440	215300	184700	74470	40730	26760	32160	2860	491	444	545

Maximum Discharge	Water Year 33,000 c.f.s. December 22, 1955 Of Record 33,000 c.f.s. December 22, 1955	Total Runoff in Acre-Feet	1955-Calendar Year 312900 1955-56 Water Year 582800

U.S. Geological Survey and Department of Water Resources cooperative station located at U.S. Highway 99E bridge, Mile 11.3 above mouth. Drainage area is 295 square miles. Bear River enters the Feather River above Nicolaus at Mile 12.0L above mouth. Period of record October 1928 to date. Records computed by U.S. Geological Survey

TABLE 88

DRY CREEK NEAR WHEATLAND

Date	Daily Mean Flow in Second-Feet Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	5.0	0.2	4.5	242	102	76	17	0				0
2	7.3	0.1	37	231	89	69	17	11				0
3	4.8	0	22	146	84	64	16	9.6				0
4	5.0	0	13	122	77	60	15	103				0
5	4.0	0	9.3	487	72	59	15	71				0
6	2.4	0	303	318	66	55	13	46				0
7	2.2	0	104	253	62	48	13	40				0
8	6.2	0	43	508	58	47	12	34				0
9	.3	0	65	183	54	45	12	31				0
10	6.7	0	51	178	51	42	12	46				0
11	17	0	31	156	49	40	18	51				0
12	28	0	19	115	47	35	31	49				0
13	1[illegible]	0	12	174	46	34	28	46	N	N	N	0
14	11	0	9.0	2350	43	34	25	37	0	0	0	0
15	7.8	0.1	7.6	3970	41	31	21	34				0
16	5.0	5.0	7.6	1130	37	28	18	31				0
17	2.7	12	12	340	35	27	14	31	F	F	F	43
18	1.7	27	69	202	37	26	9.6	30	L	L	L	6.9
19	1.7	15	33[illegible]	150	3[illegible]	25	8.3	27	O	O	O	6.1
20	2.1	12	1750	242	41[illegible]	24	6.1	19	W	W	W	6.1
21	3.[illegible]	15	478	190	218	24	11	9.3				12
22	5.0	[illegible]	2[illegible]	557	238	24	16	0				4.0
23	3.[illegible]	16	4710	86[illegible]	728	24	10	0				2.2
24	1.7	11	135[illegible]	332	160	27	9.0	1.0				3.9
25	1.3	11	319	1[illegible]10	213	22	10	2.4				0
26	1.3	8.7	1910	911	270	21	33	0.9				0
27	1.2	[illegible].[illegible]	[illegible]84	800	125	18	72	0				0
28	0.[illegible]	[illegible].1	[illegible].48	401	9[illegible]	17	42	0				0
29	[illegible].[illegible]	4.9	158	212	87	18	34	0				0
30	0.[illegible]	4.[illegible]	12[illegible]	15[illegible]		19	12	0				0
31	0.[illegible]	—	[illegible]15	123	—	18	—	0	—			—
Mean	[illegible].3	[illegible].0	61[illegible]	[illegible]4.3	12[illegible].5	35.5	19.[illegible]	24.[illegible]	0	0	0	2.8
Ac-Ft	[illegible].4	[illegible].9	3[illegible]	[illegible]4[illegible]20	7[illegible].[illegible]	2180	1130	151[illegible]	[illegible]	0	0	167

Maximum Discharge	Water Year 8790 c.f.s. December 23, 1955 Of Record 8790 c.f.s. December 23, 1955	Total Runoff in Acre-Feet	1955-Calendar Year 53260 1955-56 Water Year 85370

U.S. Geological Survey and Department of Water Resources cooperative station located 2300 feet above U.S. Highway 99E bridge and 1.3 miles northwest of Wheatland. Drainage area is 99.5 square miles. Dry Creek enters the Bear River at Mile 4.5R above mouth. Period of record October 1946 to date. Records computed by U.S. Geological Survey.

TABLE 89

FEATHER RIVER AT NICOLAUS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	1320	1190	3000	28300	25000	28300	18300	16200	17600	5180	1530	1550
2	1190	1460	3600	26800	22000	26300	17700	16500	16400	4680	1520	1620
3	954	1580	3200	26600	19600	25100	16800	17900	16400	4470	1480	1710
4	828	1660	2800	24900	17900	24600	15900	20200	16800	4010	1460	1740
5	858	1610	2900	25400	16900	24000	15400	31500	16600	3420	1520	1770
6	864	1500	9000	26400	16100	23400	15500	31900	14300	3020	1560	1780
7	1150	1230	11000	24700	15100	21400	15800	29000	12800	2830	1520	1830
8	996	1180	6700	27700	14500	19500	16400	26400	12300	2710	1440	1880
9	1140	1480	5440	29500	13800	17800	16900	23800	12000	2610	1330	2020
10	989	1480	5280	25800	13400	16700	17500	21900	11600	2360	1330	2160
11	940	1440	4620	25400	13200	16100	19200	20800	11600	2170	1400	2200
12	1440	1390	3630	24000	13300	15700	19400	20600	11500	1980	1400	2270
13	1530	1350	3480	24200	13200	15200	18600	19300	10600	1850	1410	2350
14	1520	1480	3620	37400	12900	14800	17600	17500	10200	1750	1350	2390
15	1520	1920	3660	83600	12500	14700	17100	16300	9950	1710	1330	2460
16	1330	2190	3600	106000	11900	14200	16700	15900	9330	1690	1380	2520
17	1360	2300	3780	79200	11100	14200	16600	16900	9140	1650	1390	2590
18	1310	2760	5480	50000	10600	14700	16400	18700	8790	1660	1360	2600
19	1220	3040	15000	37400	9870	15900	16100	19100	8820	1630	1430	2650
20	1180	2950	72200	33800	12100	17100	16400	19400	9000	1510	1500	2810
21	1260	2650	104000	34600	25500	18000	17500	20900	8400	1400	1500	3020
22	1270	4790	154000	36700	29900	18500	18500	22700	7780	1230	1490	3100
23	1260	4170	313000	38700	55000	19000	19100	23900	7780	1180	1500	3090
24	1190	3290	109000	42200	67500	19700	19700	25400	7650	1160	1510	3050
25	1070	3010	54400	42900	53300	20600	20000	24000	7530	1390	1530	2930
26	1140	2800	51300	50800	45200	21700	19900	22100	6760	1490	1520	2740
27	1340	2690	60100	49900	38100	22700	21700	20800	6210	1500	1540	2710
28	1570	2550	58900	41300	32800	21700	20000	20100	5770	1530	1550	2700
29	1570	2290	48900	33600	30000	18800	18100	18600	5610	1530	1540	2680
30	1540	2400	38500	29700		18200	16800	17400	5360	1590	1530	2660
31	1300	—	31600	26900	—	18100	—	17300	—	1570	1550	—
Mean	1231	2194	38570	38530	23180	19250	17710	21060	10490	2208	1465	2386
Ac-Ft	75670	130600	2372000	2369000	1333000	1184000	1054000	1295000	624000	135800	90050	142000

Maximum Discharge	Water Year Of Record	357,000 c.f.s. December 23, 1955 357,000 c.f.s. December 23, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 4529000 1955 - 56 Water Year 10810000

Station is maintained jointly by Department of Water Resources and U.S. Geological Survey. It was moved from Mile 9.3L to Mile 9.2L on November 29, 1955. Feather River is an east-side tributary to the Sacramento River at Mile 20.9L above Sacramento. Period of record June 1921 to December 1942 (Low-water periods only); April 1943 to date. Records for December do not include an estimated 500,000 acre-feet that bypassed station into Sutter Basin due to levee breaks. Records computed by U.S. Geological Survey.

TABLE 90

COON CREEK AT HIGHWAY 99E

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	8.3	6.5	61	374	206	118	27	54	20	0	4.5	4.5
2	13	7.2	69	341	184	110	22	58	20	0	4.5	6.0
3	15	7.2	32	238	173	105	17	65	19	0	4.5	4.0
4	12	7.9	22	208	160	97	11	297	15	0	2.2	6.0
5	9.7	13	21	*549	150	93	7.5	140	12	0	0	6.8
6	10	12	*548	436	139	86	9.0	122	10	0	4.0	2.7
7	11	13	140	378	133	80	13	104	10	0	6.0	6.0
8	7.9	11	76	*561	122	78	14	95	15	0	6.0	7.5
9	9.2	7.6	163	*301	112	76	13	109	11	0	5.2	10
10	19	7.2	83	*297	110	76	18	95	14	0	7.5	13
11	63	7.6	55	*272	107	72	56	107	10	0	2.7	10
12	42	5.1	40	215	102	67	90	102	11	0	0	10
13	35	11	33	222	98	64	64	93	10	0	4.0	10
14	30	55	28	*1440	95	60	64	85	9.8	1.8	3.2	14
15	29	54	25	*2180	92	58	60	76	12	1.4	1.4	12
16	26	44	33	*875	88	53	59	67	12	4.5	0	10
17	22	105	38	365	86	50	53	62	8.2	3.2	2.2	13
18	22	58	89	257	85	48	46	53	8.2	0	1.4	14
19	22	34	*2870	213	85	46	42	52	5.2	0	0.9	40
20	23	29	*1510	*375	502	47	35	48	7.5	6.0	0.9	58
21	22	55	*520	*301	245	44	35	48	9.0	6.0	2.2	39
22	22	36	2550	*590	210	44	33	43	10	6.0	4.5	37
23	18	26	4070	*742	661	44	34	37	3.2	3.6	2.2	37
24	*15	31	*1190	344	224	42	30	37	0	1.8	0	33
25	*12	24	*396	*1210	217	42	35	33	0	0.9	0	29
26	*11	19	*1640	919	243	39	120	37	0	4.5	3.6	26
27	*10	25	*668	866	160	38	104	37	4.5	0.9	4.0	23
28	12	33	346	500	140	35	73	37	0	4.5	4.0	24
29	12	28	279	341	133	37	62	23	0	8.2	5.2	19
30	11	24	242	279		33	56	23	0	11	6.8	12
31	8.3	—	360	238	—	26	—	20	—	9.0	7.5	—
Mean	18.8	26.5	587	530	175	61.6	43.4	72.9	8.9	2.4	3.3	17.9
Ac-Ft	1155	1579	36090	32580	10040	3784	2583	4481	529	145	200	1064

Maximum Discharge	Water Year Of Record	*6180 c.f.s. December 23, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 65480 1955 - 56 Water Year 94230

Department of Water Resources station located at U.S. Highway 99E bridge. Drainage area is 82.5 square miles. Coon Creek is an east-side tributary, via Natomas Cross Canal, to the Sacramento River at Mile 19.6L above Sacramento. Period of record 1947 to date.

* Estimated

TABLE 91

AUBURN RAVINE AT LINCOLN

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	5.8	5.6	42	201	125	80	10	65	81	65	67	65
2	5.4	5.8	37	150	105	73	10	52	80	79	71	64
3	5.6	6.0	27	112	92	67	11	87	*64	87	70	66
4	6.2	6.6	22	105	85	59	9.8	222	*58	84	70	63
5	5.6	6.8	24	696	79	60	9.5	89	*56	91	76	61
6	5.4	6.4	*234	283	74	59	9.0	79	*55	90	72	61
7	4.8	6.4	*66	236	66	57	5.5	64	*54	85	72	65
8	4.2	6.2	55	290	65	54	1.9	40	*56	83	78	63
9	4.4	5.8	67	147	58	48	2.3	42	56	81	76	62
10	11	5.6	51	153	53	52	2.2	40	54	78	77	61
11	19	6.0	38	120	50	46	12	45	54	75	74	53
12	8.0	6.2	36	101	43	52	26	50	54	76	77	42
13	5.4	9.4	36	96	48	52	21	44	57	71	78	42
14	4.6	24	35	1110	48	49	28	39	62	65	76	44
15	4.8	23	36	2140	51	44	27	38	65	63	73	45
16	4.6	25	44	572	46	40	23	45	73	65	73	43
17	5.8	46	48	260	46	38	16	50	72	62	74	39
18	5.6	26	66	184	50	34	22	60	72	62	74	26
19	5.4	24	*771	144	54	33	21	104	76	62	72	41
20	5.0	21	480	185	242	36	16	96	76	62	76	17
21	5.4	34	*176	129	99	37	21	78	75	60	75	14
22	5.0	23	*958	503	163	30	18	72	72	66	76	13
23	4.8	24	*1580	412	409	27	19	63	72	70	77	13
24	4.2	24	*426	213	138	21	34	62	75	72	74	12
25	4.0	24	*138	1400	158	25	50	53	74	70	74	11
26	5.2	19	*606	708	150	29	113	49	71	72	75	11
27	6.8	18	*228	608	108	31	100	48	70	76	79	10
28	6.6	20	*121	336	96	26	87	54	70	73	76	9.0
29	5.8	20	118	230	94	*16	78	83	67	71	76	8.0
30	5.4	20	104	187		*12	76	86	66	74	70	7.6
31	5.4	—	164	150	—	11	—	85	—	70	67	—
Mean	6.0	16.6	220	392	99.8	41.9	29.4	67.2	66.2	72.9	74.0	37.7
Ac-Ft	367	987	13560	24120	5742	2574	1748	4134	3941	4483	4552	2244

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	41000
			1955 - 56 Water Year	68450

Department of Water Reaources station located 500 feet below the Lincoln-Newcastle highway bridge. Drainage area is 34.6 aquare milea. Auburn Ravine is an east-side tributary, via Natomas Cross Canal, to the Sacramento River at Mile 19.6L above Sacramento. Period of record 1947 to date.
* Eatimated

TABLE 92

NATOMAS CROSS CANAL AT HEAD

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	10	9.3	45	*470	*360	*170	*32	*72	*14	*0.4	*0.3	7.2
2	11	8.3	58	*410	*300	*160	*32	*64	*13	*0.4	*0.3	9.1
3	7.4	7.0	100	*375	*260	*148	*28	*68	*13	*0.4	*0.3	8.5
4	11	6.1	81	*330	*235	*145	*26	*90	*12	*0.4	*0.3	7.4
5	14	7.1	59	*290	*215	*136	*21	*400	*12	*0.4	*0.3	7.1
6	15	6.8	64	*1360	*200	*128	*17	*230	*11	*0.7	*0.3	6.4
7	14	11	429	*700	*180	*122	*18	*150	*10	*0.7	*0.3	6.1
8	12	11	352	*580	*165	*118	*18	*110	*9.0	*0.7	*0.3	5.4
9	12	12	257	*900	*152	*114	*16	*82	*8.0	*0.7	*0.3	7.3
10	9.9	10	266	*420	*145	*110	*16	*70	*6.5	*0.7	*0.3	8.0
11	9.8	8.4	185	*420	*140	*112	*20	*55	*5.5	*0.7	*0.4	7.5
12	21	7.0	*141	*395	*135	*102	*72	*44	*4.5	*0.7	*0.4	28
13	34	7.8	*112	*350	*132	*102	*130	*35	*3.3	*0.7	*0.4	40
14	30	9.0	*89	*350	*131	*95	*84	*33	*2.0	*0.7	*0.4	21
15	26	21	78	*2700	*130	*88	*88	*26	*1.0	*0.7	*0.4	26
16	24	61	72	*4800	*130	*82	*62	*21	*0.8	*0.5	*0.5	18
17	22	68	82	*2000	*124	*79	*53	*21	*0.8	*0.5	*0.5	12
18	19	91	100	*560	*125	*76	*46	*21	*0.8	*0.5	*0.5	16
19	17	96	*500	*420	*128	*75	*42	*21	*0.8	*0.5	*0.5	21
20	17	67	*4000	*320	*132	*72	*38	*21	*0.8	*0.5	*0.5	49
21	18	52	*1300	*660	*830	*72	*36	*18	*0.5	*0.3	*0.9	71
22	18	63	*3400	*570	*370	*66	*34	*18	*0.5	*0.3	*0.9	65
23	16	70	*6400	*1200	*400	*63	*32	*18	*0.5	*0.3	*0.9	50
24	15	60	*3000	*1620	*1200	*59	*31	*18	*0.5	*0.3	*0.9	42
25	14	51	*1200	*660	*340	*56	*31	*18	*0.5	*0.3	*0.9	35
26	13	51	*3200	*3000	*345	*58	*31	*16	*0.5	*0.3	*1.0	32
27	10	47	*1650	*1600	*225	*60	*150	*16	*0.5	*0.3	*1.0	27
28	8.8	39	*820	*1350	*220	*52	*130	*16	*0.5	*0.3	*1.0	28
29	9.1	46	*660	*750	*190	*40	*92	*16	*0.5	*0.3	*3.2	27
30	11	49	*600	*520		*36	*77	*16	*0.5	*0.3	*6.8	25
31	10	—	*500	*420	—	*34	—	*16	—	*0.3	*6.8	—
Mean	15.5	35.1	961	984	263	91.3	50.1	58.6	4.5	0.5	1.0	23.8
Ac-Ft	950	2088	59110	60500	15150	5613	2981	3604	265	29	63	1414

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	106700
			1955 - 56 Water Year	151800

Department of Water Reaources station located approximately 3.5 miles northeast of Verona on El Centro Road bridge. Natomas Cross Canal is an east-side tributery to the Sacramento River at Mile 19.6L above Sacramento. During the first 6 months of 1956, this station was affected by severe backwater from the Sacramento River. Period of record 1949 to date.
* Estimated

TABLE 93

RECLAMATION DISTRICT 1001 DRAIN INTO NATOMAS CROSS CANAL

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1						*236	336	31	125	153		
2						*236	336	19	123	154		
3						242	336	0	127	64		
4						245	336	43	127	9.9		
5						247	211	22	129	78		
6						251	54	23	123	61		
7						259	22	96	133	0		
8						267	19	93	54	13		
9						279	34	93	137	58		
10						293	12	94	144	42		
11						302	23	24	145	29		
12						308	36	0	146	0		
13	N	N	N	N	N	310	20	72	148	0	N	N
14	O	O	O	O	O	312	20	34	149	0	O	O
15						312	18	41	149	0		
16						312	0	25	149	0		
17	F	F	R	R	R	310	33	42	150	0	F	F
18	L	L	E	E	E	310	0	90	150	0	L	L
19	O	O	C	C	C	308	31	111	150	0	O	O
20	W	W				304	0	110	150	0	W	W
21			O	O	O	300	0	104	150	0		
22			R	R	R	297	37	96	151	0		
23			D	D	D	293	0	89	151	0		
24						289	18	84	151	0		
25						285	0	84	152	0		
26						279	46	89	152	0		
27						273	0	93	153	0		
28						269	37	100	153	0		
29						273	18	97	154	0		
30						273	0	96	153	0		
31		—			=	332	—	114	—	0		—
Mean	0	0				284	67.8	68.0	141	21.4	0	0
Ac-Ft	0	0				17470	4032	4183	8386	1313	0	0

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year

This is drainage returned to the Natomas Cross Canal by pumping and gravity at Mile 0.75N. Natomas Cross Canal, the main drain between Reclamation Districts 1000 and 1001, is an east-side tributary to the Sacramento River at Mile 19.6L above Sacramento. Period of record 1940 to date.

* Estimated

TABLE 94

SACRAMENTO RIVER AT VERONA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	7020	6840	8990	59700	57400	56800	32800	24900	30900	11200	8370	8770
2	6950	6920	8970	58900	56400	56000	31900	24200	30500	10800	8370	8860
3	6720	7130	9200	58200	55600	55300	30200	24800	29800	10500	8180	9020
4	6520	7250	8720	57800	54800	54700	28400	26400	29600	10300	7860	9060
5	6520	7250	8230	57600	54000	54200	26700	32700	29500	9670	7780	9150
6	6530	7240	9130	58200	53100	53600	25600	37400	27900	9060	7880	9330
7	6540	7140	20000	57600	51800	52400	25200	39700	25600	8790	8120	9650
8	6600	7190	28100	57500	50500	50600	25400	41000	24100	8660	8100	9960
9	6940	7220	25800	57700	48300	48400	25900	41200	23200	8650	7910	10400
10	6830	7260	21300	57800	45200	45700	26400	41200	22100	8500	7990	10800
11	6890	7220	20200	57600	42100	43200	27500	40800	21500	8200	8040	10900
12	7300	7070	17800	57400	40200	40900	28900	40400	21100	7990	8180	11200
13	7720	7060	15100	57300	37800	39400	29200	40400	19000	8000	8210	11600
14	7830	7300	13600	58200	36000	38300	29100	39000	18100	8320	8180	11800
15	7520	8380	12600	61400	34700	37400	28600	36600	17500	8680	8150	12100
16	7260	9170	11700	65300	33600	36400	27900	34500	16800	8920	8080	12500
17	7160	9330	11300	66300	32300	35700	27400	33600	16600	9010	8040	12700
18	7180	9350	12800	65400	31800	35100	26800	34100	16000	9010	8000	12600
19	7040	9490	22900	64000	30600	34900	26100	34700	15800	8880	8130	12800
20	6900	9620	47800	62300	30400	34900	25900	35100	15700	8860	8250	13100
21	6950	9510	59200	61000	36800	35100	26100	35900	15600	8660	8300	13600
22	6960	13600	62400	60100	44300	35200	26500	38000	14800	8350	8450	13700
23	6960	18800	70000	60200	53600	35400	26700	40100	14700	8300	8630	13600
24	6920	15700	66200	60200	60200	35600	27300	41300	14300	8380	8590	13300
25	6720	13100	63600	60400	60700	35900	27600	42000	13800	8330	8610	12900
26	6780	12300	65400	60600	60000	36500	27900	41000	13200	8320	8610	12400
27	6820	11200	65800	60600	59000	37200	29100	39700	12200	8280	8720	12100
28	6920	10200	65800	60700	58000	37200	29800	38100	11600	8320	8740	11800
29	6960	9260	64700	60100	57400	35900	28400	35700	11100	8350	8720	11700
30	7060	8930	63000	59400		34400	26500	33000	11100	8380	8700	11500
31	6980	—	61200	58400	=	33300	—	31500	—	8470	8750	—
Mean	6968	9268	33600	59930	47120	41790	27730	36100	19460	8843	8279	11430
Ac-Ft	428400	551500	2066000	3685000	2711000	2570000	1650000	2220000	1158000	543700	509000	680100

Maximum Discharge	Water Year Of Record		Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year
	71,400 c.f.s. December 23,1955 79,200 c.f.s. March 1, 1940			9424000 18770000

Station is maintained jointly by Department of Water Resources and U.S. Geological Survey. It is located at Mile 19.6L above Sacramento, at the mouth of Natomas Cross Canal, and 1.3 miles below the confluence of the Feather River. Drainage area is 21400 square miles. Period of record 1926 to date. Records computed by U.S. Geological Survey.

TABLE 95

RECLAMATION DISTRICT 1000 DRAIN (FRITCHARD LAKE)

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	10		0	71	22							
2	10		0	72	29							
3	10		0	73	0							
4	5.0		0	73	0							
5	0		0	26	0							
6	0		0	27	0							
7	0		0	28	0							
8	0		0	0	0							
9	0		0	27	0							
10	0		0	27	0							
11	0		0	26								
12	0		0	28	0							
13	0	N	0	16	0	N	N	N	N	N	N	N
14	0	O	0	144	0	O	O	O	O	O	O	O
15	0		0	147	0							
16	0		0	140	0							
17	0	F	0	137	0	F	F	F	F	F	F	F
18	0	L	0	135	0	L	L	L	L	L	L	L
19	0	O	149	130	0	O	O	O	O	O	O	O
20	0	W	164	127	32	W	W	W	W	W	W	W
21	0		156	72	0							
22	0		141	113	0							
23	0		126	140	0							
24	0		140	84	0							
25	0		140	148	0							
26	0		140	142	0							
27	0		140	147	0							
28	0		140	147	0							
29	0		134	134	0							
30	0		134	131								
31	0	—	70	74	—		—		—			—
Mean	1.1	0	57.2	89.9	2.9	0	0	0	0	0	0	0
Ac-Ft	69	0	3520	5526	165	0	0	0	0	0	0	0

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	5297
			1955 - 56 Water Year	9280

This is drainage returned to the Sacramento River by pumping and gravity at Mile 16.0L above Sacramento. Additional water is returned to the Sacramento River at Mile 6.85L (Table 96) and at Mile 2.1L (Table 98). Records computed by Department of Water Resources.

TABLE 96

RECLAMATION DISTRICT 1000 DRAIN (#3 PLANT)

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	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	18.2	11.9	29.7	NR								
Ac-Ft	1118	709	1829									

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	16520
			1955 - 56 Water Year	

This is drainage returned to the Sacramento River by pumping and gravity at Mile 6.85L above Sacramento. Daily distribution of flows is not available since the plant operates on an automatic float switch. Additional water is returned to the Sacramento River at Mile 2.1L (Table 98) and Mile 16.0L. Period of record 1940 to date. Records computed by Department of Water Resources. Station washed out by high water in February 1956.

TABLE 97

SACRAMENTO WEIR FROM SACRAMENTO RIVER TO YOLO BYPASS

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	6330								
2			0	5570								
3			0	3890								
4			0	1890								
5			0	277								
6			0	0								
7			0	0								
8			0	0								
9			0	0								
10			0	0								
11			0	0								
12			0	0								
13	N	N	0	0	N	N	N	N	N	N	N	N
14	O	O	0	0	O	O	O	O	O	O	O	O
15			0	0								
16			0	2470								
17	F	F	0	4240	F	F	F	F	F	F	F	F
18	L	L	0	3470	L	L	L	L	L	L	L	L
19	O	O	0	828	O	O	O	O	O	O	O	O
20	W	W	0	0	W	W	W	W	W	W	W	W
21			0	0								
22			0	0								
23			19600	0								
24			48800	0								
25			43500	0								
26			45700	0								
27			45200	0								
28			36400	0								
29			27200	0								
30			19400	0								
31		—	11400	0	—		—		—			—
Mean	0	0	9587	934	0	0	0	0	0	0	0	0
Ac-Ft	0	0	589500	57450	0	0	0	0	0	0	0	0

Maximum Discharge		Total Runoff in Acre-Feet		
	Water Year Of Record 57,400 c.f.s. December 23, 1955 118,000 c.f.s. March 26, 1928		1955-Calendar Year 1955-56 Water Year	589500 647000

Department of Water Resources and U. S. Corps of Engineers cooperative station located on Sacramento River at Mile 4.2R above Sacramento. Elevation of fixed crest is 25.0 U.S.E.D. datum; elevation of movable crest (top of needles) is 31.0 U.S.E.D. datum. Weir has 48 gates, each 38 feet in length. Period of record 1926 to date. Records computed by Department of Water Resources.

TABLE 98

RECLAMATION DISTRICT 1000 DRAIN (2ND BANNON SLOUGH)

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	64		0	157	157	163	0	0	0		0	0
2	0		0	157	159	136	96	0	0		0	0
3	0		0	155	159	91	61	0	62		0	0
4	0		0	149	160	113	54	0	52		0	63
5	0		0	93	160	118	0	0	0		0	0
6	0		0	148	157	114	0	0	0		0	0
7	0		0	170	19	60	0	0	0		0	64
8	0		0	312	175	66	0	47	35		0	0
9	0		0	172	115	104	0	0	0		0	52
10	0		0	160	114	97	0	0	35		0	0
11	0		0	216	57	64	0	0	0		0	64
12	0		0	154	95	101	55	0	0		0	61
13	0	N	0	154	0	89	33	0	0	N	0	0
14	0	O	0	611	0	83	59	0	0	O	0	66
15	0		0	620	0	50	0	0	0		0	157
16	0		0	591	0	73	0	28	0		0	167
17	0	F	0	585	62	74	0	0	0	F	0	177
18	0	L	0	565	64	0	0	0	0	L	0	328
19	0	O	597	325	118	88	0	51	0	O	0	269
20	0	W	666	294	159	61	0	124	0	W	0	323
21	0		532	264	45	54	0	78	0		0	267
22	0		560	375	238	48	0	71	0		0	247
23	0		583	517	247	47	0	0	0		0	262
24	0		593	334	156	52	0	80	0		0	223
25	0		593	619	155	0	0	73	0		0	211
26	0		594	614	157	65	57	0	0		0	159
27	0		599	619	156	61	0	0	0		0	79
28	0		601	626	132	60	0	0	0		0	166
29	0		483	457	62	47	0	0	0		0	133
30	0		292	592		47	0	0	0		0	66
31	0	—	199	312	—	47	—	0	—		21	—
Mean	2.1	0	222	359	113	73.3	13.8	17.8	6.1	0	0.7	120
Ac-Ft	127	0	13670	22050	6502	4508	823	1095	365	0	42	7148

Maximum Discharge		Total Runoff in Acre-Feet		
	Water Year Of Record		1955-Calendar Year 1955-56 Water Year	28820 56330

This is drainage returned to the Sacramento River by pumping at Mile 2.1L above Sacramento. Additional water is returned to the Sacramento River at Mile 6.85L (Table 96) and Mile 16.0L. Period of record 1925 to date. Records computed by Department of Water Resources.

TABLE 99

LINDA CREEK NEAR ROSEVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	24	26	52	*406	196	96	41	45	23	14	10	22
2	24	28	72	*350	175	86	40	42	24	18	11	23
3	23	28	45	*246	163	82	38	57	22	20	12	22
4	26	28	39	*221	152	80	35	170	22	18	13	18
5	25	25	45	*592	144	77	35	81	24	18	15	15
6	25	27	246	*375	128	74	32	79	22	18	15	13
7	25	26	236	*310	114	70	32	69	22	17	15	13
8	25	27	123	*478	104	69	34	66	22	16	15	17
9	26	26	185	*266	90	64	37	69	24	15	15	19
10	31	22	118	*285	85	63	33	73	24	15	15	21
11	60	26	75	250	82	62	58	71	22	16	14	20
12	52	28	61	199	79	57	74	66	20	20	15	20
13	43	35	52	191	78	48	50	58	21	23	18	21
14	40	51	46	1070	74	54	53	51	20	21	18	21
15	35	44	*46	*2200	69	49	50	46	22	19	19	23
16	30	39	*52	734	64	48	49	41	20	17	19	25
17	30	87	*66	400	60	48	41	43	20	15	18	26
18	31	59	*114	324	63	47	40	44	18	15	20	26
19	32	44	*2000	273	69	44	31	40	18	13	21	45
20	33	44	*1100	386	360	44	31	39	18	13	24	54
21	31	54	*363	289	191	44	32	38	18	14	24	47
22	32	48	*1820	462	226	44	28	36	18	15	22	48
23	32	*43	*2900	614	474	43	28	33	15	13	18	47
24	29	*43	*840	325	184	42	29	33	15	13	18	44
25	27	40	*280	1260	167	45	34	38	15	12	22	40
26	30	34	*1170	775	213	44	68	28	15	11	22	39
27	32	32	*560	656	124	39	68	26	14	11	21	38
28	32	31	*420	412	104	43	59	23	11	12	18	39
29	32	31	*350	298	112	44	54	23	12	12	22	39
30	28	31	*280	254		47	49	24	13	12	22	38
31	27	—	*375	224	—	43	—	26	—	12	22	—
Mean	31.4	36.9	456	488	143	56.1	42.8	50.9	19.1	15.4	17.8	29.4
Ac-Ft	1928	2196	28030	30000	8220	3451	2545	3130	1138	948	1097	1751

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	62420
			1955 - 56 Water Year	84430

Department of Water Resources station located near Southern Pacific Railroad bridge 0.6 mile below Auburn Boulevard (Old U. S. Highway 99E). Linda Creek is an east-side tributary, via Back Borrow Pit of Reclamation District 1000, to the Sacramento River at Mile 1.3L above Sacramento. Period of record 1949 to date.
* Estimated

TABLE 100

INFLOW TO FOLSOM RESERVOIR

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	547	394	1060	8960	8820	5250	6980	7760	11380	3610	740	429
2	607	516	1580	8640	7980	5010	5770	8650	10460	3250	789	489
3	457	688	1180	7230	7160	4950	5300	9770	10720	2840	511	563
4	484	557	978	6870	7040	5170	5090	19260	11180	2480	659	501
5	535	639	946	17310	6770	5300	5360	15980	8550	2430	613	377
6	490	605	5000	13180	6050	4900	5530	14770	7590	2330	574	325
7	672	639	5190	10700	5700	4560	6590	13210	7540	2320	652	338
8	489	635	2580	10400	5300	4460	7030	12100	8360	2310	535	477
9	438	633	2650	8610	4870	4340	7000	12260	8690	2350	409	370
10	672	637	2890	8240	4860	4590	8280	11760	8950	2420	535	336
11	613	591	1990	7810	4540	4710	7670	11110	9130	2310	415	369
12	672	513	1650	7340	4840	4460	6500	10420	8290	1980	581	449
13	505	706	1430	7350	4520	4230	5420	9640	7850	1760	443	405
14	481	768	1710	18160	4420	4220	5000	8640	7280	1760	387	389
15	372	721	1380	45830	4560	4050	4800	8760	6660	1670	346	383
16	629	872	1500	47290	3900	4180	4670	10120	5650	1630	420	400
17	712	874	1770	22350	3940	4600	5190	11470	5410	1590	379	509
18	600	885	3440	15300	4050	4840	5740	11740	5740	1650	388	474
19	551	819	20010	12670	4200	5310	6190	11740	6530	1450	388	714
20	580	881	28240	12180	5800	5280	7710	13070	5340	1400	467	482
21	636	1840	17550	12400	5400	5260	8870	15170	5080	1500	479	557
22	601	2200	125670	13670	6080	5410	8930	16190	5170	1340	448	554
23	613	1190	189100	28880	12300	5880	10280	18320	5510	1480	294	531
24	720	976	67690	17210	7760	6810	10330	16950	5480	1600	441	657
25	677	1000	26450	23040	6990	7620	11300	14010	5150	1610	577	611
26	547	702	38860	25080	6760	8060	10500	14240	4720	1520	346	432
27	643	763	30060	23150	5790	7220	8490	14140	5070	1330	398	616
28	664	775	18150	16680	5410	6640	7410	11660	5280	1110	367	503
29	683	775	14280	13540	5840	6420	a 6680	11700	4940	972	297	479
30	631	792	11300	11240		7560	7160	11580	4170	971	409	b 573
31	715	—	10180	10200	—	7380	—	12440	—	753	450	—
Mean	[illegible]	[illegible]	[illegible]	15894	5919	5441	7059	12536	7062	1862	475	476
Ac-Ft	[illegible]	40080	[illegible]	977280	340460	334550	419490	770840	420240	114500	29230	28400

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	3620800
			1955 - 56 Water Year	4781300

These quantities are the daily mean second-feet inflow to Folsom Reservoir as computed by the U. S. Bureau of Reclamation, taking into account change in storage, release, spill, precipitation, and evaporation; and are representative of the natural flow passing the dam site if the dam had not been constructed. Drainage area is 1,875 square miles. Period of record February 1905 to date.
(a) 24-hour day
(b) 25-hour day

TABLE 101

DAILY CONTENT OF FOLSOM RESERVOIR

Date	Storage at end of day in Thousands of Acre-Feet											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	178.2	159.6	173.5	516.8	482.7	494.5	487.4	660.0	1006.5	1013.8	856.6	645.7
2	177.9	159.2	175.2	512.7	486.1	493.6	488.2	668.3	1001.8	1006.0	848.3	641.3
3	176.4	159.0	177.4	505.4	486.1	493.0	488.5	679.0	1002.3	1003.0	839.8	636.9
4	175.0	158.7	179.2	499.9	488.7	498.9	488.4	708.4	1006.4	1003.4	832.1	632.6
5	173.6	159.8	179.3	507.0	494.0	498.4	488.4	732.9	1007.7	999.7	824.1	628.1
6	172.2	160.8	187.3	497.5	494.1	495.5	490.8	756.6	1006.9	995.8	816.4	623.4
7	171.1	160.5	195.6	501.0	492.7	491.3	494.8	776.7	1002.4	992.0	810.2	618.7
8	169.7	160.2	199.2	506.5	489.9	485.7	500.1	794.1	1002.0	988.1	803.1	614.3
9	169.7	159.9	203.0	505.2	486.2	480.3	505.7	811.9	1002.4	984.0	795.8	609.7
10	168.3	159.6	208.6	503.5	484.5	478.5	514.3	828.9	1003.3	979.9	787.7	605.4
11	166.9	159.2	212.4	500.9	482.5	481.3	519.3	845.1	1004.6	976.2	779.5	601.6
12	165.6	160.0	213.5	499.3	484.9	480.0	521.8	859.7	1004.2	971.7	771.6	598.0
13	163.9	161.2	214.3	501.0	482.2	477.1	522.6	873.2	1005.2	967.2	762.8	594.2
14	162.5	161.2	216.0	514.0	478.0	474.0	524.2	883.8	1006.4	962.7	755.2	590.1
15	161.5	161.1	217.1	560.4	475.9	469.5	525.8	894.7	1007.6	957.4	746.8	587.1
16	161.9	161.3	218.3	589.4	474.1	465.3	525.0	907.5	1006.1	951.8	740.8	583.5
17	160.8	161.2	221.7	566.1	470.9	466.4	525.4	923.5	1003.4	946.5	734.8	579.8
18	159.5	161.6	228.4	529.7	467.4	465.4	531.0	940.0	1003.2	941.2	728.6	575.7
19	158.9	163.1	266.3	507.5	462.8	463.8	537.7	955.7	1005.2	936.0	722.8	572.5
20	158.5	164.7	320.4	505.7	463.3	459.8	547.7	973.5	1005.6	930.1	716.9	569.1
21	158.2	166.8	352.9	504.9	462.8	455.4	559.7	991.8	1007.2	923.8	710.9	565.8
22	159.2	169.6	583.9	507.1	464.4	451.3	573.3	992.9	1007.9	917.9	705.0	562.4
23	160.2	170.4	865.1	524.4	477.9	448.6	589.7	1004.2	1010.0	912.1	699.1	558.8
24	159.9	170.8	866.3	517.2	482.5	452.1	605.8	1012.1	1013.5	907.1	692.5	555.3
25	159.5	171.1	784.4	521.2	485.4	458.0	621.5	1014.3	1014.8	903.3	687.2	551.9
26	158.9	172.5	727.8	520.0	494.3	463.0	632.9	1012.7	1015.2	897.9	680.5	547.7
27	158.4	173.9	669.0	517.8	494.7	466.9	640.5	1010.3	1016.6	892.0	674.1	544.1
28	158.5	173.7	608.7	506.9	494.6	469.5	645.3	1005.3	1019.1	885.5	668.0	540.6
29	159.5	173.4	561.2	490.7	495.1	472.7	649.5	1004.6	1020.3	878.7	661.9	537.0
30	160.4	173.1	531.6	476.9		477.2	654.6	1006.2	1018.4	872.6	655.9	533.4
31	160.4	—	520.4	477.4	—	481.7	—	1009.2	—	865.0	650.3	—
Monthly Change	-18.2	+12.7	+347.3	-43.0	+17.7	-13.4	+172.9	+354.6	+9.2	-153.4	-214.7	-116.9

Annual gain or loss in storage: Calendar Year +520,400; Water Year +354,800 Acre-Feet
Differences in storage 1955 to 1956: Maximums +565,000*; Minimums +158,200* Acre-Feet

* Incomplete year beginning of storage at 3:00 P. M. on February 25, 1955.
Records computed by U. S. Bureau of Reclamation.

TABLE 102

AMERICAN RIVER AT FAIR OAKS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	545	538	582	10700	6150	5560	4870	4510	12000	5790	4840	2660
2	552	522	621	11100	6340	5250	4510	4510	11900	5080	4740	2610
3	886	545	613	10400	7220	5120	4800	4130	10400	4320	4640	2590
4	1070	560	590	9910	5700	3470	4800	4080	8740	4260	4640	2620
5	1070	545	590	13500	4580	4470	4810	3220	8520	3700	4600	2400
6	1100	530	621	18700	5950	6220	4720	3180	8780	4320	4010	2600
7	1080	538	621	9040	6330	6370	4060	3220	8210	4260	3560	2630
8	1070	515	661	7710	6890	6810	4100	3180	8020	4260	4480	2520
9	1070	522	677	8800	6370	6720	3980	2980	8110	4260	4620	2450
10	1070	515	677	8980	5680	5360	4060	3150	8110	4260	4360	2280
11	1080	560	637	8540	5680	3940	4800	3080	8160	4190	4540	2140
12	1060	485	629	8220	4310	3990	5160	3070	8110	4240	4680	2170
13	1050	470	621	6560	4990	5340	4980	3050	6830	3700	4700	2170
14	1040	522	653	11800	6390	5600	4050	3040	7050	4150	4720	2170
15	1040	530	637	22600	5380	5880	4000	3050	6320	4120	4700	2190
16	1040	568	629	32400	5120	5860	5050	3050	6540	4150	3410	2170
17	1020	560	629	33500	4850	3840	4830	3080	6650	4240	3200	2180
18	1010	552	613	33300	5760	5210	2830	3070	6300	4280	3250	2260
19	552	522	685	24000	6520	5480	2690	3570	4720	4280	3360	2220
20	545	568	773	12900	5850	6760	1880	3950	4660	4260	3460	2220
21	545	582	821	12500	5160	7030	2030	6020	4660	4300	3540	2220
22	545	582	6910	12100	5160	7050	2100	14400	4440	4300	3610	2220
23	538	598	47300	19200	5220	6940	2150	11800	4260	4300	3680	2220
24	538	575	69300	20500	5510	4800	2120	12100	4240	4220	3560	2210
25	538	575	68500	20400	5560	4900	3540	12400	4210	3790	3270	2210
26	545	605	67900	25900	2560	4940	4490	13900	4240	3700	3740	2210
27	538	575	60400	24000	4990	4990	4540	14100	4240	4320	3580	2270
28	530	575	47600	21400	5510	4980	4560	13200	4240	4420	3410	2420
29	530	575	35000	20900	5600	4810	4540	11300	4340	4480	3400	2480
30	530	582	24800	17500		4810	4400	10200	5840	3900	3380	2590
31	530	—	14000	10100	—	4960	—	10200	—	4460	3330	—
Mean	802	550	14690	16360	5563	5402	3982	6380	6761	4268	3968	2343
Ac-Ft	49300	32710	903100	1006000	320000	332200	236900	392300	402300	262400	244000	139400

Maximum Discharge	Water Year Of Record	71,500 c.f.s. December 24, 1955 180,000 c.f.s. November 21, 1950	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	2208000 4321000

U.S. Geological Survey station located at Mile 19.2R above mouth. Drainage area is 1921 square miles. These flows include releases from Folsom Reservoir. Period of record November 1904 to date.

TABLE 103

AMERICAN RIVER AT SACRAMENTO

Date	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
1	539	531	582	10600	7580	5660	4800	4360	12000	5780	4680	2700
2	555	547	618	11200	6720	5600	4360	4400	12200	5180	4720	2540
3	712	515	618	10300	7840	5320	4960	4080	11000	4220	4560	2540
4	1000	547	600	9910	6230	3760	4900	4020	8870	4120	4500	2210
5	1000	547	600	13500	4820	4300	4920	3080	8270	3520	4520	2180
6	1010	523	627	18700	5890	6100	4840	2990	8850	4160	4000	2410
7	1010	515	627	9420	6510	6570	4250	3180	8020	4140	3700	2510
8	1000	499	664	8690	7570	7200	4160	3210	7920	4120	4160	2640
9	990	507	683	9080	6830	7030	4040	2970	7900	4100	4480	2440
10	1010	483	683	9400	6300	5630	4120	3150	7880	4100	4320	2340
11	1000	539	654	8740	6730	4430	4540	3120	7900	4060	4360	2170
12	990	491	627	8620	4960	3890	5160	3100	7920	4100	4560	2170
13	980	475	645	7170	5160	5900	5060	3130	6910	3540	4580	2170
14	980	499	654	10600	6540	5790	4210	3010	7000	4000	4620	2140
15	980	507	664	20200	5330	6070	4040	2850	6230	4000	4600	2170
16	980	539	636	33500	5740	6270	4900	2770	6380	4020	3540	2140
17	970	539	654	36200	4520	3930	5000	2800	6520	4080	3130	2160
18	970	547	636	36100	5770	4780	3250	2790	6520	4120	3110	2240
19	654	515	712	26700	6210	5770	2820	3230	4680	4120	3220	2250
20	539	523	382	14000	5480	6480	2140	3810	4640	4100	3330	2230
21	539	573	209	13400	5160	7050	2050	5440	4680	4120	3420	2230
22	531	564	4410	12300	5160	7030	2140	14400	4520	4140	3450	2230
23	523	591	41600	17700	5220	7140	2200	11800	4160	4140	3540	2210
24	531	573	69200	21700	5510	4900	2160	12100	4200	4060	3380	2210
25	531	555	70300	20000	5560	4840	2970	12400	4140	3620	2960	2210
26	539	573	70800	26300	2720	4900	4380	13900	4140	3560	3780	2210
27	531	573	60400	25100	4590	5020	4440	14100	4200	4140	3450	2250
28	531	555	47600	22100	5440	5020	4500	13200	4160	4240	3270	2370
29	523	573	35000	21500	5170	4840	4480	11300	4120	4280	3250	2430
30	523	573	24800	20100		4700	4330	10400	5640	3820	3270	2520
31	523	—	14000	12100	—	4780	—	10100	—	4300	3240	—
Mean	764	536	14540	16930	5768	5506	4004	6296	6719	4129	3861	2307
Ac-Ft	47000	31920	894300	1041000	331800	338600	238300	387200	399800	253900	237400	137300

Maximum Discharge			Total Runoff in Acre - Feet		
Maximum Discharge	Water Year	72,100 c.f.s. December 26, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year	2191000
	Of Record	176,000 c.f.s. November 21, 1950		1955 - 56 Water Year	4339000

Station is maintained jointly by Department of Water Resources and U.S. Geological Survey. It is located at the "H" Street bridge, Mile 6.0L above mouth. American River is an east-side tributary to the Sacramento River at Mile 1.1L above Sacramento. Period of record July to October 1921; October 1929 to October 1932; May 1934 to December 1942 (low-water periods only); May 1943 to date. Records computed by U.S. Geological Survey.

TABLE 104

SACRAMENTO RIVER AT SACRAMENTO

Date	Oct	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
1	7940	7900	10100	66600	66600	63000	37300	30700	40800	16100	12400	11500
2	7970	7840	9860	65700	64900	62500	35900	29600	41200	15300	12500	11300
3	8040	7970	10200	65300	65100	61400	34800	29800	39800	13900	12200	11300
4	7870	7890	9980	65800	63100	60400	32900	31000	37900	13600	12000	11100
5	7900	7970	9820	66500	61300	59200	31300	35000	37000	12600	11700	11400
6	7860	7810	10000	73500	60600	60500	30100	40200	36500	12600	11200	11600
7	7770	7840	17900	67400	60300	60000	29800	43000	33700	12500	11400	12100
8	7890	7950	28400	65700	59600	58700	29500	44600	32100	12400	11800	12600
9	8100	7900	28000	66300	57000	56400	30000	44900	31200	12300	11900	13000
10	8130	7970	23700	66700	53300	52500	30800	45000	30500	12100	12000	13300
11	8010	7800	21700	66400	49400	48300	32100	44700	29600	11800	12100	12900
12	[illegible]	8050	20200	65900	45500	44700	33900	44200	29300	11800	12200	13600
13	8690	8430	17100	64400	43600	44400	34300	43900	28100	11300	12100	13800
14	8690	8090	15300	66500	43000	43400	33700	42800	26600	11800	12300	14000
15	8460	8900	14000	77100	40900	42600	33000	40400	22000	12200	12300	14200
16	8350	9740	13200	87700	39500	42000	32800	38000	21400	12200	11300	14800
17	8200	9720	12600	88600	36500	39700	32800	36800	21500	12500	11000	14900
18	8270	9960	13800	88100	36600	38800	31200	37000	21000	12400	11100	14900
19	7970	9970	21600	85700	36100	40100	29900	38100	19300	12400	11200	15300
20	[illegible]	9970	47000	76500	35600	40300	29200	39000	18900	12300	11200	15600
21	7540	9860	[illegible]	74300	39900	41300	29100	40400	18800	12300	11400	15900
22	[illegible]	12100	71900	72500	47100	41500	29500	49100	18200	11900	11600	15900
23	[illegible]	18900	90200	75700	56100	41800	30000	51200	17900	12000	11800	15700
24	[illegible]	17600	[illegible]	79600	65800	40700	30700	52500	17400	11900	11800	15400
25	[illegible]	15000	84500	79700	67500	40500	31300	53900	17000	11400	11400	15000
26	[illegible]	13800	85600	83500	65800	41000	32900	54200	16400	11500	12100	14600
27	7420	[illegible]	85300	83500	64600	41700	33900	53600	15600	11900	12000	14300
28	7580	[illegible]	[illegible]	81300	64400	41900	34800	51500	15000	12000	11900	14300
29	[illegible]	[illegible]	[illegible]	79800	63500	40900	33600	47700	14500	11900	11600	14200
30	[illegible]	10100	74400	78200		39100	32200	43000	15400	11600	11900	13900
31	[illegible]	—	[illegible]	[illegible]	—	38500	—	40700	—	12000	11700	—
Mean	7914	[illegible]	[illegible]	[illegible]	[illegible]	47350	32110	42470	25490	12400	11780	13750
Ac-Ft	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2911000	1911000	2611000	1517000	762600	724200	818000

Maximum Discharge			Total Runoff in Acre - Feet		
Maximum Discharge	Water Year	95,300 c.f.s. December 23, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year	11170000
	Of Record	104,000 c.f.s. November 21, 1950		1955 - 56 Water Year	22410000

Station is maintained jointly by [illegible] of Water Resources and U. S. Geological Survey. It was located at Mile 0.4L, washed out by high water on December 23, 1955, and relocated at Mile 0.6L above "M" Street bridge, 0.2 mile below City of Sacramento intake and [illegible] 5 mile below the confluence of the American River. This represents the flow of the Sacramento River past Sacramento into the Delta. Additional Sacramento River water reaches the Delta via Yolo Bypass, Sacramento Weir (Table 97) and Yolo Bypass near Woodland (Table 108). Daily mean flows are computed from newly derived curves which take into account tidal fluctuations during low stages. Period of record 1904, 1905, 1921, 1924 to date. Records computed by U. S. Geological Survey.

TABLE 105

BEAR CREEK NEAR RUMSEY

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	0.9	1.2	0.9	259	223	197	39	*24	*12	2.9	1.0	1.1
2	1.1	1.1	2.1	174	195	180	38	*24	*11	3.1	1.0	1.1
3	1.2	1.1	1.2	136	178	170	37	*23	*11	3.1	1.3	1.0
4	1.2	1.1	0.7	175	161	157	36	*23	*10	2.9	1.4	1.0
5	1.2	1.1	1.2	249	146	150	*36	*22	*10	2.6	1.3	0.9
6	1.2	1.1	26	159	123	137	*35	*22	*9.7	2.9	1.3	1.1
7	1.1	1.1	13	*1320	111	123	*35	*22	*9.3	2.6	1.3	1.7
8	1.1	0.9	4.6	744	98	118	*35	*21	*9.0	2.6	1.3	1.8
9	1.1	0.8	7.2	327	87	114	*34	*21	*8.6	2.6	1.1	1.7
10	1.2	0.8	5.9	510	86	108	*34	*20	*8.2	2.2	1.1	1.4
11	1.5	0.8	3.7	362	85	102	*33	20	*7.8	2.2	1.1	1.3
12	1.5	0.9	2.8	257	81	94	*33	*19	*7.4	1.9	1.1	1.3
13	1.2	1.6	2.8	247	78	86	*32	*19	*7.0	2.1	1.9	1.4
14	1.1	2.4	2.6	1200	74	83	*32	*19	*6.6	2.4	1.4	1.5
15	1.1	2.1	2.6	782	74	79	*31	*18	*6.2	2.4	1.1	1.5
16	1.1	1.6	3.7	446	68	76	*31	*18	*5.9	2.1	1.0	1.4
17	1.1	2.2	5.0	327	65	72	*31	*17	*5.5	2.1	1.1	1.4
18	1.1	2.4	420	310	64	66	*30	*17	*5.1	2.1	1.3	1.9
19	1.2	2.1	4440	262	179	65	*30	*17	*4.7	2.4	1.5	2.9
20	1.2	1.8	917	408	2560	62	*29	*16	5.0	3.3	1.5	2.9
21	1.3	2.2	832	291	1460	59	*29	*16	5.3	2.6	1.5	2.1
22	1.3	2.1	2820	262	3250	56	*28	*16	4.7	1.9	1.5	1.7
23	1.3	1.5	2030	242	1040	53	*28	*15	4.7	2.4	1.3	1.5
24	1.2	2.1	318	211	478	52	*27	*15	4.0	1.7	1.1	1.5
25	1.2	2.1	151	663	456	47	*27	*14	4.0	2.1	1.0	1.5
26	1.2	1.2	1190	1950	342	46	*26	*14	3.5	1.7	1.1	1.4
27	0.9	0.8	245	972	275	43	*26	*14	3.3	1.3	1.1	1.4
28	0.9	0.8	139	503	242	43	*26	*13	3.1	1.1	1.0	1.5
29	0.9	0.8	101	366	237	42	*25	*13	2.9	1.1	1.1	1.4
30	1.1	0.8	94	307		42	*25	*12	2.4	1.1	1.1	1.5
31	1.1	—	114	265	—	41	—	*12	—	1.1	1.1	—
Mean	1.2	1.4	448	474	432	89.1	31.3	17.9	6.6	2.2	1.2	1.5
Ac-Ft	71	84	27560	29130	24820	5480	1860	1103	393	136	75	91

Maximum Discharge	Water Year Of Record	6960 c.f.s. December 22, 1955 6960 c.f.s. December 22, 1955	Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year	90800

Department of Water Resources Station located approximately seven miles northwest of Rumsey, one and one-half miles above mouth. Bear Creek is a north-side tributary to Cache Creek. Period of record September 1955 to date.
*Estimated.

TABLE 106

CACHE CREEK NEAR CAPAY

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	60	11	7.4	3100	4610	5660	315	754	362	422	414	294
2	59	11	8.4	2910	4400	5350	300	748	336	426	434	279
3	65	9.6	9.2	2720	4240	5100	288	748	322	426	430	276
4	62	8.4	11	2690	4060	4860	282	766	326	406	394	270
5	58	8.8	13	3180	3930	4680	270	766	322	422	382	261
6	42	7.4	405	2880	3760	4500	255	784	318	418	374	255
7	45	7.1	526	5380	3620	4290	247	784	315	402	322	258
8	24	7.1	217	10600	3510	4130	247	784	318	402	300	252
9	19	5.9	145	5550	3400	3990	241	778	322	370	306	238
10	18	5.9	158	5500	3320	3860	227	790	350	374	303	214
11	17	5.9	123	5610	3250	3720	244	778	398	378	303	201
12	14	5.3	99	4740	2390	3550	300	754	410	374	309	187
13	13	5.9	81	4300	2000	3450	276	520	426	386	318	166
14	12	5.3	70	7620	1730	3330	247	488	466	374	322	147
15	12	5.3	62	9330	1480	3280	241	370	480	358	332	133
16	10	5.9	58	9040	784	3200	235	309	462	354	343	119
17	8.4	5.9	58	6300	390	3140	219	285	418	350	346	102
18	8.8	5.6	117	5400	358	2640	209	276	414	366	329	99
19	8.8	5.3	14800	4900	535	2340	196	312	402	394	326	89
20	10	5.0	10300	5000	12600	1270	191	332	378	406	326	77
21	11	4.8	3370	4890	16500	1090	184	343	378	422	326	54
22	10	4.8	20400	4570	23800	1060	179	366	398	430	322	38
23	11	4.8	14900	4540	15600	595	175	394	434	414	291	29
24	12	4.8	6300	4290	9440	466	261	370	444	430	270	27
25	12	4.8	3280	5710	8230	426	462	374	434	462	273	24
26	13	5.3	6010	8880	7730	402	655	394	386	466	270	29
27	13	5.9	4420	8530	6970	378	712	402	370	444	267	42
28	13	6.2	4020	6740	6310	358	778	402	374	434	270	56
29	13	6.2	3350	5640	5990	343	772	378	382	439	267	63
30	11	6.5	3060	5190		332	760	374	414	418	294	64
31	11	—	2910	4890	—	336	—	390	—	414	312	—
Mean	22.5	6.4	3203	5504	5687	2649	332	526	385	406	325	145
Ac-Ft	1380	380	196900	338400	327100	162900	19770	32360	22930	24950	19980	8610

Maximum Discharge	Water Year Of Record	31,800 c.f.s. December 22, 1955 35,000 c.f.s. January 21, 1943	Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year	345800 1156000

U.S. Geological Survey and U.S. Bureau of Reclamation cooperative station located 3.2 miles northwest of Capay and 1.8 miles above Clear Lake Water Company diversion dam. Drainage area is 1052 square miles. Period of record May 1942 to date.
Records computed by U.S. Geological Survey.

TABLE 107

CACHE CREEK AT YOLO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug	Sept.
1			0	3220	4580	5900	289	392				
2			0	3280	4310	5640	265	384				
3			0	2860	4120	5420	250	364				
4			0	2720	3960	5190	235	356				
5			0	3440	3860	5000	211	372				
6			0	3220	3700	4820	175	376				
7			83	3370	3540	4530	145	400				
8			17	10700	3410	4370	133	388				
9			0	5720	3280	4230	112	372				
10			0	5270	3200	4110	91	356				
11			0	5940	3110	3980	73	344				
12			0	4910	2480	3780	145	340				
13	N	N	0	4370	2140	3670	187	319	N	N	N	N
14	O	O	0	6590	1810	3590	166	247	O	O	O	O
15			0	9440	1230	3460	175	166				
16			0	9370	1450	3360	169	65				
17	F	F	0	6650	634	3280	151	12	F	F	F	F
18	L	L	0	5610	544	2920	58	1.5	L	L	L	L
19	O	O	5660	4990	520	2450	28	0	O	O	O	O
20	W	W	13300	5080	7620	1670	32	0	W	W	W	W
21			3790	5110	17000	1170	6.0	0				
22			14200	4680	18800	1080	6.0	0				
23			16900	4700	21900	870	4.0	0				
24			8770	4420	11500	644	4.0	0				
25			3720	6430	8940	560	88	0				
26			4940	8690	8260	500	223	0				
27			5470	10000	6960	456	380	0				
28			4320	7720	6440	384	372	0				
29			3670	6160	6220	337	412	0				
30			3260	5460		322	400	0				
31		—	3090	4990	—	307	—	0	—			—
Mean	0	0	2942	5649	5708	2839	166	170	0	0	0	0
Ac-Ft	0	0	180900	347300	328300	174500	9890	10420	0	0	0	0

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	
	27,400 c.f.s. February 23, 1956	1955 - Calendar Year	194500
	38,700 c.f.s. February 28, 1940	1955 - 56 Water Year	1051000

U. S. Geological aurvey and Department of Water Resources cooperative atation located 0.5 mile aouth of Yolo. Drainage area is 1,137 square miles. Cache Creek is a weat-aide tributary to Yolo Bypass opposite Mile 7.0 north of Sacramento Bypass. Period of record January, 1903 to date. Records computed by U. S. Geological Survey.

TABLE 108

YOLO BYPASS NEAR WOODLAND

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	22	8.6	9.6	67600	46800	41400	890	384	800	8.8	8.8	30
2	21	8.6	10	56800	38600	35200	1030	328	648	7.4	9.4	30
3	19	8.1	10	50000	31400	28200	1020	336	540	7.4	18	32
4	19	8.1	10	45400	25500	23100	746	375	464	7.4	23	35
5	17	7.2	15	43000	19500	17800	516	380	411	6.2	24	37
6	15	7.6	15	43000	13600	13600	393	622	378	7.4	43	38
7	15	7.2	20	40400	9200	9280	329	1500	322	7.4	50	55
8	14	7.2	20	42800	6780	6330	313	1680	270	6.8	38	62
9	14	7.2	20	40800	5630	5210	277	1800	240	6.8	46	60
10	14	6.8	21	41400	5100	4860	253	1860	272	5.1	43	55
11	12	7.2	23	41600	4730	4800	259	1880	264	4.7	17	57
12	13	6.3	30	39800	4420	4500	296	1920	224	4.3	12	57
13	12	4.5	33	39000	3780	4360	328	1880	16	4.3	21	58
14	11	7.6	32	42000	3130	4350	453	1750	6.8	4.3	26	81
15	11	7.2	29	68400	2410	4220	566	1620	8.1	8.8	34	84
16	10	8.1	27	125000	2190	4080	538	1520	12	11	41	73
17	10	8.6	28	152000	1590	3950	450	1450	23	9.4	30	48
18	9.0	8.1	27	144000	999	3820	346	1410	40	14	29	49
19	9.0	7.6	189	124000	915	3380	274	1400	32	24	31	74
20	9.0	7.4	10000	103000	1840	2790	224	1420	19	34	40	98
21	8.1	7.6	53200	87100	11900	1790	188	1460	24	20	40	108
22	8.1	7.2	105000	75800	18900	1560	176	1480	22	14	38	147
23	8.1	8.1	230000	71900	31000	1470	170	1490	25	12	40	139
24	7.6	7.6	163000	71300	72500	1070	180	1510	25	11	38	108
25	7.2	7.6	119000	73100	84800	947	170	1550	25	11	32	91
26	7.6	8.6	153000	75500	77000	890	170	1520	23	11	30	76
27	7.6	8.1	161000	80300	64100	851	176	1520	19	11	31	68
28	7.6	8.6	162000	81500	53500	773	267	1430	9.4	9.4	32	68
29	7.6	8.6	147000	75500	46200	773	434	1250	8.8	8.1	30	45
30	8.6	8.6	119000	65300		809	442	1180	8.1	8.1	28	31
31	9.6	—	89800	55800	—	794	—	1020	—	8.8	29	—
Mean	11.7	7.6	48790	69780	23720	7644	396	1320	173	10.1	30.7	66.5
Ac-Ft	720	455	3000000	4290000	1365000	470000	23550	81170	10270	623	1890	3960

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	
	253,000 c.f.s. December 23, 1955	1955 - Calendar Year	3033000
	272,000 c.f.s. February 8, 1942	1955 - 56 Water Year	9248000

Station is maintained jointly by Department of Water Resources and U. S. Geological Survey. Also known as "Yolo Bypass at Elkhorn". The flow of this station is referred to the recorder in the Tule Canal below the end of Sacramento Bypass except during periods of high water when it is referred to the recorder at Elkhorn above Sacramento-Woodland railroad bridge. To get total flow through Yolo Bypass below Sacramento, combine this flow with the flow of Sacramento Weir (Table 97) and Putah Creek near Davis (Table 110). The flow in this table includes the flows of Cache Creek at Yolo (Table 107), Knights Landing Ridge Cut (Table 59), and Fremont Weir (Table 63). Period of record March, 1930 to October, 1938 (low-water periods only); 1939 to date. Records computed by U. S. Geological Survey.

TABLE 109

PUTAH CREEK NEAR WINTERS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	1.1	1.4	4.8	1720	1920	2010	342	211	78	14	9.8	9.4
2	1.1	1.8	5.0	1850	1640	1720	331	196	74	15	10	9.2
3	1.2	1.2	4.7	1340	1470	1520	318	192	74	14	9.8	8.8
4	1.5	1.0	4.1	1170	1330	1410	307	240	70	15	10	8.8
5	1.5	1.0	5.0	2990	1220	1350	298	300	67	15	10	8.6
6	1.2	1.0	6.6	2060	1100	1230	290	292	65	15	10	8.4
7	0.9	1.5	112	3740	1010	1100	278	322	64	15	10	8.6
8	0.7	1.5	107	9840	930	1010	272	288	61	14	11	8.8
9	0.6	2.0	56	3560	855	950	264	256	59	14	10	8.8
10	0.4	3.0	40	3340	809	894	256	238	50	13	9.8	8.8
11	0.3	3.0	36	3440	768	829	309	224	50	12	9.4	8.6
12	0.2	3.0	32	2600	729	770	458	211	50	11	9.2	8.8
13	0.2	3.5	26	2100	689	734	368	195	48	12	9.8	9.4
14	0.2	4.5	22	3500	632	703	311	179	47	12	11	9.4
15	0.2	5.2	20	7000	583	654	290	169	36	12	9.4	9.8
16	0.3	5.0	20	6400	542	622	280	161	37	12	9.6	9.0
17	0.2	4.0	21	3200	515	604	262	150	36	11	10	9.8
18	0.3	3.0	40	2520	500	577	242	140	37	12	10	9.2
19	0.5	3.0	14400	2040	824	553	224	130	37	11	9.8	11
20	0.9	3.5	21100	2450	12500	536	215	130	37	11	11	11
21	1.5	5.0	9610	2320	18400	514	206	126	36	10	10	12
22	1.4	4.5	35500	1920	22700	494	200	120	31	10	10	9.2
23	1.3	4.3	33700	2060	19400	471	198	108	29	10	9.6	9.2
24	1.3	3.9	14200	1650	8880	450	188	103	25	9.8	10	9.6
25	1.3	3.9	4890	7490	5460	426	190	98	27	9.4	9.6	8.4
26	1.7	3.6	8060	8700	5670	411	204	92	23	9.6	10	8.2
27	1.5	3.8	8530	9110	3300	392	366	88	20	9.4	9.8	8.4
28	1.3	3.9	2890	6670	2640	380	333	90	18	11	9.4	9.0
29	1.1	4.3	1980	3750	2480	370	260	84	16	10	9.4	8.8
30	0.8	4.7	1540	2830		361	231	85	15	11	9.4	8.0
31	0.8	—	1460	2300	—	354	—	81	—	10	9.4	—
Mean	0.9	3.2	5110	3731	4121	787	276	171	43.9	11.9	9.9	9.2
Ac-Ft	55	188	314200	229400	237000	48390	16440	10510	2610	734	607	545

Maximum Discharge			Total Runoff in Acre - Feet		
	Water Year	55,400 c.f.s. December 22, 1955		1955 - Calendar Year	371600
	Of Record	81,000 c.f.s. February 27, 1940		1955 - 56 Water Year	860700

U.S. Geological Survey and Department of Water Resources cooperative station located six miles west of Winters. Drainage area is 577 square miles. Period of record June 1930 to date. (Prior record is available at a site six miles downstream from 1905 to 1931). Records computed by U.S. Geological Survey.

TABLE 110

PUTAH CREEK NEAR DAVIS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	1400	1890	2090	325	192	49		0	0
2			0	1900	1530	1780	315	178	52		0	0
3			0	1290	1310	1600	310	174	50		0	0.4
4			0	1070	1160	1470	295	192	44		0	0.4
5			0	2380	998	1400	290	265	42		0	0
6			0	2060	878	1290	280	300	37		0	0
7			0	2220	758	1140	270	305	36		0	0
8			0	10000	668	1050	260	310	31		0	0
9			0	5080	594	983	250	275	27		0	0
10			0	3420	542	920	245	245	27		0	0
11			0	3900	510	844	270	225	23		0	0
12			0	2530	474	778	405	211	20		0.1	0
13	N	N	0	1980	432	742	390	192	22	N	0.1	0
14	0	0	0	3840	396	706	310	169	20	0	0	0
15			0	6940	346	658	285	161	19		0	0
16			0	6640	310	628	270	148	13		0	0
17	F	F	0	3600	290	604	255	133	7.4	F	0.4	0
18	L	L	0	2580	276	568	230	122	7.4	L	0.6	0
19	O	O	7100	2030	300	544	201	115	4.5	O	0	0
20	W	W	22500	2200	9230	520	192	108	4.2	W	0	0
21			10300	2470	18600	502	182	104	4.0		0	0
22			30500	1790	20000	478	174	98	2.6		0	0
23			32500	2000	23000	460	169	90	1.7		0	0
24			18000	1580	10600	430	161	84	0.5		0	0
25			6650	6180	5190	415	157	74	0		0	0
26			5960	8700	6270	395	178	74	0		0	0
27			9440	9280	3490	385	265	66	0		0	0
28			3610	7810	2710	365	350	63	0		0	0
29			2140	4400	2460	355	260	61	0		0	0
30			1610	3080		345	216	57	0		0	0
31		—	1420	2380	—	330	—	59	—		0	—
Mean	0	0	4895	3765	3973	799	259	156	18.1	0	0.0	0.0
Ac-Ft	0	0	301000	231500	228500	49140	15390	9620	1080	0	2	2

Maximum Discharge			Total Runoff in Acre - Feet		
	Water Year	46,600 c.f.s. December 22, 1955		1955 - Calendar Year	353000
	Of Record	46,600 c.f.s. December 22, 1955		1955 - 56 Water Year	836000

U. S. Geological Survey, U. S. Bureau of Reclamation and Department of Water Resources cooperative station located about one mile above U. S. Highway 40. Drainage area is 636 square miles. Putah Creek is a west-side tributary to Yolo Bypass below Sacramento Bypass. Period of record May 1948 to date. Records computed by U. S. Geological Survey.

TABLE 111

INFLOW TO MILLERTON LAKE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	445	657	1382	4426	4368	3410	3734	5327	8002	6661	2767	1803
2	276	800	1052	4053	3973	3372	3681	5464	8116	5422	2552	1839
3	509	779	438	3812	3801	2464	3634	5876	8093	4653	2379	1778
4	671	760	565	3682	3593	2164	3283	11634	8780	4287	1975	1786
5	714	242	654	4350	3526	2102	3403	8274	8231	4630	1914	1782
6	698	228	1235	3488	3637	2068	3646	6532	6941	4750	2065	1763
7	528	747	1409	3498	3394	2112	3616	6106	7346	4675	2217	1763
8	551	700	1228	3548	3425	2105	4125	5498	7677	4722	1995	1766
9	395	653	1226	3459	3116	2383	4592	6128	7711	4765	2209	1843
10	596	546	1105	3360	3217	2752	5014	5651	8296	4677	2116	1733
11	621	605	597	3394	3360	2785	4660	5534	8333	4315	1907	1435
12	668	375	992	3590	3341	3031	4519	5473	7733	4004	2104	1733
13	707	363	814	3432	3334	2864	3962	4779	7887	4714	2094	1687
14	714	664	1143	3368	3290	2879	3800	4590	7420	4604	2040	1579
15	352	615	1169	3889	2869	2935	3459	4673	6466	4214	2040	1691
16	297	708	1266	6522	3686	2748	3575	5350	5650	4279	1925	1573
17	762	901	933	4880	3717	2884	3669	5930	5852	4432	1893	1649
18	637	509	652	4144	3296	3162	3840	5660	6285	3797	1909	1574
19	639	410	1210	3961	3009	3318	3925	7060	7128	3645	1969	1517
20	888	473	1706	3781	3764	3308	4384	6292	6737	4173	2010	1735
21	754	695	1936	3689	3681	3441	4665	7929	6377	5623	1940	1403
22	361	929	9451	3435	3766	3554	4707	9666	6312	4743	1826	1720
23	260	579	61740	7764	4345	3563	5514	10432	6483	5253	1950	1731
24	560	290	45674	5248	3768	3551	5666	10929	6906	6236	1863	1620
25	825	305	17185	13004	3746	3584	6286	8836	6747	8011	1762	1615
26	798	340	11741	10511	3490	3639	6828	9392	6505	5796	1890	1685
27	694	409	11368	10876	3563	3644	6297	9464	7240	5619	1840	1336
28	604	638	7024	6788	3567	3726	5340	8449	7755	5444	1822	1719
29	656	786	5599	5604	3529	3564	a5082	8533	8235	4692	1906	1702
30	492	828	4689	4969		3651	5174	8760	7432	3896	1770	b1284
31	400	—	4983	4683	—	3730	—	8912	—	3501	1798	—
Mean	583	584	6521	5007	3558	3048	4469	7198	7289	484[illegible]	201[illegible]	1661
Ac-Ft	35845	34778	400990	307851	204637	187424	265524	442578	433738	297983	124060	98970

Maximum Discharge		Total Runoff in Acre – Feet		
Water Year	61,740 c.f.s. daily mean December 23, 1955		1955 - Calendar Year	1462307
Of Record	61,740 c.f.s. daily mean December 23, 1955		1955 - 56 Water Year	2834378

These quantities are the daily mean second-feet inflow to Friant Reservoir as computed by the U. S. Bureau of Reclamation, taking into account change in storage, release, spill, precipitation and evaporation; and are representative of the natural flow passing the dam site if the dam had not been constructed. Drainage area is 1,633 square miles.
(a) 23-hour day.
(b) 25-hour day.

TABLE 112

DAILY CONTENTS OF MILLERTON LAKE

Date	Storage at end of day in Thousands of Acre-Feet											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	138.3	139.1	160.5	466.0	450.7	292.2	200.9	259.1	395.0	445.5	458.4	285.2
2	137.5	139.8	162.5	464.1	445.6	295.4	197.3	261.0	396.1	446.9	454.0	279.2
3	137.3	140.4	163.2	461.2	440.0	296.7	193.8	263.4	396.7	446.7	449.8	273.3
4	137.3	141.1	164.2	456.6	433.6	297.3	189.9	277.8	399.8	446.3	444.7	267.5
5	137.2	140.6	165.4	452.8	426.8	297.7	186.7	285.5	402.5	446.7	439.6	261.6
6	137.0	140.2	167.4	446.5	418.8	298.0	184.4	289.8	402.8	44[illegible].8	434.8	255.9
7	136.6	140.8	169.8	441.6	409.5	298.9	181.8	293.6	404.1	449.0	430.2	250.5
8	136.4	141.3	171.9	436.7	400.4	299.1	179.8	296.1	405.9	450.1	425.2	245.3
9	135.8	141.7	173.9	432.2	391.2	298.9	179.1	300.5	407.6	451.2	420.1	240.5
10	135.7	141.7	175.7	429.2	382.5	297.7	179.4	305.4	410.3	452.1	414.6	237.3
11	135.6	141.8	176.4	427.0	373.5	296.3	179.7	310.8	412.7	452.2	408.6	234.3
12	135.5	141.4	177.5	425.2	365.3	295.0	182.3	317.4	414.5	451.8	402.8	232.2
13	135.5	141.1	177.6	423.1	358.2	292.5	185.7	323.0	417.0	452.6	397.1	230.3
14	135.5	141.5	178.2	420.9	351.5	289.0	189.4	326.8	418.4	453.3	391.4	228.4
15	134.8	142.4	179.0	419.7	344.7	285.1	193.0	328.5	417.6	453.2	385.7	226.9
16	134.1	143.7	180.5	423.8	339.7	280.0	196.7	331.3	414.8	453.1	379.8	225.2
17	134.4	145.3	182.2	424.5	334.8	275.5	200.5	334.8	411.9	453.4	374.0	223.6
18	134.4	146.2	183.3	423.8	329.0	271.2	204.0	337.4	410.8	452.3	368.4	222.1
19	134.6	146.9	185.4	422.8	322.6	265.8	206.6	342.5	412.2	450.8	362.8	219.8
20	135.3	147.7	188.5	421.2	317.0	259.7	209.3	345.5	412.9	450.2	357.2	217.3
21	135.9	149.0	191.9	419.6	311.0	253.8	212.2	350.7	412.9	452.5	351.3	214.7
22	135.8	150.7	210.3	417.5	304.9	247.9	214.9	357.8	413.6	452.9	345.2	212.8
23	135.[illegible]	151.7	332.6	424.0	300.2	242.2	219.5	365.9	415.7	453.9	339.4	210.9
24	135.[illegible]	15[illegible].1	4[illegible]1.1	424.[illegible]	294.8	236.9	224.5	374.8	418.4	456.7	333.4	208.9
25	13[illegible]	152.[illegible]	446.2	439.3	290.1	231.5	229.6	378.5	420.7	462.8	327.3	206.6
26	137.5	153.1	457.5	449.0	286.6	226.2	235.6	382.2	422.7	464.6	321.4	204.6
27	138.0	153.8	468.1	458.6	285.1	221.1	242.4	385.9	426.0	466.2	315.4	200.8
28	138.[illegible]	155.0	47[illegible].1	460.1	286.1	217.0	248.2	387.3	430.3	467.3	309.3	197.5
29	[illegible]	15[illegible].4	4[illegible].2	453.2	289.1	212.7	253.2	389.2	436.6	467.0	303.3	195.3
30	138.7	157.9	467.1	457.0		208.6	256.7	391.5	441.7	465.1	297.2	192.7
31	138.6	—	467.1	454.3	—	204.7	—	394.2	—	462.5	291.2	—
Monthly Change	-[illegible].1	+1[illegible]	+[illegible]	1[illegible].8	-165.2	-84.4	+52.0	+137.5	+47.5	+20.8	-171.3	-98.5

Annual gain or loss in storage: Calendar Year +237,900; Water Year +54,000 Acre-Feet
Difference in storage 1955 to 1956: Maximums -44,500; Minimums -4,600 Acre-Feet

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

TABLE 113

SAN JOAQUIN RIVER BELOW FRIANT

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	130	88	68	5180	6160	505	1890	1640	5160	222	204	156
2	130	86	66	5140	6140	505	1730	1890	5160	222	202	156
3	132	88	65	5380	6120	505	1730	1790	5160	199	202	156
4	130	88	65	6140	6100	505	1690	1530	4720	190	202	156
5	130	88	65	6360	6090	505	1630	1530	4150	190	199	159
6	130	88	106	6770	6080	505	1630	1530	4160	177	199	156
7	126	88	195	6120	6080	505	1710	1340	4160	169	193	154
8	117	88	198	6140	6030	505	1800	1450	4160	169	190	154
9	119	88	198	5850	5880	887	1660	1710	4180	169	188	146
10	119	89	200	5020	5420	1450	1560	1630	4180	169	188	139
11	119	88	200	4650	4950	1450	1300	1540	4190	169	185	139
12	115	88	416	4630	4470	1510	744	1480	3540	166	185	139
13	108	89	808	4630	3970	1820	505	1490	2860	166	179	142
14	108	86	808	4630	3430	2200	402	2200	2690	166	179	142
15	108	71	808	4650	2940	2400	261	3090	2860	166	177	142
16	108	61	500	4670	2600	2760	258	3110	2990	166	177	144
17	108	62	103	4640	2600	2570	334	3110	2980	164	177	144
18	108	62	92	4640	2590	2450	634	3120	2360	161	177	144
19	108	63	93	4630	2580	2530	1100	3130	1680	164	177	393
20	108	63	140	4640	2590	2780	1670	3130	1630	164	177	604
21	108	64	185	4630	2600	2660	1770	3540	1630	166	177	610
22	110	63	173	4640	2600	2530	1770	4150	1160	166	177	604
23	110	64	464	4710	2620	2360	1780	4180	598	166	177	592
24	104	64	1500	5030	2580	2110	1750	4160	692	161	177	456
25	96	64	4590	6020	2570	2110	1700	4570	646	182	179	547
26	93	64	6390	5920	2220	2100	1660	5130	598	202	179	592
27	89	64	6360	6330	1680	2060	1100	5130	604	219	177	604
28	89	65	6260	6260	1160	1980	791	5130	604	246	177	604
29	89	65	6210	6220	691	1980	791	5140	610	246	172	604
30	88	65	5850	6200		1980	1250	5160	368	246	156	598
31	88	—	5250	6180	—	1980	—	5180	—	225	156	—
Mean	110	75.1	1562	5376	3846	1700	1287	2997	2683	186	183	316
Ac-Ft	6790	4470	96050	330500	221200	104500	76560	184300	159600	11410	11230	18800

Maximum Discharge	Water Year 7,120 c.f.s. January 5, 1956 Of Record 77,200 c.f.s. December 11, 1937	Total Runoff in Acre-Feet	1955-Calendar Year 176800 1955-56 Water Year 1225000

U. S. Geological Survey station located at Mile 268.13L above mouth and 1.5 miles below Friant Dam. Drainage area is 1,675 square miles. Period of record October 1938 to date. (Prior records available at sites 2.5 and 4.5 miles upstream.)

TABLE 114

LITTLE DRY CREEK NEAR FRIANT

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1		0	1.4	99	117	21	8.5	6.1	0.6			
2		0	1.4	81	104	20	9.1	4.8	0.4			
3		0	0.1	89	95	20	7.9	4.1	0.4			
4		0	0.1	62	87	19	6.7	9.1	0.3			
5		0	0.1	52	85	18	6.1	7.3	0.2			
6		0	0.5	57	78	18	6.1	4.4	0.2			
7		0	0.7	44	71	17	5.5	4.4	0.2			
8		0	0.6	55	65	17	5.5	4.4	0.1			
9		0	0.5	40	55	16	6.1	9.7	0.1			
10		0	0.4	34	50	16	6.1	7.3	0.1			
11		0	0.4	32	48	15	8.5	6.1	0.1			
12		0	0.4	31	44	14	36	7.3	0			
13	N	0	0.4	29	40	14	26	5.2	0.1	N	N	N
14	0	0	0.4	30	34	14	19	3.8	0.1	0	0	0
15		0	0.3	48	33	13	14	3.0	0.1			
16		0	0.3	110	31	13	11	2.7	0.1			
17	F	0	0.3	55	29	12	8.5	2.7	0.1	F	F	F
18	L	0.2	0.4	44	29	12	7.9	2.7	0.1	L	L	L
19	O	0	1.1	39	28	12	6.7	2.4	0.1	O	O	O
20	W	0	1.5	55	27	11	6.1	2.4	0.1	W	W	W
21		0.2	1.1	48	26	11	5.5	1.9	0.1			
22		0.2	32	42	26	11	3.8	1.7	0.1			
23		0.1	849	183	103	11	3.4	1.2	0.1			
24		0	1250	97	50	10	3.4	1.1	0.1			
25		0.1	601	624	28	9.7	3.4	1.2	0.1			
26		0	323	332	28	9.1	7.9	1.2	0.1			
27		0	310	323	24	9.7	27	1.1	0.1			
28		0	155	167	23	9.1	15	0.8	0.1			
29		0	117	155	22	7.9	9.7	0.7	0			
30		0	95	146		7.3	7.9	0.6	0			
31		—	161	135	—	7.9	—	0.6	—			—
Mean	0	0.0	126	108	51.0	13.4	9.9	3.6	0.1	0	0	0
Ac-Ft	0	2	7750	6620	2940	825	592	222	8	0	0	0

Maximum Discharge	Water Year 1,760 c.f.s. December 24, 1955 Of Record 1,810 c.f.s. January 25, 1952	Total Runoff in Acre-Feet	1955-Calendar Year 9061 1955-56 Water Year 18960

U. S. Geological Survey and U. S. Bureau of Reclamation cooperative station located four miles above mouth. Drainage area is approximately 58 square miles. Little Dry Creek enters the San Joaquin River at Mile 264.0L above mouth. Period of record 1937 to date. Records computed by U. S. Geological Survey.

TABLE 115

SAN JOAQUIN RIVER NEAR BIOLA

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	86	66	59	5640	5830	680	2000	1370	4680	426	175	119
2	88	64	65	5370	5770	483	1850	1600	4680	280	155	120
3	90	65	68	5230	5730	448	1730	1860	4690	246	154	123
4	84	65	63	5640	5750	420	1710	1660	4690	209	157	124
5	80	67	60	5930	5720	408	1650	1530	4080	200	159	117
6	84	70	61	6390	5690	384	1580	1530	3900	188	175	114
7	86	72	72	6150	5670	372	1540	1530	3870	180	167	114
8	87	71	103	5860	5640	360	1670	1400	3860	167	152	114
9	86	71	158	5830	5590	355	1710	1700	3840	169	145	116
10	84	72	179	5310	5350	856	1530	1600	3840	159	139	122
11	82	72	185	4760	4970	1450	1500	1530	3860	157	136	116
12	81	72	185	4590	4600	1470	1180	1530	3810	150	142	110
13	82	77	197	4560	4210	1550	752	1520	3040	145	157	115
14	81	87	819	4540	3800	1860	586	1510	2670	142	150	117
15	77	92	1070	4540	3370	2060	510	2460	2620	147	140	117
16	80	81	1110	4600	2970	2330	395	2880	2810	154	136	123
17	76	72	954	4580	2800	2510	357	2930	2840	140	132	127
18	73	61	356	4530	2770	2330	370	2960	2810	138	132	126
19	74	59	194	4500	2740	2280	560	2960	1980	139	134	120
20	78	59	148	4510	2710	2420	1180	2960	1640	129	138	146
21	80	60	136	4530	2730	2540	1680	2970	1580	133	130	458
22	81	57	190	4490	2720	2630	1780	3470	1560	134	123	532
23	82	54	262	4560	2710	2560	1800	3810	966	136	123	550
24	82	55	1660	4640	2710	2320	1820	3840	645	138	124	568
25	81	57	4530	5430	2670	2200	1760	3830	674	130	129	474
26	80	55	6710	6120	2640	2180	1780	4390	615	134	132	494
27	74	57	7120	6540	2210	2140	1740	4640	578	145	144	542
28	72	56	7040	6390	1740	2060	1080	4680	560	150	142	582
29	68	54	6820	6170	1220	2020	872	4680	550	167	138	586
30	68	55	6660	6010		2010	833	4690	546	196	136	586
31	67	—	6040	5910	—	2000	—	4680	—	190	126	—
Mean	79.8	65.8	1719	5285	3898	1603	1317	2732	2616	172	143	259
Ac-Ft	4910	3920	105700	325000	224200	98550	78360	168000	155700	10550	8770	15420

Maximum Discharge	Water Year Of Record	7,240 c.f.s. December 27, 1955 7,240 c.f.s. December 27, 1955	Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year	164900 199000

U. S. Geological Survey and U. S. Bureau of Reclamation cooperative station located at Mile 236.4R above mouth and 1.8 miles below Skaggs Bridge. Drainage area is 1,805 square miles. This station is at approximately the same location as a former Southern California Edison Company station known as "San Joaquin River below Skaggs Bridge" for which records are available for the period 1926 through 1938. Period of record for this station October 1952 to date. Records computed by U. S. Geological Survey.

TABLE 116

SAN JOAQUIN RIVER AT WHITEHOUSE

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	18	11	8.0	4840	4950	990	1860	928	4580	504	128	75
2	19	10	12	4670	4920	735	1760	1340	4550	379	114	70
3	20	10	14	4570	4900	657	1590	1520	4550	292	105	70
4	22	10	19	4680	4900	621	1570	1660	4560	226	98	71
5	21	10	19	4970	4900	604	1540	1450	4280	185	104	71
6	18	12	20	5080	4890	586	1480	1440	3820	168	109	67
7	21	14	12	5160	4900	574	1460	1440	3790	165	120	63
8	22	14	21	4950	4890	553	1580	1370	3770	161	114	62
9	23	14	42	4940	4870	530	1580	1300	3750	131	100	61
10	23	14	67	4780	4770	566	1510	1620	3690	122	99	65
11	22	14	94	4330	4530	1120	1410	1550	3670	118	91	68
12	21	13	109	4060	4270	1230	1320	1510	3670	113	84	61
13	20	16	121	4020	3960	1280	959	1430	3170	104	94	54
14	20	24	130	4010	3560	1480	706	1420	2650	96	106	60
15	21	27	416	4000	3150	1860	615	1760	2530	92	102	64
16	18	31	549	4040	2740	2020	474	2720	2670	99	93	64
17	19	33	590	4090	2490	2390	399	2810	2790	105	88	72
18	16	25	469	4020	2440	2300	342	2840	2770	90	87	79
19	14	18	2[illegible]	4020	2400	2220	440	2830	2380	80	86	67
20	14	16	161	4050	2380	2300	730	2820	1700	81	91	52
21	11	16	14[illegible]	4060	2370	2530	1300	2850	1580	81	91	85
22	1[illegible]	16	10[illegible]	4050	2360	2460	1480	3070	1500	86	83	280
23	1[illegible]	14	141	4050	2340	2360	1500	3700	1310	88	75	388
24	[illegible]	11	14[illegible]	4180	2340	2240	1510	3800	786	84	72	410
25	[illegible]	9	35[illegible]	4430	2310	2030	1500	3830	706	84	71	422
26	[illegible]	[illegible]	48[illegible]	51[illegible]	2280	2010	1480	4000	689	74	78	359
27	1[illegible]	7[illegible]	5300	5170	2080	1980	1520	4460	609	76	82	403
28	17	[illegible]	[illegible]90	5[illegible]40	1690	1955	1240	4540	578	84	90	456
29	15	[illegible]	[illegible]	5130	1330	1880	843	4570	548	94	91	488
30	14	[illegible]7	19[illegible]	504[illegible]		1880	790	4580	536	111	86	496
31	1[illegible]	—	50[illegible]	4990	—	1900	—	4590	—	128	82	—
Mean	17[illegible]	15[illegible]	17[illegible]	4440	3445	1543	1216	2573	2606	139	94	170
Ac-Ft	11[illegible]	[illegible]3	1319.	279134	198169	94891	72373	158178	155072	8531	5780	10122

Maximum Discharge	Water Year Of Record		Total Runoff in Acre-Feet	1955-Calendar Year 1955-56 Water Year	94110 1057000

San Joaquin Canal [illegible]pany station located at Mile 219.83R above mouth, 13 miles below the head of Gravelly Ford [illegible]anal. Period of record [illegible] to date.

TABLE 117

SAN JOAQUIN RIVER NEAR MENDOTA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	253	102	63	5250	5250	2570	261	148	2350	487	403	277
2	253	102	61	5160	5230	2230	252	142	2340	448	406	274
3	225	96	63	5030	5200	1690	266	142	2300	403	393	274
4	185	94	79	4910	5170	1470	266	148	2300	420	374	274
5	167	94	97	4910	5130	1410	259	146	2200	427	377	274
6	146	94	112	4990	5120	1300	252	146	1620	423	364	260
7	146	94	124	5090	5090	1260	252	152	1490	529	345	246
8	145	107	122	5120	5080	1220	261	156	1420	581	349	201
9	146	94	126	5120	5070	930	25,	166	1360	469	349	176
10	118	82	119	5090	5070	590	235	168	1320	406	361	183
11	90	85	107	4990	5050	540	189	170	1330	403	377	233
12	87	84	66	4780	4980	460	163	175	1300	396	370	291
13	84	82	21	4550	4860	340	161	178	860	390	370	294
14	81	69	16	4390	4680	360	160	267	490	390	383	291
15	88	57	16	4320	4460	470	159	730	390	410	406	283
16	97	54	17	4260	4100	390	159	820	280	406	420	291
17	96	51	20	4290	3900	390	156	830	200	406	420	280
18	87	49	21	4290	3740	400	158	880	330	410	403	249
19	72	47	12	4280	3860	380	175	890	300	410	406	246
20	85	47	12	4310	4010	360	194	920	320	430	383	254
21	99	47	12	4290	4110	300	192	940	320	444	377	268
22	102	45	12	4290	4230	420	192	1230	320	437	390	271
23	103	51	480	4260	4220	340	194	1480	370	444	383	300
24	97	67	990	4300	4140	310	188	1600	390	437	361	321
25	91	66	850	4400	4080	310	185	1750	390	420	345	349
26	94	64	2930	4650	4010	300	178	2050	380	427	345	390
27	103	63	4340	4900	3960	310	155	2300	370	444	361	416
28	102	64	4860	5100	3730	350	158	2370	360	444	370	406
29	103	66	5010	5250	3110	390	152	2360	410	444	367	276
30	102	66	5060	5350		350	149	2360	440	444	364	129
31	105	—	5140	5350	—	270	—	2340	—	430	327	—
Mean	121	72.8	999	4751	4505	723	199	908	942	434	376	276
Ac-Ft	7442	4330	61404	292110	259120	44450	11860	55840	56030	26700	23110	16420

Maximum Discharge		Total Runoff in Acre - Feet		
	Water Year 5370 c.f.s. January 31, 1956		1955 - Calendar Year	217900
	Of Record 8840 c.f.s. June 1, 1952		1955 - 56 Water Year	858800

U. S. Bureau of Reclamation station located 2.5 miles below Mendota Dam, Mile 206.2L above mouth. Drainage area is 4310 square miles. Period of record October 1939 to date.

TABLE 118

SAN JOAQUIN RIVER NEAR DOS PALOS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	5010	5290	3200	0	55	1920	*4.0		
2			0	5110	5220	2760	0	56	1950	*4.0		
3			0	5010	5190	2300	0	53	1990	*4.0		
4			0	4820	5190	1840	0	46	1970	*4.0		
5			0	4690	5190	1750	0	43	1990	*4.0		
6			0	4680	5160	1540	0	45	1700	*4.0		
7			0	4730	5110	1380	0	43	1240	*4.0		
8			0	4930	5100	1340	0	48	1120	33		
9			0	5000	5090	1260	0	55	1040	76		
10			0	5000	5100	1240	0	59	980	20		
11			0	4950	5140	1080	0	60	940	*4.0		
12			0	4850	5110	880	0	58	940	*4.0		
13	N	N	0	4570	5020	710	0	57	900	*4.0	N	N
14	O	O	0	4330	4910	480	0	38	400	*4.0	O	O
15			0	4160	4730	250	0	72	200	*4.0		
16			0	4110	4390	120	0	345	120	*4.0		
17	F	F	0	4080	3950	70	0	390	30	*4.0	F	F
18	L	L	0	4200	3650	60	0	425	20	*4.0	L	L
19	O	O	0	4180	3730	40	0	445	40	*4.0	O	O
20	W	W	0	4200	4390	0	0	455	0	*4.0	W	W
21			0	4200	4860	0	0	480	0	*4.0		
22			0	4160	5090	0	0	505	0	*4.0		
23			0	4130	5200	0	0	800	0	*4.0		
24			250	4050	4800	0	0	970	0	*4.0		
25			470	4110	4640	0	0	1125	0	*4.0		
26			690	4210	4550	0	4.0	1325	0	*4.0		
27			2190	4540	4500	0	38	1690	0	*4.0		
28			3650	4830	4420	0	84	1860	0	*4.0		
29			4430	5070	4040	0	72	1940	0	*4.0		
30			4800	5240		0	59	1965	0	*4.0		
31		—	4900	5320	—	0	—	1960	—	*4.0		—
Mean	0	0	690	4596	4785	719	8.6	563	650	7.8	0	0
Ac-Ft	0	0	42407	282580	275230	44230	510	34650	38660	478	0	0

Maximum Discharge		Total Runoff in Acre - Feet		
	Water Year 5,460 c.f.s. January 30, 1956		1955 - Calendar Year	51690
	Of Record 8,200 c.f.s. June 5, 1952		1955 - 56 Water Year	718700

U. S. Bureau of Reclamation station located 800 feet below the head of Temple Slough, Mile 186.0L above mouth. Drainage area is 5,630 square miles. Period of record October 194[illegible] to date.
* Estimated

TABLE 119

FRESNO RIVER NEAR DAULTON

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	0	2.7	23	630	630	224	114	168	122	45	6.1	2.5
2	0	2.7	55	499	570	216	114	149	117	42	5.8	2.2
3	0	2.7	40	418	522	213	107	141	114	41	5.5	2.2
4	0	3.3	24	362	482	206	102	321	107	39	5.5	1.8
5	0	3.3	19	338	455	198	98	366	110	37	5.5	1.8
6	0	3.3	54	367	428	191	98	209	110	36	5.2	1.8
7	0	3.1	117	309	387	178	96	220	105	35	5.2	1.8
8	0	2.5	68	392	357	174	90	240	102	34	4.9	1.8
9	0	2.9	61	318	338	174	87	342	102	32	4.6	2.0
10	0	2.9	87	278	323	171	96	367	100	29	4.3	1.8
11	0	2.9	54	260	314	168	127	286	92	27	4.0	2.0
12	0	2.9	37	252	295	165	291	314	90	25	4.0	2.9
13	0	4.0	31	236	286	155	269	256	90	24	3.8	2.9
14	0	9.8	28	256	273	152	232	224	90	23	3.6	3.3
15	0	11	25	439	264	149	202	198	83	22	3.6	3.1
16	0	7.8	23	877	252	141	184	181	81	20	3.6	2.9
17	0	12	21	460	232	144	174	168	79	18	3.6	2.5
18	0	16	20	362	248	138	174	165	79	17	3.3	2.7
19	0	15	62	318	228	132	162	158	75	16	3.1	3.1
20	0	14	149	357	216	132	146	149	72	15	2.9	3.3
21	0	19	171	362	213	132	138	144	68	13	2.9	3.6
22	0.8	39	784	330	206	127	132	130	66	12	2.5	3.8
23	1.5	30	10400	1350	690	124	119	130	65	11	2.2	3.6
24	1.6	20	7350	920	478	122	112	138	63	9.8	2.5	3.3
25	2.0	16	2850	3150	300	114	110	141	61	9.0	2.0	3.3
26	2.2	14	1940	1990	338	110	152	138	57	8.2	2.0	3.6
27	1.8	13	2360	2670	282	110	559	127	54	7.8	2.0	3.6
28	1.8	13	1090	1260	260	110	335	127	53	7.4	2.0	4.3
29	2.0	14	734	974	240	102	228	119	48	7.0	2.2	5.2
30	2.5	15	534	825		102	195	117	46	6.7	2.5	5.5
31	2.7	—	922	728	—	107	—	119	—	6.1	2.5	—
Mean	0.6	10.6	972	719	349	151	168	195	83.4	21.8	3.7	2.9
Ac-Ft	37	630	59770	44210	20050	9280	10000	12000	4960	1340	225	175

Maximum Discharge	Water Year 17,500 c.f.s. December 23, 1955 Of Record 17,500 c.f.s. December 23, 1955	Total Runoff in Acre-Feet	1955-Calendar Year 91280 1955-56 Water Year 162700

U. S. Geological Survey and U. S. Bureau of Reclamation cooperative station located 5.3 miles southeast of Daulton. Drainage area is 270 square miles. Fresno River is an east-side tributary to the San Joaquin River at Mile 184.0R above mouth. Period of record October 1941 to date. Records computed by U. S. Geological Survey.

TABLE 120

CHOWCHILLA RIVER AT BUCHANAN DAM SITE

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1		0	5.6	483	514	182	89	119	52	10	0.8	
2		0	23	387	464	174	94	107	50	10	0.7	
3		0	18	324	422	169	83	99	47	10	0.7	
4		0	11	285	387	164	77	129	43	9.8	0.7	
5		0	8.7	272	364	156	74	177	42	10	0.7	
6		0	79	285	352	152	73	125	41	9.8	0.7	
7		0	130	236	307	144	70	148	38	9.2	0.7	
8		0	43	310	285	141	66	167	36	8.5	0.7	
9		0	38	260	260	140	64	195	34	8.2	0.7	
10		0	44	218	247	135	64	240	32	7.5	0.7	
11		0	26	208	240	132	97	186	30	7.2	0.6	
12		0	18	197	231	126	212	187	29	6.8	0.5	
13	N	0	15	186	221	122	197	164	27	6.8	0.4	N
14	O	0	12	203	210	120	186	141	26	6.2	0.4	O
15		0	11	419	202	115	179	125	27	6.2	0.3	
16		0	9.7	927	191	109	156	115	29	6.0	0.2	
17	F	0	9.1	425	180	108	140	108	26	5.8	0.1	F
18	L	0	8.7	330	189	106	144	106	24	5.5	0.1	L
19	O	0	149	293	184	102	130	100	22	4.6	0.1	O
20	W	0	379	316	169	99	109	94	22	4.5	0.1	W
21		0	209	32[illegible]	162	99	102	88	22	3.9	0.1	
22		0	2450	293	160	98	92	82	21	3.6	0	
23		0	18400	1820	573	94	86	76	19	3.0	0	
24		[illegible]	8110	868	359	92	81	72	17	2.7	0	
25		[illegible]	2450	2730	247	89	77	70	16	2.1	0	
26		[illegible].4	2190	1880	282	86	120	64	15	1.8	0	
27		1.[illegible]	2520	190[illegible]	229	83	514	62	15	1.6	0	
28		1.[illegible]	990	1030	208	82	238	60	16	1.4	0	
29		1.[illegible]	[illegible]59	797	191	80	166	57	12	1.2	0	
30		1.9	491	672		77	140	55	11	1.1	0	
31		—	[illegible]40	595	—	77	—	53	—	0.9	0	—
Mean	[illegible]	[illegible].2	1295	[illegible]	[illegible]	118	131	115	28.0	5.7	0.3	0
Ac-Ft	[illegible]	14	79[illegible]0	[illegible]3750	15[illegible]30	7250	7780	7080	1670	349	20	0

Maximum Discharge	Water Year 30,000 c.f.s. December 23, 1955 Of Record 30,000 c.f.s. December 23, 1955	Total Runoff in Acre-Feet	1955-Calendar Year 95710 1955-56 Water Year 158500

U. S. Geological Survey and Department of Water Resources cooperative station located 4.3 miles west of Raymond. Drainage area is 238 square miles. Chowchilla River is an east-side tributary to the San Joaquin River at Mile 151.0R above mouth. Period of record October 1921 to September 1923; October 1930 to date. Records computed by U. S. Geological Survey.

TABLE 121

SALT SLOUGH NEAR LOS BANOS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	69	35	34	498	600	372	150	139	245	107	108	109
2	65	32	36	496	585	345	139	137	255	112	101	109
3	66	32	36	496	572	258	130	130	256	116	105	101
4	64	32	36	486	558	196	126	105	258	128	114	89
5	63	34	36	498	545	170	138	104	248	121	120	88
6	60	34	35	523	536	168	139	97	259	119	110	101
7	59	34	36	500	525	162	141	97	259	112	110	97
8	57	34	36	496	521	153	138	98	232	106	106	102
9	55	32	38	498	519	156	135	97	206	106	101	96
10	53	34	40	496	517	146	132	93	205	105	97	87
11	52	36	40	494	514	131	138	91	201	103	99	84
12	51	38	41	490	510	122	140	85	196	101	106	89
13	48	38	40	480	506	118	138	85	180	98	105	89
14	47	38	42	476	500	126	131	82	137	98	100	86
15	46	38	49	476	492	141	131	75	128	101	98	93
16	46	38	49	484	484	141	128	75	134	104	101	99
17	47	38	43	484	476	161	119	85	130	109	106	98
18	44	38	42	494	444	155	112	89	126	111	115	97
19	44	37	42	494	334	161	105	93	111	105	110	95
20	43	36	39	506	288	170	91	94	109	105	109	100
21	42	37	38	525	374	170	88	99	111	101	107	84
22	40	36	40	514	426	180	92	96	111	104	101	84
23	40	36	57	512	438	158	101	93	111	102	96	81
24	38	36	101	506	448	149	102	101	101	115	104	84
25	34	36	135	525	438	150	105	104	112	104	109	85
26	34	34	153	556	434	146	108	101	120	104	101	84
27	34	34	407	578	419	141	125	122	116	108	103	89
28	34	33	454	596	403	139	175	166	118	120	101	95
29	34	33	503	611	381	139	184	205	114	112	101	97
30	32	33	521	620		143	160	216	108	114	105	99
31	34	—	519	618	=	150	—	226	—	122	112	—
Mean	47.6	35.2	120	517	475	168	128	112	167	109	105	93.0
Ac-Ft	2930	2090	7370	31790	27350	10350	7620	6900	9910	6690	6470	5540

Maximum Discharge		Total Runoff in Acre - Feet	
Water Year	620 c.f.s. January 30, 1956	1955 - Calendar Year	64880
Of Record	1,440 c.f.s. June 4, 1952	1955 - 56 Water Year	125000

U. S. Geological Survey and U. S. Bureau of Reclamation cooperative station located at San Luis Ranch seven miles north of Los Banos. Salt Slough is an overflow channel of the San Joaquin River. Period of record December 1940 to date. Records computed by U. S. Geological Survey.

TABLE 122

MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1			0	868	197	58	17	19	6.0			
2			0	819	145	54	18	17	6.0			
3			0	754	132	50	18	16	6.0			
4			0	671	119	48	18	16	6.0			
5			0	568	110	44	18	19	6.0			
6			6.0	430	100	42	17	19	5.0			
7			69	230	91	40	16	16	5.0			
8			30	154	82	37	15	17	NR			
9			15	141	77	35	13	19	NR			
10			24	114	71	35	13	35	NR			
11			14	99	66	33	17	32	NR			
12			6.0	88	63	32	48	25	NR			
13	N	N	5.0	80	58	30	56	19	NR	N	N	N
14	O	O	3.0	77	56	30	40	17	NR	O	O	O
15			2.0	172	54	28	46	15	NR			
16			2.0	435	50	26	40	12	NR			
17	P	F	2.0	382	48	26	31	11	NR	R	R	R
18	L	L	1.0	261	48	25	28	11	NR	E	E	E
19	O	O	26	160	48	23	25	11	NR	C	C	C
20	W	W	148	141	46	23	23	11	NR	O	O	O
21			136	140	42	23	19	10	NR	R	R	R
22			337	121	40	22	17	9.0	NR	D	D	D
23			1194	435	103	21	16	9.0	NR			
24			4518	503	148	19	15	8.0	NR			
25			1640	523	94	19	13	8.0	NR			
26			996	599	120	19	16	7.0	NR			
27			1145	664	91	18	48	7.0	NR			
28			990	639	77	17	40	7.0	NR			
29			970	577	66	17	30	7.0	NR			
30			940	481		17	22	6.0	NR			
31		—	905	346	=	17	—	6.0	—			—
Mean	0	0	456	376	84	30	25	14				
Ac-Ft	0	0	28008	23145	4842	1840	1493	874				

Maximum Discharge		Total Runoff in Acre - Feet	
Water Year	6,020 c.f.s. December 24, 1955	1955 - Calendar Year	35750
Of Record	6,020 c.f.s. December 24, 1955	1955 - 56 Water Year	

U. S. Corps of Engineers station located 1.5 miles below Mariposa Dam. Drainage area is 108 square miles. Mariposa Creek is an east-side tributary, via Bear Creek, to the San Joaquin River between Dos Palos and Fremont Ford. Period of record November 1952 to date.

TABLE 123

OWENS CREEK BELOW OWENS RESERVOIR

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	1.0	1.0	2.0	159	23	7.0	3.0	2.0	1.0	1.0	1.0	1.0
2	1.0	1.0	2.0	155	20	6.0	3.0	2.0	1.0	1.0	1.0	1.0
3	1.0	1.0	1.0	151	18	6.0	3.0	2.0	1.0	1.0	1.0	1.0
4	1.0	1.0	1.0	145	16	6.0	2.0	2.0	1.0	1.0	1.0	1.0
5	1.0	1.0	1.0	140	15	5.0	2.0	3.0	1.0	1.0	1.0	1.0
6	1.0	1.0	3.0	135	15	5.0	2.0	2.0	1.0	1.0	1.0	1.0
7	1.0	1.0	5.0	126	13	5.0	2.0	2.0	1.0	1.0	1.0	1.0
8	1.0	1.0	3.0	117	13	5.0	2.0	2.0	0.5	1.0	1.0	1.0
9	1.0	1.0	3.0	104	11	5.0	2.0	3.0	0.3	1.0	1.0	1.0
10	1.0	1.0	3.0	84	11	5.0	2.0	4.0	0.3	1.0	1.0	1.0
11	1.0	1.0	2.0	31	10	4.0	3.0	3.0	0.2	1.0	1.0	1.0
12	1.0	1.0	2.0	11	10	4.0	8.0	2.0	0.2	1.0	1.0	1.0
13	1.0	1.0	2.0	11	9.0	4.0	4.0	2.0	0.2	1.0	1.0	1.0
14	1.0	1.0	2.0	12	9.0	4.0	4.0	2.0	0.2	1.0	1.0	1.0
15	1.0	1.0	2.0	29	9.0	4.0	4.0	2.0	0.3	1.0	1.0	1.0
16	1.0	1.0	2.0	72	8.0	4.0	3.0	2.0	0.5	1.0	1.0	1.0
17	1.0	1.0	2.0	39	7.0	4.0	3.0	2.0	0.8	1.0	1.0	1.0
18	1.0	1.0	2.0	22	7.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0
19	1.0	1.0	2.0	18	7.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0
20	1.0	1.0	2.0	22	7.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0
21	1.0	1.0	3.0	18	6.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0
22	1.0	1.0	43	18	6.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0
23	1.0	1.0	151	75	15	3.0	2.0	2.0	1.0	1.0	1.0	1.0
24	1.0	1.0	365	80	9.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0
25	1.0	1.0	239	76	7.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0
26	1.0	1.0	184	85	12	3.0	3.0	2.0	1.0	1.0	1.0	1.0
27	1.0	1.0	222	104	8.0	3.0	5.0	2.0	1.0	1.0	1.0	1.0
28	1.0	1.0	167	100	7.0	3.0	4.0	2.0	1.0	1.0	1.0	1.0
29	1.0	1.0	167	88	7.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0
30	1.0	1.0	165	66		3.0	2.0	1.0	1.0	1.0	1.0	1.0
31	1.0	—	161	29	—	3.0	—	1.0	—	1.0	1.0	—
Mean	1.0	1.0	62	75	11	4.0	3.0	2.0	1.0	1.0	1.0	1.0
Ac-Ft	61	60	3790	4606	625	248	167	129	48	61	61	60

Maximum Discharge			Total Runoff in Acre-Feet	
	Water Year	590 c.f.s. December 24, 1955		1955-Calendar Year 5371
	Of Record	590 c.f.s. December 24, 1955		1955-56 Water Year 9916

U. S. Corps of Engineers station located one-fourth mile below Owens Dam. Drainage area is 25.6 square miles. Owens Creek is an east-side tributary, via Mariposa Creek and Bear Creek, to the San Joaquin River between Dos Palos and Fremont Ford. Period of record February 1950 to date.

TABLE 124

BEAR CREEK BELOW BEAR RESERVOIR

Date	Daily Mean Flow in Second-Feet Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec	Jan.	Feb	March	April	May	June	July	Aug	Sept
1			0	142		66	12	12	6.0	1.0		
2			0	123		52	13	11	6.0	1.0		
3			0	116		42	12	10	5.0	1.0		
4			0	102		37	12	11	5.0	1.0		
5			0	132		33	11	13	5.0	1.0		
6			74	216		30	11	12	5.0	1.0		
7			164	143		27	10	11	5.0	1.0		
8			80	202		25	10	11	5.0	1.0		
9			75	153		24	10	13	5.0	1.0		
10			85	128		23	9.0	17	5.0	1.0		
11			55	115		22	13	17	4.0	0		
12			50	100		21	31	14	4.0	0		
13	N	N	40	95	N	20	27	12	4.0	0	N	N
14	O	O	35	97	O	20	23	11	4.0	0	O	O
15			30	262		19	23	10	4.0	0		
16			30	602		18	21	9.0	4.0	0		
17	F	F	25	233		18	17	9.0	4.0	0	F	F
18	L	L	25	165	R	18	15	8.0	3.0	0	L	L
19	O	O	27	139	E	17	13	8.0	3.0	0	O	O
20	W	W	184	139	C	17	13	7.0	3.0	0	W	W
21			132	139	O	17	12	7.0	3.0	0		
22			691	124	R	16	11	7.0	3.0	0		
23			2204	567	D	16	10	7.0	2.0	0		
24			3309	305		15	10	7.0	2.0	0		
25			1731	414		15	9.0	6.0	2.0	0		
26			1555	626		14	12	6.0	2.0	0		
27			1490	1085		13	21	6.0	2.0	0		
28			1161	437		13	24	6.0	1.0	0		
29			332	220		13	17	6.0	1.0	0		
30			150	179		13	14	6.0	1.0	0		
31		—	115	157	—	12	—	6.0	—	0		—
Mean		0	447	247		23	15	9.6	4.0	0.3	0	0
Ac-Ft	0	0	27479	15188		1400	885	589	214	20	0	0

Maximum Discharge			Total Runoff in Acre-Feet	
	Water Year	4,4[illegible] c.f.s. December 24, 1955		1955-Calendar Year
	Of Record	4,4[illegible] c.f.s. December 24, 1955		1955-56 Water Year

U. S. Corps of Engineers station located at out rating box of dam. Bear Creek is an east-side tributary to the San Joaquin River between Dos Palos and Fremont Ford. Period of record January 1955 to date.

TABLE 125

BURNS CREEK BELOW BURNS RESERVOIR

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb	March	April	May	June	July	Aug.	Sept.
1			0	108	67	22	3.0	6.0				
2			0	83	54	15	3.0	5.0				
3			0	70	46	13	3.0	3.0				
4			0	58	42	12	3.0	3.0				
5			0	285	39	11	2.0	3.0				
6			6.0	220	35	10	2.0	3.0				
7			2.0	120	31	10	2.0	3.0				
8			1.0	225	28	10	2.0	3.0				
9			5.0	118	25	9.0	1.0	4.0				
10			1.0	92	24	9.0	1.0	5.0				
11			0	79	23	9.0	1.0	5.0				
12			0	65	22	9.0	2.0	5.0				
13	N	N	0	59	21	8.0	4.0	5.0	N	N	N	N
14	O	O	0	75	20	8.0	6.0	5.0	O	O	O	O
15			0	325	19	8.0	6.0	4.0				
16			0	462	18	8.0	6.0	3.0				
17	F	F	0	147	17	8.0	6.0	2.0	F	F	F	F
18	L	L	0	108	17	8.0	5.0	2.0	L	L	L	L
19	O	O	0	88	17	8.0	4.0	1.0	O	O	O	O
20	W	W	1.0	153	17	7.0	2.0	1.0	W	W	W	W
21			1.0	123	15	7.0	2.0	0				
22			310	103	15	6.0	2.0	0				
23			1873	490	88	6.0	1.0	0				
24			2360	187	43	6.0	1.0	0				
25			2039	312	26	5.0	1.0	0				
26			1848	509	80	5.0	2.0	0				
27			1809	747	38	4.0	4.0	0				
28			764	209	25	4.0	11	0				
29			153	144	23	4.0	7.0	0				
30			105	113		4.0	4.0	0				
31		—	169	95	—	4.0	—	0	—			—
Mean	0	0	369	193	32	8.0	3.0	2.0	0	0	0	0
Ac-Ft	0	0	22705	11845	1855	510	196	141	0	0	0	0

Maximum Discharge		Total Runoff in Acre - Feet	
Water Year	2,590 c.f.s. December 24, 1955	1955 - Calendar Year	28640
Of Record	2,590 c.f.s. December 24, 1955	1955 - 56 Water Year	37250

U. S. Corps of Engineers station located one-half mile below Burns Dam. Drainage area is 73.8 square miles. Burns Creek is an east-side tributary, via Bear Creek, to the San Joaquin River between Doa Palos and Fremont Ford. Period of record April 1950 to date.

TABLE 126

SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	80	27	44	4320	4310	3690	409	1070	2010	202	204	196
2	82	33	40	4250	4290	3630	472	971	2060	206	170	196
3	74	31	44	4320	4300	3480	530	881	2120	217	161	213
4	70	31	43	4250	4200	3230	530	815	2130	240	161	229
5	68	29	43	4250	4130	2900	525	728	2180	256	194	206
6	58	26	38	4270	4060	2560	528	764	2180	254	220	191
7	64	29	40	4270	4040	2300	515	794	2220	278	200	204
8	61	28	49	4230	4020	2070	525	776	2030	270	215	199
9	57	28	55	4160	3990	1910	518	712	1680	263	207	200
10	54	54	51	4090	3990	1820	518	695	1480	280	188	229
11	51	38	52	4050	3980	1760	528	738	1410	294	173	270
12	53	43	76	4020	3970	1690	637	798	1380	269	166	274
13	43	43	74	4000	3960	1560	763	825	1330	267	178	286
14	38	56	48	3970	3940	1410	817	796	1290	254	166	267
15	41	57	45	3940	3920	1260	892	686	1150	258	180	252
16	44	55	46	3930	3900	1050	943	556	893	252	202	225
17	44	58	68	3950	3840	832	949	474	692	234	215	234
18	44	59	65	4040	3810	703	904	527	551	242	213	238
19	45	60	50	4080	3760	601	847	527	454	247	222	282
20	45	66	49	4090	3650	570	781	569	356	243	213	320
21	45	65	45	4040	3590	558	673	576	314	225	216	320
22	42	64	45	3990	3600	505	532	616	285	225	236	298
23	33	61	93	3940	3660	480	485	685	274	222	224	306
24	39	60	904	3930	3710	470	488	803	273	209	192	290
25	37	58	2500	4050	3780	452	460	995	265	213	199	278
26	32	58	3490	4170	3800	425	411	1180	255	194	196	260
27	31	57	4240	4190	3810	409	490	1320	252	178	192	225
28	31	56	4330	4220	3790	391	913	1480	237	186	191	207
29	27	49	4390	4390	3740	372	1100	1630	223	197	183	199
30	24	44	4360	4410		358	1160	1830	206	191	173	199
31	29	—	4360	4360	—	365	—	1950	—	181	183	—
Mean	47.9	47.4	961	4135	3915	1413	661	896	1073	234	195	243
Ac-Ft	2950	2820	59060	254200	225200	86900	39360	55080	63830	14370	11970	14470

Maximum Discharge		Total Runoff in Acre - Feet	
Water Year	4,420 c.f.s. January 30, 1956	1955 - Calendar Year	177100
Of Record	4,470 c.f.s. March 25, 1952	1955 - 56 Water Year	830200

U. S. Geological Survey, U. S. Bureau of Reclamation and Department of Water Reaources cooperative station located below Gustine-Stevinson highway bridge, Mile 129.5L above mouth and 5.7 miles above the confluence of the Merced River. Drainage area is approximately 8,090 square miles. Period of record February 1937 to date. Recorda computed by U. S. Geological Survey.

TABLE 127

MERCED RIVER AT EXCHEQUER

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	43	41	50	4780	4090	1250	1550	4730	6560	3080	1850	1420
2	44	32	51	3360	2180	1250	1570	3950	5790	2760	1820	1410
3	43	30	51	2980	1760	1260	1580	3650	6240	2450	1780	1420
4	44	31	48	3060	1270	1270	1580	5520	6360	2220	1730	1410
5	44	34	49	3440	1500	1270	1580	6390	6250	2080	1680	1410
6	44	34	55	3340	2000	1270	1570	5660	4980	2020	1670	1400
7	49	34	50	2200	1870	1300	1580	3800	5030	2020	1690	1370
8	53	35	48	1550	1540	1280	1580	3760	5720	2000	1700	1330
9	53	37	48	1530	1550	1280	1580	3820	5970	1900	1620	1310
10	53	37	49	1520	1250	1270	1590	3860	6130	1860	1610	1330
11	53	38	50	1250	1260	1250	1590	3230	6280	1890	1630	1280
12	51	39	51	1240	1260	1280	1460	2980	5930	1880	1650	1280
13	50	40	52	1740	1250	1280	1460	2940	5410	1860	1580	1280
14	50	40	52	3130	1260	1280	1480	4150	3950	1820	1570	1280
15	49	40	53	3130	1250	1270	1420	4230	2240	1750	1570	1260
16	46	43	53	5070	1270	1390	1470	3460	3080	1740	1550	1240
17	46	45	52	5160	1270	1390	1470	3550	3380	1730	1520	1220
18	46	46	49	5110	1260	1330	1470	4390	4040	1770	1510	1220
19	53	46	46	3970	1250	1360	1480	5010	4400	1790	1540	1200
20	55	48	44	2280	1250	1390	1620	4670	4360	1800	1530	1130
21	51	48	51	2000	1250	1400	1910	5850	3560	1820	1520	1090
22	52	50	65	2060	1260	1400	2200	6720	3640	1820	1520	1060
23	51	53	122	4490	1240	1500	2300	7150	4020	1830	1500	1040
24	50	54	6800	5550	1240	1510	1660	8020	4010	1860	1490	1040
25	49	50	8980	5890	1260	1540	1580	7770	3660	1900	1500	1040
26	48	45	8980	6430	1270	1540	1600	7660	3480	1910	1500	1040
27	48	46	9500	7340	1250	1520	1500	7100	3780	1880	1500	1040
28	48	48	9140	7270	1260	1540	1340	7640	3960	1880	1490	1020
29	46	48	9000	6790	1250	1580	1340	6840	3760	1900	1480	1010
30	46	48	8320	6480		1600	3580	6780	3440	1900	1450	1010
31	45	—	6330	5790	—	1570	—	6900	—	1890	1430	—
Mean	48.5	42.0	2203	3869	1478	1375	1656	5232	4647	1968	1586	1220
Ac-Ft	2980	2500	135400	237900	85030	84540	98560	321700	276500	121000	97550	72580

Maximum Discharge	Water Year Of Record	10,400 c.f.s. December 27, 1955 46,200 c.f.s. December 4, 1950	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	658200 1536000

U. S. Geological Survey and Merced Irrigation District cooperative station located 0.65 mile below Lake McClure. Drainage area is 1,035 square miles. Period of record October 1922 to date. (Prior records available at a site one mile upstream.) Records computed by U. S. Geological Survey.

TABLE 128

MERCED RIVER BELOW SNELLING

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug.	Sept.
1	1.4	1.4	4.6	6120	5040	1230	61	3730	5320	935	61	5.9
2	1.2	1.2	5.0	3900	2280	1140	66	3230	4120	550	•46	4.7
3	1.2	1.2	3.8	3390	1750	1210	63	2490	4530	290	•34	4.7
4	1.2	1.2	3.1	3500	•1580	1200	63	3960	4680	169	•28	5.9
5	1.2	1.4	3.5	4000	•1470	1180	63	5630	4800	122	•20	5.9
6	1.2	1.4	6.2	4080	•2020	1200	61	5210	3480	75	•14	5.1
7	1.2	1.4	7.1	3080	•2080	1200	89	2920	3160	42	•11	5.1
8	1.2	1.8	8.8	1980	•1960	1180	109	2660	3730	36	•7.6	9.7
9	1.0	2.0	8.3	1880	1830	1160	106	2660	4350	•36	7.6	11
10	0.8	2.3	9.4	1870	1480	1160	129	2720	4450	•31	6.9	8.2
11	1.0	2.0	10	1590	1520	1160	255	2170	4700	•26	5.6	10
12	1.0	2.0	9.4	1540	1470	1140	397	1760	4550	44	5.6	8.2
13	1.0	3.1	9.4	1670	1430	1140	300	1680	3920	73	5.6	11
14	0.8	4.2	8.8	3670	1420	1080	326	2090	2940	70	5.6	14
15	0.6	3.5	9.4	3850	1420	550	332	3800	295	25	5.6	8.2
16	0.6	4.2	10	•5400	1390	405	346	2040	829	10	5.5	6.6
17	0.6	5.4	11	•5700	1380	540	362	1890	1300	6.2	5.1	6.3
18	0.8	4.6	10	•5600	1380	568	347	2470	2010	12	5.9	9.2
19	0.8	4.6	9.4	•5250	1390	419	337	3660	2530	22	7.4	12
20	1.2	3.8	8.8	•2520	1380	423	390	2870	2640	20	8.2	13
21	1.2	4.2	6.6	•2250	1350	389	502	3930	1760	42	11	26
22	1.4	2.7	43	•2300	1340	315	833	5270	1630	78	12	31
23	1.4	1.6	4430	•4300	1380	214	919	5360	1980	80	11	33
24	1.6	1.0	9080	•5900	1330	180	369	6480	2130	66	8.6	12
25	1.8	1.0	11000	6390	1310	157	177	6300	1790	66	7.0	5.5
26	2.0	1.6	10100	6920	1320	142	224	6440	1440	48	7.4	3.9
27	2.3	2.3	9800	7400	1310	150	418	5520	1550	78	8.6	3.4
28	2.3	2.7	9030	7420	1290	112	307	5980	1970	63	8.2	3.4
29	2.3	2.5	8950	6970	1270	86	346	5600	1670	70	8.6	3.1
30	2.0	2.5	8870	6700		66	1730	5210	1400	70	7.8	3.4
31	1.8	—	7260	6120	—	56	—	5450	—	73	6.3	—
Mean	1.3	2.5	2540	4299	1640	682	334	3909	2855	107	12.7	9.6
Ac-Ft	80	148	156100	264300	94150	41950	19890	240400	169900	6601	779	574

Maximum Discharge	Water Year Of Record	12,700 c.f.s. December 24, 1955 26,000 c.f.s. December 4, 1950	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	169800 995100

Department of Water Resources station located at Merced-Snelling highway bridge, Mile 42.1 above mouth. Period of record 1930 to date.

• Estimated

TABLE 129

MERCED RIVER AT CRESSEY

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	45	49	74	7340	5880	1350	150	3280	5380	1580	98	87
2	48	49	79	3980	3480	1290	153	3730	4620	1290	94	89
3	52	50	80	3670	2360	1300	152	2720	4490	1020	94	91
4	51	52	80	3400	1640	1320	143	3020	4720	778	98	84
5	56	54	80	3970	1500	1320	143	5330	4870	593	91	82
6	53	54	84	4840	2020	1300	148	5500	4150	472	84	82
7	52	53	88	3620	2100	1320	146	3860	3390	352	80	79
8	52	51	93	2480	1900	1320	160	2950	3580	293	79	81
9	51	47	93	2020	1700	1320	170	2880	4260	284	73	85
10	51	46	90	1900	1470	1320	158	2980	4360	237	70	90
11	51	50	85	1670	1410	1320	206	2770	4540	146	66	98
12	51	55	84	1590	1400	1310	502	2220	4620	131	66	105
13	51	52	84	1540	1390	1300	584	2050	4130	126	59	103
14	50	55	82	2720	1380	1290	518	2040	3680	131	58	105
15	49	57	81	3590	1380	1050	584	3870	1540	128	61	107
16	50	59	82	5500	1360	742	569	2510	981	114	63	107
17	50	61	84	5840	1360	739	617	2160	1530	99	64	100
18	49	63	85	5760	1360	861	620	2340	1870	91	63	98
19	49	62	88	5490	1360	765	608	3740	2530	98	69	106
20	49	61	96	3770	1350	713	617	2920	2850	102	68	113
21	49	63	91	2530	1350	710	697	3350	2310	91	68	118
22	50	63	94	2350	1350	638	936	4910	1870	94	69	120
23	50	62	3200	3280	1390	499	1240	5180	2120	106	78	124
24	50	65	7090	5720	1390	396	879	6060	2440	103	75	116
25	50	64	10200	6340	1370	306	543	6250	2320	96	80	112
26	50	66	10200	6730	1390	272	381	6460	1820	98	78	99
27	49	67	11700	8030	1400	255	608	5790	1780	92	79	98
28	49	69	10900	8020	1370	227	732	5760	2230	95	79	98
29	49	73	10500	7590	1360	172	611	6160	2140	92	80	98
30	49	73	10300	7190		160	803	5150	1980	94	82	94
31	49	—	9160	6780	—	143	—	5380	—	96	84	—
Mean	50.1	58.2	2746	4492	1730	872	479	3978	3103	294	75.8	99.0
Ac-Ft	3082	3461	168800	276200	99510	53610	28520	244600	184700	18090	4661	5889

Maximum Discharge	Water Year Of Record	12,300 c.f.s. December 27, 1955	Total Runoff in Acre-Feet	1955-Calendar Year	228500
				1955-56 Water Year	1091000

Department of Water Resources station located at Cressey Bridge, Mile 27.6 above mouth. Period of record 1941 to date.

TABLE 130

MERCED RIVER NEAR STEVINSON

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	96	96	120	8230	6520	1620	476	1790	5250	1940	230	226
2	105	95	123	6660	5290	1600	476	3500	5140	1650	226	233
3	92	95	120	4530	3210	1550	464	3330	4510	1320	224	254
4	107	95	126	3790	2540	1560	460	2910	4650	1060	232	235
5	89	95	129	3760	2070	1540	460	3940	4720	862	251	227
6	96	93	127	4950	2030	1520	438	5000	4640	792	276	233
7	102	93	130	4390	2260	1500	438	4740	3840	730	276	219
8	104	94	130	3320	2230	1490	451	3370	3660	658	259	217
9	107	93	138	2590	2000	1480	510	3150	4010	620	232	229
10	102	87	138	2260	1920	1490	446	3140	4310	567	227	224
11	103	85	142	2140	1750	1480	462	3180	4430	517	221	207
12	114	83	142	1940	1720	1480	615	2780	4550	462	213	216
13	122	100	141	1850	1690	1460	790	2490	4390	422	207	223
14	112	113	139	1940	1670	1450	835	2410	3940	394	195	241
15	114	110	138	3200	1650	1380	900	2860	3110	389	181	249
16	133	111	139	4170	1620	1100	945	3460	1370	385	166	232
17	144	115	141	5400	1610	922	948	2550	1580	378	180	246
18	132	113	143	5500	1590	954	939	2420	1860	342	203	237
19	124	112	141	5490	1580	975	908	2910	2340	318	227	227
20	117	112	145	4800	1560	908	868	3540	2820	296	243	276
21	108	115	149	3320	1540	902	870	3200	2900	280	221	336
22	113	112	152	2590	1520	840	920	3940	2210	268	214	306
23	114	113	206	2570	1520	770	1260	4720	2090	261	212	306
24	117	115	3630	4460	1540	685	1370	4960	2350	256	195	280
25	114	118	5940	5510	1600	615	942	5640	2510	240	181	251
26	111	114	7670	6080	1610	582	742	5730	2220	223	233	238
27	113	115	9280	6770	1640	517	760	5950	1930	213	232	232
28	113	117	10900	7550	1660	478	910	5460	2060	206	206	226
29	104	116	10200	7630	1630	488	936	5680	2270	205	187	210
30	98	116	9810	7310		469	910	5470	2130	217	186	251
31	96	—	9540	7000	—	453	—	5120	—	227	194	—
Mean	110	105	2264	4568	2096	1105	748	3850	3260	539	217	243
Ac-Ft	6780	6230	139200	280900	120500	67950	44530	236700	194000	33120	13350	14450

Maximum Discharge	Water Year Of Record	11,200 c.f.s. December 28, 1955 13,600 c.f.s. December 5, 1950	Total Runoff in Acre-Feet	1955-Calendar Year	238100
				1955-56 Water Year	1158000

U. S. Geological Survey, U. S. Bureau of Reclamation, and Department of Water Resources cooperative station, also known as "Merced River below Stevinson Drain", located at Mile 4.6R above mouth. Drainage area is 1,274 square miles. Merced River is an east-side tributary to the San Joaquin River at Mile 123.75R above mouth. Period of record 1944 to date. (Prior records available at a site 3.5 miles downstream.) Records computed by U. S. Geological Survey.

TABLE 131

SAN JOAQUIN RIVER NEAR NEWMAN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	183	136	180	15600	15000	7420	940	2420	7200	2130	456	432
2	187	140	180	14400	13900	7220	984	3930	7260	1870	417	441
3	180	140	176	12700	12100	6930	1010	4190	6890	1580	408	477
4	176	140	180	11700	11000	6440	1010	3670	6790	1340	420	474
5	161	138	185	11500	10100	5810	984	4160	6870	1150	484	456
6	159	130	183	11900	9660	5130	962	5410	6930	1020	536	447
7	163	128	183	12000	9580	4530	944	5600	6470	953	498	447
8	165	136	189	11400	9450	4080	958	4520	5900	870	471	444
9	167	128	205	10600	9180	3760	984	3900	5760	842	459	450
10	161	144	201	9990	8960	3620	930	3790	5860	786	447	471
11	159	140	203	9560	8740	3520	935	3850	5880	750	420	498
12	161	136	217	9170	8600	3430	1120	3620	5930	669	411	515
13	172	154	231	8920	8510	3310	1380	3290	5840	641	426	536
14	159	174	201	8790	8430	3120	1500	3130	5460	616	393	543
15	163	178	194	9400	8330	2890	1630	3170	4760	613	387	526
16	169	176	194	9990	8040	2430	1750	4080	2670	644	408	477
17	189	180	205	10700	8020	1970	1780	3160	2220	582	414	480
18	178	183	222	11100	7780	1830	1760	2870	2380	543	447	490
19	174	180	205	11400	7610	1760	1670	3140	2640	546	459	515
20	169	183	205	11500	7340	1660	1570	4010	3030	515	484	606
21	159	189	205	10800	7200	1610	1480	3770	3160	498	462	680
22	161	185	205	9920	6950	1510	1390	4230	2600	477	471	641
23	157	185	252	9470	6990	1400	1550	5200	2320	477	453	648
24	161	187	2920	9970	7160	1300	1420	5610	2500	456	414	638
25	159	189	6270	11000	7370	1200	1360	6340	2740	447	390	582
26	152	185	8840	11800	7530	1140	1110	6740	2530	414	420	560
27	154	185	12100	12700	7640	1050	1130	7080	2180	411	441	515
28	154	187	15600	13800	7620	989	1610	7020	2150	393	414	487
29	146	183	16700	15300	7550	971	1930	7110	2440	429	384	453
30	134	187	16600	16000		922	1990	7300	2300	435	369	480
31	136	—	16300	15600	—	894	—	7110	—	435	381	—
Mean	163	164	3224	11570	8839	3027	1326	4626	4389	759	434	514
Ac-Ft	10050	9730	198200	711400	508400	186100	78880	284500	261100	46680	26670	30560

Maximum Discharge			Total Runoff in Acre - Feet		
	Water Year Of Record	16,800 c.f.s. December 29, 1955 33,000 c.f.s. March 7, 1938		1955 - Calendar Year 1955 - 56 Water Year	432400 2352000

U. S. Geological Survey and Department of Water Resources cooperative station located at Hills Ferry bridge, Mile 123.7 above mouth and just below the confluence of the Merced River. Combine flow with Merced River Slough near Newman (Table 132) to give total flow passing this point. Drainage area is 9,990 square miles. Period of record April 1912 to date. Records computed by U. S. Geological Survey.

TABLE 132

MERCED RIVER SLOUGH NEAR NEWMAN

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1			0	2980	1810	62		17	381	12		
2			0	2060	1120	57		124	368	4.0		
3			0	833	493	46		116	276	2.0		
4			0	537	334	39		74	290	1.0		
5			0	505	214	30		180	296	0		
6			0	746	185	20		332	293	0		
7			0	647	205	14		301	179	0		
8			0	441	198	10		115	139	0		
9			0	302	158	7.6		90	184	0		
10			0	217	137	6.4		88	227	0		
11			0	181	110	5.2		91	240	0		
12			0	142	101	3.9		64	251	0		
13	N	N	0	125	95	3.1	N	42	229	0	N	N
14	0	0	0	126	92	2.3	0	36	172	0	0	0
15			0	280	88	1.0		63	96	0		
16			0	428	81	0.1		129	1.4	0		
17	P	P	0	689	80	0	P	45	1.6		P	P
18	L	L	0	764	74	0	L	35	9.2	0	L	L
19	O	O	0	840	69	0	O	65	32	0	O	O
20	W	W	0	702	62	0	W	127	60	0	W	W
21			0	432	58	0		89	70	0		
22			0	270	52	0		169	25	0		
23			0	234	52	0		281	20	0		
24			143	500	58	0		317	35	0		
25			482	784	62	0		412	40	0		
26			855	1090	65	0		423	25	0		
27			2310	1510	68	0		460	12	0		
28			4140	2060	70	0		402	20	0		
29			4040	2350	66	0		428	30	0		
30			3850	2350		0		413	20	0		
31		—	3660	2140	—	0	—	364	—	0		—
Mean	0	0	628	880	216	9.9	0	190	134	0.6	0	0
Ac-Ft	0	0	38640	54080	12410	610	0	11690	7980	38	0	0

Maximum Discharge			Total Runoff in Acre - Feet		
	Water Year Of Record	4,240 c.f.s. December 28, 1955 4,410 c.f.s. December 5, 1950		1955 - Calendar Year 1955 - 56 Water Year	38640 125400

U. S. Geological Survey, U. S. Bureau of Reclamation, and Department of Water Resources cooperative station located 500 feet below the head of the slough between Merced River and San Joaquin River. Also known as "Merced River Slough near Hills Ferry Road Bridge". This station records the flow which at high stages in the Merced River bypasses the Hills Ferry Road Bridge and reaches the San Joaquin River at Mile 122.2R above mouth, 1.5 miles below San Joaquin River near Newman gaging station. Period of record October 1941 to date. Records computed by U. S. Geological Survey.

TABLE 133

ORESTIMBA CREEK NEAR NEWMAN

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	124	74	30	6.6	0.9	0.2	0.1		
2			0	122	61	26	6.2	0.8	0.2	0.1		
3			0	80	54	25	5.6	0.9	0.2	0.1		
4			0	60	49	25	5.2	0.8	0.2	0.1		
5			0	110	46	23	4.8	1.0	0.2	0.1		
6			0	165	40	22	4.3	1.0	0.2	0.1		
7			0	105	36	19	4.0	0.8	0.2	0.1		
8			0	180	34	18	3.6	1.1	0.1	0.1		
9			0	114	31	18	3.4	1.4	0.1	0.1		
10			0	90	29	16	3.1	1.8	0.1	0.1		
11			0	75	27	16	4.5	1.7	0.1	0.1		
12			0	60	26	15	13	1.1	0	0.1		
13	N	N	0	50	23	14	9.1	0.7	0	0.2		
14	O	O	0	50	21	14	7.0	0.5	0	0.2	N	N
15			0	57	20	12	6.2	0.4	0	0.2	O	O
16			0	75	19	12	4.8	0.4	0.1	0.1		
17	F	F	0	67	18	12	4.0	0.4	0.1	0.1	F	F
18	L	L	0	56	19	11	3.1	0.4	0.1	0.1	L	L
19	O	O	0	48	18	10	2.4	0.4	0.1	0.1	O	O
20	W	W	0	67	22	9.6	2.1	0.3	0.1	0.1	W	W
21			0	74	31	9.6	1.8	0.2	0.1	0.1		
22			0	61	25	9.1	1.7	0.2	0.1	0.1		
23			3170	67	123	8.6	1.5	0.2	0.1	0.1		
24			1310	66	78	8.6	1.4	0.2	0.1	0.1		
25			300	478	53	8.6	1.4	0.2	0.1	0.1		
26			228	391	48	8.0	1.4	0.2	0.1	0.1		
27			205	464	44	7.3	1.8	0.1	0.2	0.1		
28			104	251	34	7.0	2.0	0.1	0.1	0.1		
29			62	162	32	7.0	1.6	0.2	0.1	0.1		
30			47	117		6.6	1.4	0.2	0.1	0		
31		—	191	94	—	6.6	—	0.2	—	0		—
Mean	0	0	181	128	39.1	14.0	4.0	0.6	0.1	0.1	0	0
Ac-Ft	0	0	11140	7890	2250	862	236	37	7	6	0	0

Maximum Discharge		Total Runoff in Acre-Feet		
Water Year Of Record	5,620 c.f.s. December 23, 1955 5,620 c.f.s. December 23, 1955	1955-Calendar Year 1955-56 Water Year	11180 22430	

U. S. Geological Survey and Department of Water Reaources cooperative station located five milea weat of Newman. Drainage area ia 129 square miles. Orestimba Creek is a west-side tributary to the San Joaquin River at Mile 115L above mouth. Period of record January 1932 to date. Records computed by U. S. Geological Survey.

TABLE 134

SAN JOAQUIN RIVER AT GRAYSON (LAIRD SLOUGH)

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	300	235	300	14910	14220	6370	1195	2445	6760	2885	594	564
2	300	235	300	14470	13840	6230	1110	2630	6900	2520	620	505
3	320	240	300	13790	13260	5975	1160	3170	6945	2120	667	516
4	290	240	295	13400	12340	5640	1150	3310	6680	1830	701	530
5	270	240	290	12480	11460	5140	1160	3330	6370	1630	726	538
6	260	245	310	12270	10880	4690	1200	3935	6250	1470	785	583
7	260	235	305	12460	10180	4255	1155	4625	6060	1360	746	572
8	270	235	310	12450	9825	3895	1225	4790	5640	1275	709	634
9	300	230	320	12070	9440	3615	1225	4445	4980	1225	620	723
10	300	230	335	11400	9076	3400	1155	4135	4575	1160	645	749
11	295	230	330	10880	8680	3320	1155	4045	4510	1085	620	695
12	290	230	325	10540	8260	3220	1405	4050	4545	1000	575	690
13	290	235	340	10270	7880	3115	1700	3900	4510	1000	544	732
14	300	250	350	9735	7700	3040	1970	3610	4470	980	592	767
15	290	270	330	9405	7560	2905	2140	3215	3455	1005	642	737
16	380	285	315	10030	7470	2675	2250	3115	3920	1015	625	773
17	350	290	310	10780	7270	2235	2260	3225	3190	960	592	740
18	340	300	315	11180	7160	2080	2170	2855	2865	848	611	659
19	315	305	340	11620	6830	2000	2080	2755	2680	809	569	670
20	300	300	340	12000	6510	1875	1955	2970	2760	812	538	715
21	295	300	320	12010	6160	1785	1750	3275	3020	785	530	818
22	285	310	320	11490	6915	1730	1695	3345	2880	743	561	903
23	275	305	1050	10180	5725	1635	1640	3715	3135	729	569	903
24	270	310	1100	10820	5700	1515	1750	5000	2915	653	561	896
25	270	305	2000	10720	5820	1405	1770	4340	2760	586	538	842
26	270	300	1900	10540	5965	1345	1620	4015	2780	561	589	755
27	260	300	2250	10360	6130	1245	1685	5845	2675	530	561	776
28	260	300	9400	12990	6300	1200	2055	6315	2525	552	564	803
29	250	300	14650	13520	6410	1175	2415	6525	2760	631	580	800
30	245	295	15400	14200		1160	2550	7000	2895	720	608	764
31	235	—	15350	14430	—	1175	—	6650	—	695	625	—
Mean	288	270	2261	11851	8447	2937	1658	4083	4214	1102	613	712
Ac-Ft	17722	16036	139041	728668	485883	180585	98678	251068	250731	67783	37700	42351

Maximum Discharge		Total Runoff in Acre-Feet		
Water Year Of Record		1955-Calendar Year 1955-56 Water Year	433700 2316000	

Station ia maintained jointly by City of San Franciaco (Hetch Hetchy Water Supply), Department of Water Reaources, Modesto Irrigation District, and Turlock Irrigation Diatrict. It ia located at Laird Slough bridge, Mile 96.05 above mouth and five milea above the confluence of the Tuolumne River. High flows bypaaaing thia atation through old channel of San Joaquin River are included in thia Table. Period of record 1931 to date. Records computed by the City of San Franciaco.

TABLE 135

TUOLUMNE RIVER ABOVE LA GRANGE DAM

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug.	Sept.
1	723	666	981	8520	7460	3020	4210	3350	8250	6060	4620	2430
2	515	686	885	8520	5660	2600	3330	3390	8250	4190	5150	2440
3	909	689	663	8600	4680	2580	3370	3390	7740	3300	5100	2450
4	805	697	396	8680	4700	2570	3360	4940	7490	3200	4190	2460
5	733	505	1010	8680	4700	2560	3330	7070	7020	3190	3510	2490
6	800	196	1020	8700	3850	2630	3350	7250	6350	3190	3930	2500
7	710	741	918	8700	3490	2660	3340	7240	6680	3180	4060	2510
8	505	918	1130	8640	2760	2660	3290	7280	4930	3340	2620	2540
9	352	909	1060	8440	2330	2620	3290	7240	3590	3220	2260	2550
10	776	834	732	8360	2330	2620	3350	7210	3200	3340	2230	2560
11	668	886	530	8340	2330	2600	3350	7210	3200	3330	2240	2590
12	619	827	1260	8320	2320	2760	3750	7170	3230	2710	2250	2600
13	644	605	1380	4920	2290	3330	4050	6190	3630	2320	2230	2600
14	764	967	1430	5040	3090	3330	4040	5130	4910	2330	2250	2600
15	341	757	1350	6700	3480	3320	3970	4410	5840	2320	2260	2460
16	174	1020	1350	7790	3480	3300	3250	4170	7350	2310	2270	1900
17	362	757	1080	8390	3480	3780	2820	4550	6620	2310	2280	1960
18	315	757	797	8360	3200	3990	2600	4970	5920	2300	2220	1880
19	293	403	1380	7790	2300	3990	2590	4980	6270	2300	2290	1740
20	306	224	1130	7340	2290	4040	2620	4930	7000	2310	2300	1730
21	251	686	1210	5490	2330	4000	2650	5920	8360	2930	2340	1730
22	174	733	1910	4930	2510	4000	3370	6510	8370	3460	2350	1720
23	113	972	5960	6200	2570	3530	4060	7040	7420	4150	2350	1670
24	291	226	32800	7540	2600	3320	4100	8060	6100	4150	2350	1820
25	282	716	19900	7860	2590	3270	3770	8340	6410	4460	2360	1810
26	290	507	18400	8380	2570	3300	3950	8320	6510	5130	2380	1720
27	283	244	21000	8500	3020	3380	5370	8240	6960	6010	2330	1770
28	262	757	9400	8480	3300	3370	4900	8250	8100	6110	2390	1800
29	153	777	8520	8450	3300	3900	4820	7300	8550	6050	2410	1770
30	66	859	8520	8380		4810	3900	7660	7720	4940	2410	1710
31	237	—	8450	8330	—	4820	—	8220	—	4170	2420	—
Mean	442	684	5050	7786	3276	3312	3605	6320	6399	3623	2785	2150
Ac-Ft	27210	40700	310500	478800	188400	203600	214500	388600	380800	222800	171300	128000

Maximum Discharge	Water Year	41,700 c.f.s. December 24, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 1278000
	Of Record	61,000 c.f.s. December 8, 1950		1955 - 56 Water Year 2755000

U. S. Geological Survey, City of San Francisco (Hetch Hetchy Water Supply), Modesto Irrigation District, and Turlock Irrigation District cooperative station located 0.5 mile below Don Pedro Dam and 3.5 miles above La Grange Dam. Drainage area is 1,540 square miles. Period of record March 1915 to date. (Prior records available at a site 3.5 miles downstream.) Records computed by U. S. Geological Survey.

TABLE 136

TUOLUMNE RIVER AT LA GRANGE BRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug.	Sept.
1	5.7	544	467	8040	6720	2950	1650	1870	5890	3030	1340	282
2	3.6	546	467	8060	5190	2460	568	1850	5770	1200	2070	278
3	13	542	615	8220	4420	2470	656	1870	5380	297	2160	278
4	8.6	542	390	8200	4420	2440	668	3460	5120	220	1310	324
5	9.7	488	476	8420	4370	2390	662	5640	4770	196	821	552
6	11	242	484	8360	3690	2520	685	5910	4050	231	960	547
7	7.9	292	473	8340	3290	2590	679	5800	4400	127	1220	557
8	7.9	19	587	8280	2630	2590	690	5640	2350	12	606	536
9	7.9	8.6	582	8000	2090	2580	791	5460	806	12	340	470
10	7.2	7.9	576	7980	2080	2550	980	5610	256	12	343	432
11	8.6	7.2	576	7940	2070	2520	1150	5770	279	16	342	499
12	14	6.4	587	7860	2060	2290	1920	5750	285	16	345	523
13	19	6.4	592	4820	2010	2660	2360	4780	532	12	352	519
14	20	207	597	4770	2720	2180	2380	3640	1930	11	356	542
15	9.7	435	587	6390	3180	1420	2300	2480	2880	9.8	358	547
16	17	487	592	7340	3180	936	1460	1800	4640	9.2	354	508
17	224	458	1080	7880	3210	1200	1130	1810	3830	9.2	349	487
18	308	467	804	7810	3020	1470	929	2240	3000	8.6	392	522
19	277	411	752	7260	2040	1470	961	2120	3530	6.8	355	493
20	230	294	638	6820	2020	1520	996	2070	4190	7.4	330	496
21	258	415	689	5170	2070	1490	987	3140	5780	8.6	328	521
22	170	568	968	4590	2270	1330	1850	4010	5780	228	322	507
23	40	477	6730	5770	2350	747	2410	4500	4780	568	323	501
24	277	381	28200	6960	2390	334	2220	5610	3180	472	306	502
25	255	385	17700	7240	2390	300	1760	6040	3500	779	303	503
26	283	481	16400	7790	2380	345	2060	6030	3750	1480	295	498
27	254	317	18700	7810	2810	410	3140	6010	4090	2450	292	490
28	288	417	9110	7810	3210	382	3460	5920	5370	2730	280	499
29	180	437	8260	7750	3190	739	3530	4960	5910	2670	276	491
30	40	478	8160	7650		1710	2610	5120	4900	1840	282	393
31	272	—	8140	7610	—	1940	—	5850	—	953	279	—
Mean	114	344	4338	7331	3018	1708	1588	4282	3698	633	580	477
Ac-Ft	6993	20440	266 00	450100	173500	105000	94500	263300	220000	38920	35680	28370

Maximum Discharge	Water Year	34,600 c.f.s. December 24, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 410100
	Of Record			1955 - 56 Water Year 1704000

Department of Water Resources station located at Mile 50.5 above mouth. Period of record 1937 to date.

TABLE 137

TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	40	386	506	8290	7460	3160	1830	1840	6000	3760	1230	332
2	42	850	499	8290	5810	2570	590	1830	6000	1990	2280	337
3	38	659	506	8420	4720	2540	681	1850	5620	674	2380	336
4	34	652	561	8440	4690	2530	659	2760	5170	468	1660	338
5	42	596	480	8850	4660	2480	659	5330	4980	403	1060	623
6	40	448	538	8710	4150	2560	674	5810	4170	492	*737	630
7	40	302	492	8560	3500	2600	674	5780	4390	445	*1380	645
8	38	236	616	8540	3070	2580	666	5680	2950	106	*743	638
9	36	77	623	8180	2400	2570	674	5500	1270	71	*405	590
10	38	55	616	8200	2380	2540	931	5560	359	68	*360	501
11	40	45	610	8080	2370	2520	998	5730	364	68	*347	577
12	38	40	603	8020	2370	2290	1540	5750	376	71	*360	610
13	40	40	610	5420	2320	2590	2060	5050	413	68	*347	610
14	45	47	610	4850	2760	2270	2080	3660	1940	52	*339	610
15	47	447	610	6400	3460	1660	2020	2770	2620	52	345	616
16	50	540	603	7410	3460	1090	1470	1950	4600	55	350	590
17	63	533	791	8080	3460	1110	1120	1810	4290	58	347	570
18	386	514	913	8060	3440	1490	822	2230	2940	55	343	603
19	387	499	816	7630	2380	1490	891	2170	3760	52	421	590
20	345	363	709	7190	2310	1530	914	2080	3960	50	345	577
21	367	363	674	5680	2320	1500	939	2680	6220	45	339	603
22	316	512	814	4780	2450	1420	1340	3930	6310	45	330	596
23	182	525	4860	5730	2590	973	2200	4240	5600	616	329	584
24	195	480	27300	7320	2590	352	1960	5400	3550	603	329	577
25	377	352	19500	7500	2590	295	1790	6100	3570	674	336	577
26	360	392	15700	8200	2570	306	1480	6120	4230	1630	341	570
27	361	427	21200	8290	2830	409	3580	6120	4150	2340	341	577
28	353	427	10100	8270	2080	368	3530	6050	5680	2970	335	570
29	322	462	8350	8180	3300	544	3310	5330	6650	2960	334	570
30	182	497	8290	8100		1520	2730	4920	5760	2360	317	506
31	178	—	8290	8060	—	1790	—	5950	—	1100	331	—
Mean	162	392	4432	7604	3258	1731	1494	4257	3930	787	627	555
Ac-Ft	9961	23380	272500	467500	187400	106400	88880	261800	233800	48400	38560	33030

Maximum Discharge	Water Year Of Record	35,300 c.f.s. December 24, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year	435100
				1955 - 56 Water Year	1772000

Department of Water Resources station located at Mile 39.9 above mouth. Period of record 1930 to date.
* Estimated

TABLE 138

TUOLUMNE RIVER AT HICKMAN BRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	100	370	577	8010	7220	3420	2030	2080	5900	3870	1100	378
2	100	778	556	8050	5870	2780	809	2110	5890	2140	2120	378
3	98	650	558	8120	4780	2730	854	2110	5630	822	2220	378
4	96	645	631	8170	4770	2690	854	2580	5170	565	1680	383
5	96	613	524	8450	4760	2660	848	5250	5120	489	1090	643
6	98	536	613	8400	4410	2700	861	5820	4380	543	784	667
7	100	266	571	8250	3750	2730	854	5790	4450	548	1470	673
8	102	370	670	8220	3470	2720	854	5710	3330	237	790	673
9	102	148	685	7910	2640	2680	874	5510	1630	159	431	632
10	102	127	675	7940	2630	2660	1110	5560	643	146	383	537
11	102	114	675	7810	2640	2640	1150	5740	615	149	369	627
12	102	108	670	7740	2640	2440	1630	5750	610	142	383	649
13	104	110	680	5720	2600	2660	2250	5280	610	133	369	661
14	106	112	680	4950	2950	2470	2290	4020	1960	124	373	661
15	125	349	680	6110	3780	1850	2210	3090	2590	124	378	667
16	114	553	680	7040	3790	1250	1790	2180	4560	124	369	638
17	117	558	745	7720	3810	1190	1480	1980	4560	127	373	627
18	295	542	1050	7640	3800	1610	1180	2460	3170	130	373	655
19	395	558	884	7340	2840	1590	1250	2410	3860	127	442	655
20	372	436	810	6850	2620	1630	1200	2280	3820	124	383	632
21	336	426	740	5760	2620	1620	1170	2680	5830	130	373	649
22	355	548	844	4710	2730	1570	1390	4080	5940	136	369	649
23	259	584	4060	5320	2860	1190	2520	4310	5530	473	364	638
24	151	552	25300	6890	2880	571	2250	5240	3710	576	364	632
25	368	397	22300	7040	2850	510	2180	5960	3520	576	373	627
26	362	542	15200	7670	2840	479	1580	5970	4230	1410	373	627
27	380	496	22100	7780	2980	593	3760	5970	3950	2090	378	627
28	361	416	10600	7750	3510	565	3820	5930	5290	2730	378	627
29	386	523	8170	7720	3480	632	3560	5510	6040	2750	378	632
30	256	549	8040	7670		1550	3150	4810	5600	2400	378	599
31	148	—	8060	7640	—	1880	—	5860	—	1060	373	—
Mean	200	433	4485	7303	3535	1879	1725	4324	3938	811	644	604
Ac-Ft	12270	25740	275800	449000	203300	115600	102700	265800	234300	49890	39630	35940

Maximum Discharge	Water Year Of Record	35,400 c.f.s. December 24, 1955 59,000 c.f.s. December 8, 1950	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	479800 1810000

Department of Water Resources station located at Mile 31.7 above mouth.
Period of record 1932 to date.

TABLE 139

DRY CREEK NEAR MODESTO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	20	11	34	640	170	76	102	75	81	72	•70	69
2	19	11	37	333	147	83	111	50	75	66	•70	64
3	13	17	39	409	130	84	91	57	83	58	•70	62
4	25	18	39	233	115	89	94	93	79	64	•70	60
5	25	17	40	537	105	69	89	90	76	69	•70	58
6	28	19	46	2350	98	58	84	64	81	69	•70	62
7	27	21	65	498	93	55	102	57	81	66	•70	60
8	20	20	69	445	80	55	103	67	74	69	•70	55
9	27	22	68	457	74	57	122	85	81	76	•70	57
10	26	25	66	237	69	55	112	101	78	74	•70	55
11	29	27	66	222	63	52	126	125	69	77	•70	55
12	28	29	63	255	59	44	186	129	74	69	•70	55
13	26	31	57	164	55	40	140	116	72	74	•70	54
14	25	34	49	150	50	50	84	106	73	75	•70	50
15	25	35	50	1310	46	37	108	106	70	75	•70	53
16	22	39	50	2870	46	44	112	87	80	70	•70	48
17	23	41	50	700	47	47	105	70	87	64	77	46
18	27	42	52	313	46	51	107	69	87	•70	70	51
19	32	39	57	229	44	55	101	61	81	•70	72	55
20	29	31	60	209	46	69	109	71	72	•70	73	56
21	25	26	62	474	46	66	101	76	78	•70	76	58
22	22	26	73	338	43	60	92	81	69	•70	76	62
23	19	28	2840	1150	45	57	98	76	64	•70	73	58
24	21	31	7160	1740	80	62	87	77	60	•70	72	60
25	20	30	3980	597	188	60	80	75	63	•70	71	53
26	14	30	716	672	179	60	66	75	66	•70	78	54
27	22	30	2270	1280	278	67	87	67	61	•70	74	63
28	24	31	839	584	124	76	68	70	62	•70	70	59
29	22	32	328	341	92	87	83	70	69	•70	70	57
30	17	33	199	252		103	81	80	72	•70	75	60
31	13	—	256	202	—	103	—	75	—	•70	68	—
Mean	23.1	27.5	638	651	91.6	63.6	101	80.7	73.9	69.9	71.4	57.0
Ac-Ft	1418	1638	39230	40050	5272	3909	6012	4961	4399	4298	4393	3390

Maximum Discharge	Water Year Of Record	7,710 c.f.s. December 23, 1955.	Total Runoff in Acre - Feet	1955 - Calendar Year	80220
				1955 - 56 Water Year	119000

Department of Water Resources station located at Clauae Road bridge, Mile 5.4 above mouth. Dry Creek enters the Tuolumne River above the Modesto gaging station at Mile 16.5R above mouth. Period of record (including a station formerly located at Mile 2.9 above mouth) 1930 to date.

* Estimated

TABLE 140

TUOLUMNE RIVER AT MODESTO

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	215	374	710	8700	8080	3650	2200	2590	6160	4830	1150	620
2	230	630	720	8440	6920	3080	1480	2200	6150	2920	1790	630
3	215	742	710	8510	5440	2830	1080	2120	6100	1300	2210	600
4	215	731	784	8420	5120	2810	1080	2270	5460	859	2070	600
5	200	731	630	8610	5060	2720	1060	4830	5540	762	1510	650
6	215	680	710	10500	4950	2780	1060	6180	4900	690	1060	826
7	230	524	752	9110	4020	2850	1090	6250	4460	731	1500	826
8	215	497	773	8700	3820	2860	1080	6190	4310	610	1310	815
9	222	374	848	8650	2820	2830	1090	5930	2230	470	892	815
10	222	284	837	8190	2610	2810	1250	6000	1110	416	731	784
11	222	252	826	8040	2590	2790	1420	6180	870	408	650	752
12	230	238	815	8060	2540	2710	1890	6240	804	366	640	762
13	230	238	826	6940	2480	2630	2500	5980	794	376	640	794
14	230	245	815	5250	2550	2840	2670	4820	1390	357	610	794
15	238	292	804	6760	3580	2180	2670	3680	2220	376	600	815
16	260	591	804	9110	3710	1520	2500	2440	4080	340	610	826
17	252	680	804	8990	3730	1320	2000	2030	4940	332	591	794
18	300	680	1140	8310	3740	1760	1760	2280	3690	348	591	773
19	497	690	994	8050	3120	1790	1700	2410	3780	348	640	837
20	497	640	960	7440	2490	1810	1680	2270	3680	324	660	826
21	461	562	870	7070	2480	1780	1520	2300	5410	348	620	804
22	479	620	925	5440	2500	1760	1480	3910	6180	348	610	815
23	425	720	2770	5710	2750	1580	2410	4210	6140	416	600	815
24	348	710	17800	8520	2810	994	2280	5060	4470	742	610	794
25	382	630	31400	7680	2950	804	2220	6100	3610	731	600	794
26	470	610	18900	8340	2900	731	1820	6220	4280	1090	610	773
27	479	690	21000	9020	3070	784	3370	6230	3910	1790	630	794
28	479	572	17600	8720	3610	815	4360	6200	5120	2620	620	815
29	506	620	9760	8270	3630	859	3940	6170	6040	2850	620	794
30	425	670	8440	8100		1460	3800	4920	6270	2820	620	804
31	340	—	8300	8020	—	2000	—	5900	—	1520	620	—
Mean	320	551	4969	8154	3658	2069	2015	4520	4137	1046	878	771
Ac-Ft	19690	32[illegible]	305[illegible]	[illegible]	210400	127200	119900	277900	246100	64340	53980	45900

Maximum Discharge	Water Year Of Record	37,[illegible] c.f.s. December [illegible], 1955 57,000 c.f.s. December 9, 1950	Total Runoff in Acre - Feet	1955 - Calendar Year	614100
				1955 - 56 Water Year	1999000

Station is maintained jointly by Department of Water Resources and U. S. Geological Survey. It was moved from the Tidewater Southern Railroad bridge at Mile 15.92 to immediately above the U. S. Highway 99 bridge at Mile 16.05L on July 22, 1955. Period of record March 1940 to date. Records computed by U. S. Geological Survey.

TABLE 141

TUOLUMNE RIVER AT TUOLUMNE CITY

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	270	350	710	9760	8680	*3610	*2115	2155	5020	3400	1225	783
2	275	480	740	9430	7770	*3180	*1925	1870	5115	2410	1359	798
3	275	815	725	9160	6630	*3000	*1830	1850	5135	1650	1680	776
4	265	805	750	8920	6070	*2990	*1830	1915	4740	1230	1750	769
5	270	810	765	8800	5780	*2940	1230	2715	4585	1110	1415	780
6	270	790	740	10800	5495	*2970	1230	3975	4220	1025	1240	897
7	280	685	795	10150	4990	*2560	*1830	4460	3785	1020	1215	918
8	280	490	810	9040	4570	*2560	*1830	4855	3720	982	1330	911
9	280	495	915	8980	4050	*2550	*1830	4220	2565	866	1085	928
10	285	365	915	8315	3710	*2540	*1830	4195	1970	807	943	909
11	285	325	895	8105	3550	*2530	1355	4275	1710	787	875	851
12	290	315	880	8010	3120	*2930	1430	4330	1640	754	839	866
13	290	310	870	7365	3305	*2880	1865	4210	1640	739	834	875
14	285	315	870	5725	3230	*3000	2030	3470	1620	723	822	885
15	285	310	860	5945	3535	*2660	2050	2730	2110	739	816	897
16	295	455	855	8030	3730	*1935	2030	2145	2440	701	807	916
17	295	760	850	8920	3685	*1890	1775	1890	3220	679	802	904
18	290	720	1010	8175	3560	*1985	1665	1850	2720	677	802	880
19	385	725	1150	7960	3120	*1990	1570	1945	2495	670	807	902
20	490	725	1080	7565	3030	*1995	1555	1910	2550	684	608	916
21	500	620	1015	7310	2915	*1990	1470	1945	3195	657	809	906
22	485	580	990	6280	2855	*1985	1430	2460	3980	675	805	916
23	490	700	1550	5835	2900	*1945	1780	2885	4015	651	802	911
24	425	740	12800	7720	2920	*1800	1865	3330	3260	834	794	902
25	355	695	23600	7530	2980	*1765	1800	4100	2541	897	785	897
26	465	585	20700	7985	3015	*1745	1660	4265	2710	976	791	880
27	480	670	20000	8705	3095	*1760	1970	4850	2705	1355	802	887
28	505	650	19650	9040	3295	*1765	2770	4955	3025	1790	796	916
29	500	580	16150	8630	3440	*1780	2670	4220	3685	1950	791	902
30	510	655	7500	8680		*1920	2615	4385	4060	1970	791	890
31	425	—	7500	8730	=	*2050	—	4620	—	1655	787	—
Mean	357	584	4795	8245	4104	2361	1828	3332	3206	1131	967	879
Ac-Ft	21977	34750	294827	506975	236083	145190	108764	204258	190762	69546	59449	52300

Maximum Discharge	Water Year Of Record	Total Runoff in Acre-Feet	1955-Calendar Year	636500
			1955-56 Water Year	1925000

Station is maintained jointly by Department of Water Resources, City of San Francisco (Hetch Hetchy Water Supply), and Turlock Irrigation District. It is located at highway bridge, Mile 3.35 above mouth. Tuolumne River is an east-side tributary to the San Joaquin River at Mile 91.0R above mouth. Period of record 1930 to date. Records computed by City of San Francisco.

* Estimated

TABLE 142

SAN JOAQUIN RIVER AT HETCH HETCHY CROSSING

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	520	595	930	28100	26200	10550	*3370	6530	14290	8060	1960	1405
2	550	630	955	27200	25050	10460	*3510	5855	14650	6580	1815	1460
3	590	845	945	29360	22660	10150	*3500	6320	14620	4800	2490	1485
4	550	910	940	23210	20080	9900	*2520	7000	14300	3560	2580	1430
5	525	920	995	22520	17860	9520	*2480	7930	13880	3020	2340	1430
6	520	920	950	22410	16480	9040	*2360	10650	13620	2670	2140	1480
7	515	860	995	22610	15470	8500	*2330	12320	12600	2500	1910	1590
8	520	715	1030	22750	14480	*7980	2350	12500	11750	2340	2120	1585
9	530	710	*1140	22240	13620	*7510	2420	12080	11840	2200	1800	1660
10	570	620	*1060	20940	12900	*7110	2440	11240	8860	2065	1585	1685
11	570	570	*1130	19770	12100	*6850	2720	10820	8100	1930	1510	1615
12	570	540	*1020	18520	11500	*6630	*3600	10650	7930	1815	1485	1560
13	540	535	*1060	17310	11170	*6320	*4480	10230	7880	1725	1530	1590
14	550	570	*1150	16270	10930	*6270	*5040	9500	7810	1690	1960	1660
15	570	590	*1050	15350	11020	*5900	*5330	8060	8150	1660	1440	1670
16	640	650	*1000	16110	11290	*5100	*5430	6960	8250	1685	1430	1685
17	660	840	*1050	18520	*11270	*4240	*5110	6540	8180	1615	1460	1745
18	615	920	*1120	20500	*11240	*3760	*4710	6260	7420	1500	1460	1640
19	625	940	*1300	20500	*11120	*3780	*4280	6285	6445	1420	1450	1615
20	725	950	*1200	20480	*10600	*3630	*3970	6510	6670	1385	1495	1270
21	750	910	*1110	20060	*10000	*3540	3610	7130	7270	1375	1505	1735
22	725	850	*1105	19050	9930	*3430	*3600	7790	7480	1355	1520	1825
23	730	905	*2300	17200	9840	*3300	*3870	9100	8650	1315	1480	1870
24	680	955	*12800	17230	9870	2910	4450	10630	8030	1350	1465	1860
25	620	940	*23600	18750	9930	2460	4620	12610	6650	1450	1455	1815
26	620	885	*20800	19430	9990	2280	4730	13880	6385	1425	1440	1720
27	705	900	*19600	20970	10120	2220	5250	14230	6510	1740	1470	1675
28	710	925	*26000	23470	10300	2250	6780	14510	6250	2280	1465	1730
29	715	855	*28400	24500	10500	2200	7130	14800	7270	2760	1450	1740
30	720	920	*21100	25320		2260	7120	14290	8180	2960	1440	1685
31	670	—	*21100	26770	=	2850	—	13810	—	2690	1425	—
Mean	616	796	6417	21191	13840	5577	4104	9904	9331	2417	1680	1631
Ac-Ft	37884	47356	394582	1302982	768635	342942	244185	608965	555213	148602	103289	97021

Maximum Discharge	Water Year Of Record	Total Runoff in Acre-Feet	1955-Calendar Year	974600
			1955-56 Water Year	4652000

Station is maintained jointly by City of San Francisco (Hetch Hetchy Water Supply) and Department of Water Resources. It is located at Mile 82.65 above mouth and 2.9 miles above the confluence of the Stanislaus River. Period of record 1936 to date. Records computed by the City of San Francisco.

* Estimated

TABLF 143

STANISLAUS RIVER BELOW MELONES POWERHOUSE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	286	94	97	3000	2920	1580	2950	3970	7770	2710	1110	1210
2	286	95	311	2500	2630	1560	2500	4480	6370	2360	1230	1230
3	292	84	403	2300	2450	1570	2220	5110	6600	2140	1260	1220
4	286	38	259	2200	2290	1570	2000	9630	7130	1960	1260	1230
5	286	15	57	2900	2200	1570	2000	8280	5870	1870	1260	1230
6	237	106	352	3700	2070	1570	2180	6170	5140	1820	1250	1220
7	207	61	484	3700	1950	1570	2560	5640	4870	1770	1260	1210
8	177	84	720	3500	1860	1560	2950	4980	5940	1750	1260	1240
9	172	84	720	3400	1770	1560	3290	4720	5500	1770	1320	1230
10	51	85	494	3020	1710	1560	4020	4760	5720	1780	755	1220
11	15	84	730	1880	1670	1560	3750	4280	5920	1730	1490	1220
12	130	85	725	1570	1650	1560	3190	3980	5430	1630	1520	1210
13	104	85	278	1570	1620	1560	2670	3570	4980	1400	1500	960
14	140	129	393	1570	1590	1560	2460	3200	4210	1160	1490	695
15	104	178	420	4670	1570	1550	2270	3370	4100	1100	1500	670
16	106	156	203	12400	1570	1550	2180	4150	3910	1230	1530	670
17	106	126	234	7010	1560	1550	2260	5090	3600	1340	1530	665
18	104	155	471	5000	1560	1550	2410	5450	3480	1450	1520	780
19	126	176	705	3920	1550	1560	2610	5770	3720	1490	1510	934
20	127	178	740	3640	1550	1560	3150	6100	3970	1480	1500	934
21	103	179	750	3720	1550	1570	3910	7450	3780	1480	1490	828
22	101	127	2450	3540	1550	1570	4210	9350	3670	1480	1490	750
23	97	250	45000	7880	1560	1570	4880	10600	2540	1090	1490	750
24	90	271	20000	5920	1580	1610	5440	10400	2090	625	1480	745
25	59	203	5000	5840	1580	2390	5980	9040	2100	831	1470	740
26	82	176	14000	7010	1590	3090	5750	8430	2130	1350	1460	735
27	82	83	12000	8100	1600	3060	4930	8500	2360	1540	1450	735
28	94	130	8000	5580	1580	2830	4120	7310	3130	1210	1330	735
29	105	131	4500	4390	1580	2800	3740	6510	2770	1020	1300	730
30	94	228	4200	3750		3020	3720	6730	2030	1030	1300	725
31	99	—	3500	3320	—	3160	—	7390	—	1090	1230	—
Mean	140	129	4135	4274	1790	1868	3343	6271	4361	1506	1372	948
Ac-Ft	8620	7690	254300	262800	103000	114800	198900	385600	259500	92600	84390	56430

Maximum Discharge	Water Year 62,800 c.f.s. December 23, 1955 Of Record 62,800 c.f.s. December 23, 1955	Total Runoff in Acre – Feet	1955 - Calendar Year 882900 1955 - 56 Water Year 1829000

U. S. Geological Survey and Pacific Gas and Electric Company cooperative station located one mile below Melones Dam. Drainage area is 898 square miles. Period of record January 1931 to date. Records computed by U. S. Geological Survey.

TABLE 144

STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	21	78	228	•3900	•3330	1670	1700	•3150	•5420	1310	36	32
2	30	76	103	•3500	•3090	1660	1390	•3260	•4890	1620	33	26
3	34	98	385	•3180	•2850	1660	1030	•3870	•4960	1770	36	26
4	31	127	524	•2940	•2530	1650	782	•7030	•5330	1570	37	26
5	28	161	100	•4420	•2150	1650	656	•8400	•4670	1460	37	26
6	26	139	410	•4380	•1810	1660	718	•5350	•3820	1330	34	28
7	28	103	527	•4080	•1660	1640	943	•4790	•3490	1340	34	29
8	30	83	786	•3800	•1390	1640	1420	•4820	•3930	1310	37	30
9	25	59	856	•3670	1240	1640	1760	•4130	•3890	1290	33	32
10	23	89	533	•3570	1100	1640	•2340	•3910	•4220	1340	32	33
11	13	89	734	•2910	1000	1640	2850	•3380	•4430	1350	33	25
12	13	106	717	•1890	988	1640	2890	•3130	•4120	1240	36	28
13	10	139	380	•1770	1230	1640	2370	•2670	•3720	1140	40	29
14	47	180	336	•2140	1520	1360	2110	•2250	•3090	828	40	29
15	297	177	364	•4010	1660	1180	1930	•2140	•2650	631	40	22
16	286	529	304	•12600	1650	978	1750	•2720	•2250	292	[illegible]	19
17	120	483	174	•8180	1640	458	1720	•3540	•1880	•210	40	18
18	[illegible]	48	[illegible]	•5600	1640	298	1630	•3850	•2030	•170	42	18
19	[illegible]	[illegible]	533	•4310	1630	266	1600	•4140	•2160	•140	45	20
20	[illegible]	11	[illegible]	•3900	1640	243	1890	•4490	•2560	•130	43	30
21	[illegible]	10	825	•3990	1620	203	2540	•5400	•2340	•110	42	25
22	[illegible]	11	3350	•3840	1620	178	2950	•7150	2110	•102	40	24
23	[illegible]	13	[illegible]	•7540	2060	133	3420	•8450	1570	•88	42	22
24	[illegible]	304	[illegible]	•6860	1820	117	4110	•8250	652	[illegible]	37	19
25	[illegible]	[illegible]	12500	•5120	1780	497	5000	•7240	622	[illegible]	38	18
26	81	194	[illegible]	[illegible]	1990	1450	•5300	•6640	614	585	[illegible]	21
27	[illegible]	[illegible]	[illegible]	•9100	1750	1620	•4960	•6630	618	1070	40	20
28	[illegible]	[illegible]	[illegible]	•5590	1700	1400	•3700	•5820	1490	897	40	24
29	[illegible]	[illegible]	[illegible]	[illegible]	1690	1280	•3310	•5070	2330	252	42	22
30	[illegible]	[illegible]	[illegible]	•4140		1470	•3230	•5100	2050	[illegible]	[illegible]	22
31	[illegible]	—	[illegible]	[illegible]	—	1660	—	•5930	—	[illegible]	34	—
Mean	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1168	2400	4926	2930	[illegible]	[illegible]	24.8
Ac-Ft	[illegible]	[illegible]	[illegible]	[illegible]	102700	[illegible]	[illegible]	302900	174400	[illegible]	2328	1474

Maximum Discharge	Water Year Of Record [illegible],000 c.f.s. N[illegible]vember [illegible]1, 19[illegible]	Total Runoff in Acre – Feet	1955 - Calendar Year 455400 1955 - 56 Water Year [illegible]

Department [illegible]f Water Re[illegible]sources station located at highway bridge, Mile 47.0 above mouth and 5.7 miles above Oakdale. Peri[illegible]d of re[illegible]rd 19[illegible] t[illegible] date.

• Estimated

TABLE 145

STANISLAUS RIVER AT RIVERBANK

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	67	83	209	4110	3430	1710	1660	2880	5910	1680	130	61
2	66	83	154	3800	3250	1700	*1760	2920	5130	1530	110	60
3	66	81	272	3520	3050	1700	*1580	3350	5060	1850	107	54
4	68	101	438	3240	2770	1680	*1390	5640	5450	1690	107	59
5	66	102	234	3890	*2120	1680	*1130	9220	5150	1600	113	53
6	71	98	135	4840	*1820	1680	*976	5940	3950	1490	111	51
7	68	94	569	4440	*1580	1660	1060	4890	3410	1400	108	54
8	71	86	570	4010	*1560	1660	1420	4870	3450	1390	107	53
9	67	83	778	3720	*1460	1660	1720	4140	3790	1390	103	59
10	68	81	646	3620	*1370	1660	2110	3860	4220	1370	98	62
11	70	83	609	3150	*1280	1660	2750	3320	4470	1390	96	97
12	65	81	705	2630	*1220	1650	3040	*2930	4290	1320	93	87
13	66	81	606	2520	1380	1640	2560	*2480	3760	1250	92	87
14	62	86	344	2510	1580	1500	2330	*2160	3100	998	90	90
15	74	83	406	3270	1730	*1360	2230	*1990	2640	*803	89	90
16	93	84	429	10000	1720	*1250	2070	*2390	*2530	*550	87	83
17	96	94	253	8740	1720	1140	1950	3200	*2080	*299	87	82
18	88	83	196	5950	1700	1120	1910	3730	*1940	*253	87	77
19	84	68	356	4610	1700	1100	1890	3990	*2020	*229	84	83
20	81	60	722	3940	1700	1100	1940	4400	*2120	*209	82	87
21	78	56	885	3900	1690	1050	2300	5120	*2230	*188	79	87
22	79	52	1690	3700	1680	970	2720	7090	*2180	*169	76	83
23	90	51	22800	5770	1960	896	3010	8850	*2000	*152	73	83
24	89	143	56600	6940	1850	817	3810	9210	*855	*135	72	79
25	88	261	14500	5710	1760	828	4790	8320	*783	*152	76	71
26	85	213	8860	6600	1990	1300	5050	7320	767	*366	68	76
27	84	198	12500	8270	1780	1610	4720	7210	764	967	68	76
28	81	128	8490	6580	1740	1460	3520	6580	1220	1060	72	74
29	81	130	5610	5120	1730	1330	3130	5380	2040	538	72	72
30	79	144	4860	4280		1420	2940	5340	2290	268	70	77
31	80	—	5020	3760	—	1560	—	6080	—	175	66	—
Mean	76.5	102	4853	4746	1873	1405	2449	4993	2987	866	89.4	73.6
Ac-Ft	4703	6091	298400	291800	107700	86380	145700	307000	177700	53280	5500	4378

Maximum Discharge	Water Year Of Record	85,800 c.f.s. December 23, 1955 85,800 c.f.s. December 23, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 513400 1955 - 56 Water Year 1489000

Department of Water Resources atation located at Mile 33.6 above mouth. Period of record 1940 to date.
* Estimated

TABLE 146

STANISLAUS RIVER AT RIPON

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	134	132	228	4910	3980	1790	1900	3230	5850	2000	290	181
2	144	138	288	4030	3510	1770	1860	3100	5400	1540	249	174
3	122	139	245	3720	3190	1760	1540	3330	5060	1930	233	176
4	113	144	374	3290	2940	1750	1250	4000	5060	1850	222	170
5	115	160	472	3180	2470	1720	999	7800	5360	1730	244	176
6	121	164	288	4690	2230	1710	918	8660	4660	1670	240	179
7	111	160	484	4910	2080	1700	937	5800	3880	1550	222	201
8	108	150	562	4560	1900	1690	1240	5160	3580	1530	228	210
9	113	136	776	4140	1700	1700	1660	4920	3700	1530	213	183
10	113	133	849	3880	1580	1690	1940	4380	4020	1480	172	204
11	122	132	626	3550	1450	1690	2520	4060	4260	1470	188	170
12	127	136	740	2560	1370	1700	2980	3580	4380	1450	206	177
13	122	151	750	2240	1410	1700	2890	3120	4060	1390	190	167
14	130	164	540	2210	1580	1640	2610	2720	3550	1230	154	161
15	132	164	464	2940	1780	1460	2500	2370	2910	1030	159	179
16	163	157	478	6270	1830	1310	2350	2410	2760	862	168	188
17	203	158	440	11800	1820	1010	2170	2960	2180	598	190	172
18	158	163	348	8290	1800	740	2080	3560	2170	477	195	158
19	146	151	319	6080	1790	649	2000	3800	2180	394	203	192
20	142	138	527	4960	1790	611	1890	4090	2390	352	185	217
21	140	127	784	4540	1780	554	2150	4420	2490	328	179	199
22	134	122	897	4270	1770	473	2650	5260	2350	310	167	190
23	144	122	3060	4400	1880	418	2890	7080	2240	310	154	192
24	148	121	47000	7600	2090	352	3390	9750	1500	266	156	176
25	140	209	22800	6870	1910	332	4000	9810	1180	249	195	177
26	139	294	5670	6690	2010	738	4690	7790	1110	266	195	163
27	138	288	17500	8060	1930	1560	5060	7000	1080	692	190	165
28	157	265	13400	8810	1830	1640	4480	6870	1200	1070	158	170
29	145	201	7540	6540	1790	1490	3660	5840	1800	894	168	154
30	139	206	5450	5460		1490	3370	5230	2360	528	161	179
31	134	—	5120	4600	—	1670	—	5330	—	372	181	—
Mean	135	164	4484	5163	2041	1307	2486	5078	3157	1011	195	180
Ac-Ft	8320	9770	275700	317500	117400	80340	147900	312300	187900	62180	12010	10710

Maximum Discharge	Water Year Of Record	62,500 c.f.s. December 24, 1955 62,500 c.f.s. December 24, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 543400 1955 - 56 Water Year 1542000

Station is maintained jointly by Department of Water Resources and U. S. Geological Survey. It is located at railroad bridge, one mile southeast of Ripon, Mile 15.7L above mouth. Period of record 1940 to date. Records computed by U. S. Geological Survey.

TABLE 147

STANISLAUS RIVER NEAR MOUTH

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	106	130	243	*4600	*3000	*1900	*1800	*3250	*5400	*1800	225	164
2	157	130	272	*4500	*2850	*1900	*1800	*2830	*5400	*1350	223	180
3	89	130	277	*4100	*2650	*1890	*1500	*3100	*5200	*1630	227	182
4	74	144	306	*3500	*2500	*1840	*1390	*3600	*5000	*1600	242	187
5	73	*153	428	*3400	*2340	*1800	*1100	*5300	*5000	*1540	236	182
6	65	*151	387	*3850	*2200	*1750	*920	*7000	*4500	*1500	242	182
7	92	*153	321	*4300	*2080	*1740	*1000	*6273	*3850	*1450	223	178
8	105	*155	549	*3700	*1920	*1740	*1100	*5840	*3550	*1450	189	182
9	137	*157	628	*3145	*1810	*1720	*1500	*5300	*3700	*1400	197	193
10	130	*158	787	*3000	*1700	*1700	*1800	*4600	*4000	*1350	164	195
11	155	*162	680	*2830	*1580	*1690	*2300	*4100	*4100	*1300	161	187
12	151	*164	662	*2700	*1500	*1670	*3200	*3550	*4150	*1270	203	195
13	122	*166	715	*2500	*1540	*1630	*3200	*3100	*3700	*1200	206	216
14	99	*166	628	*2490	*1680	*1590	*3040	*2760	*3100	*990	142	201
15	146	*167	480	*2700	*1800	*1520	*2960	*2400	*2700	*850	148	220
16	149	*169	474	*4950	*1890	*1400	*2830	*2320	*2500	*690	178	231
17	176	*171	480	*8800	*1930	*1080	2620	*2750	*2000	*490	172	195
18	173	175	389	*5520	*2020	*780	2450	*3200	*1900	*375	182	191
19	137	176	331	*5030	*2090	*640	2230	*3400	*1900	*320	210	201
20	137	167	395	*4850	*2020	*610	2000	*3700	*1950	*290	214	229
21	139	157	634	*4600	*1940	*532	2070	*4000	*2100	*270	189	238
22	148	149	773	*4450	*1940	*475	2480	*4500	*2120	*260	187	220
23	151	146	*4800	*4600	*2020	*415	2760	*5800	*2100	*250	163	231
24	113	144	*50000	*6300	*2300	*350	3190	*7800	*1300	*227	155	256
25	132	158	*21000	*5900	*2100	*330	3740	*8600	*1000	206	153	260
26	106	256	*8300	*5800	*2120	*560	4360	*7900	*950	174	189	253
27	100	287	*16000	*6500	*2050	*1240	*4600	*7200	*861	327	193	234
28	100	287	*14000	*7100	*2000	*1500	*4600	*7000	*830	819	155	229
29	116	263	*8200	*4700	*1900	*1420	*4090	*6400	*1450	958	135	251
30	113	234	*4750	*3200		*1350	*3610	*5600	*1800	663	127	251
31	129	—	*5000	*3050	—	*1500	—	*5400	—	427	146	—
Mean	123	174	4609	4408	2051	1299	2541	4793	2937	885	186	210
Ac-Ft	7577	10360	283400	271100	117960	79860	151200	294700	174800	54400	11460	12520

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 527200 1955 - 56 Water Year 1469000

Department of Water Resources station located at Mile 1.9R above mouth. Stanislaus River is an east-side tributary to the San Joaquin River at Mile 79.7R above mouth. Period of record September 1951 to date.
(Prior records available at other sites for 1930 to 1950.)
* Estimated

TABLE 148

SAN JOAQUIN RIVER NEAR VERNALIS

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb	March	April	May	June	July	Aug.	Sept.
1	635	795	1320	34000	31300	13700	5080	9510	19100	10200	2470	1530
2	702	800	1400	32900	30400	13600	5380	8650	19600	8570	2240	1620
3	718	1040	1420	31400	28500	13200	4480	8970	19400	6770	2770	1640
4	660	1180	1420	29700	26100	12800	4020	9960	19000	5580	3030	1590
5	615	1210	1560	28200	24000	12300	3800	11400	18600	4870	2830	1590
6	635	1230	1490	27700	22000	11800	3570	15700	18400	4380	2590	1650
7	650	1160	1420	28600	20300	11200	3510	17800	17000	4140	2240	1800
8	660	970	1640	28600	18900	10500	3600	17400	15600	4020	2470	1790
9	685	928	1780	27900	17800	9850	3950	17000	14300	3780	2160	1920
10	724	834	1970	27000	16600	9300	4170	15900	12500	3560	1830	1940
11	762	718	1910	25800	15700	8970	4750	15100	11500	3400	1700	1810
12	773	696	1800	24400	15100	8750	5880	14600	11400	3240	1710	1730
13	718	729	1900	23000	14600	8410	6870	13900	11200	3060	1810	1810
14	685	773	1850	21500	14400	8290	7440	12700	10900	2990	1670	1880
15	756	812	1660	20200	14400	7860	7700	10800	10900	2780	1600	1900
16	839	874	1610	21000	14800	6940	7740	9280	10700	2650	1600	1940
17	928	1090	1580	24400	14900	5960	7350	9000	10500	2400	1600	1990
18	85[illegible]	1210	1510	27600	14800	5220	6850	9090	9490	2040	1600	1860
19	822	1270	1740	27600	14700	5100	6300	9270	8480	1830	1630	1860
20	940	1270	1 20	27000	14000	4930	5900	9610	8680	1740	1700	2000
21	994	1210	1920	2[illegible]300	13300	4720	5600	10400	9270	1740	1690	2040
22	994	1130	2040	25400	12900	4520	5730	11200	10700	1680	1680	2130
23	994	1190	3210	23900	12800	4350	6140	13200	10900	1570	1610	2200
24	[illegible]2	1260	15500	[illegible]600	12900	3940	7040	16000	10100	1560	1600	2230
25	839	1260	40400	25200	12900	3420	7590	18700	8060	1680	1590	2160
26	822	1[illegible]	47400	25700	12900	3180	8060	19900	7540	1680	1620	2000
27	874	1[illegible]	49500	27000	13200	3560	8640	19900	7680	2050	1660	1930
28	892	1[illegible]	4[illegible]300	[illegible]400	13300	3830	10200	20100	7350	3060	1620	2000
29	[illegible]2	1270	4[illegible]900	30800	13600	3740	10400	20200	8570	3810	1570	2040
30	[illegible]22	1[illegible]	[illegible]600	31000		3730	10100	19400	10100	3810	1530	1970
31	874	—	[illegible]20	31400	—	4400	—	18600	—	3430	1540	—
Mean	[illegible]90	1[illegible]71	1[illegible]91	[illegible]7050	17280	7486	6261	13980	12250	3483	1902	1885
Ac-Ft	49150	[illegible]3710	[illegible]7[illegible]6	[illegible]6[illegible]3000	993900	46[illegible]300	372600	859300	729000	214200	116900	112200

Maximum Discharge	Water Year 60,900 c.f.s. December 25, 195[illegible] Of Record [illegible],000 c.f.s. December 9, 1950	Total Runoff in Acre - Feet	1955 - Calendar Year 1500000 1955 - 56 Water Year 6305000

Station is maintained jointly by Department of Water Resources and U. S. Geological Survey. It is located above the Durham Ferry bridge, three miles below the confluence of the Stanislaus River, Mile 76.7L above mouth. Drainage area is approximately 14,010 square miles. Period of record July 1922 to date. Records computed by U. S. Geological Survey.

TABLE 149

TEMPO CREEK NEAR MANTECA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	4.3	1.0	0	60	17	0.9						
2	4.7	6.0	1.5	44	12	0.6						
3	12	7.4	1.2	36	9.2	0.4						
4	11	4.9	*0	30	7.6	0.4						
5	12	5.5	*0.2	57	5.8	0.1						
6	12	7.9	*5.5	142	4.6	0						
7	9.3	2.1	24	163	3.6							
8	8.4	0.2	41	128	2.9							
9	9.0	4.9	49	102	2.7							
10	9.0	3.4	56	63	2.2							
11	4.5	6.8	36	52	1.8							
12	2.7	6.3	16	45	1.4							
13	2.1	6.0	7.4	32	1.1							
14	0	14	3.4	55	0.7							
15	2.7	19	1.3	179	0.5							
16	3.9	16	0.4	245	0.8							
17	1.3	14	0.4	261	1.0							
18	1.6	9.7	0.6	237	0.6							
19	1.8	7.4	0.4	130	0.3							
20	5.8	7.2	0	91	0							
21	3.8	5.8	0	122	0							
22	5.0	2.4	7.1	113	0							
23	7.6	1.3	194	95	0							
24	7.6	0.9	278	84	1.3							
25	7.2	0.6	287	73	7.1							
26	3.9	1.4	289	113	3.9							
27	4.2	1.2	280	155	2.2							
28	3.5	0.7	270	127	1.7							
29	2.1	0.6	231	69	1.5							
30	0.7	0	143	37								
31	1.3	—	87	24	—		—		—			—
Mean	5.3	5.5	74.5	102	3.2							
Ac-Ft	327	326	4583	6276	185							

Maximum Discharge	Water Year Of Record	293 c.f.s. December 26, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	9463

Department of Water Resources station located 5.5 miles northeast of Manteca at Jack Tone Road bridge. Tempo Creek is an east-side tributary, via Lone Tree Creek and French Camp Slough, to the San Joaquin River at Mile 46.1R above mouth. Period of record 1950 to March 1956 when station was discontinued.

* Estimated

TABLE 150

LONE TREE CREEK NEAR MANTECA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	5.1	2.1	0.2	115	18	1.1						
2	5.6	3.3	0.7	84	10	0.7						
3	11	6.2	4.4	61	6.9	0.5						
4	12	3.0	4.3	40	5.1	0.4						
5	14	3.5	2.5	69	4.4	0.4						
6	14	5.4	4.6	211	3.4							
7	11	1.4	47	237	2.3							
8	9.8	0.3	87	178	1.8							
9	11	1.4	94	156	1.6							
10	11	1.6	125	107	1.4							
11	6.4	3.0	85	89	1.2							
12	4.9	3.2	36	84	1.1							
13	4.3	3.0	16	48	1.0							
14	3.2	12	*9.6	68	0.6							
15	4.0	20	*6.9	256	0.6							
16	6.1	19	*5.9	352	0.4							
17	3.3	12	*5.1	383	0.9							
18	2.9	4.9	*4.3	368	0.6							
19	3.4	3.4	*3.5	192	0.5							
20	6.4	3.2	*2.9	148	0.7							
21	5.6	2.5	2.6	209	0.6							
22	6.2	1.0	3.0	179	0.4							
23	12	0.4	167	158	0.5							
24	11	0.3	286	154	1.5							
25	9.2	0.1	332	135	10							
26	5.6	0.2	368	180	4.9							
27	4.4	0.5	365	222	2.6							
28	4.1	*0.4	358	171	2.0							
29	3.2	*0.3	304	116	1.7							
30	2.0	0.2	176	62								
31	1.4	—	132	34	—		—		—			—
Mean	6.9	3.9	98.0	157	3							
Ac-Ft	425	234	6027	9652	172							

Maximum Discharge	Water Year Of Record	386 c.f.s. December 26, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	14910

Department of Water Resources station located four miles north and two miles east of Manteca at Austin Road bridge. Lone Tree Creek is an east-side tributary, via French Camp Slough, to the San Joaquin River at Mile 46.1R above mouth. Period of record 1950 to March 1956 when station was discontinued.

* Estimated

TABLE 151

DUCK CREEK DIVERSION NEAR FARMINGTON

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			C	0								
2			0	10								
3			0	0								
4			0	0								
5			0	342								
6			0	44								
7			0	106								
8			0	106								
9			0	0								
10			0	21								
11			0	23								
12			0	0								
13	N	N	0	0	N	N	N	N	N	N	N	N
14	O	O	0	434	O	O	O	O	O	O	O	O
15			0	527								
16			0	161								
17	F	F	0	0	F	F	F	F	F	F	F	F
18	L	L	0	0	L	L	L	L	L	L	L	L
19	O	O	0	0	O	O	O	O	O	O	O	O
20	W	W	0	142	W	W	W	W	W	W	W	W
21			0	37								
22			212	154								
23			1494	174								
24			534	0								
25			18	86								
26			204	595								
27			86	70								
28			0	0								
29			0	0								
30			0	0								
31		—	26	0	—		—		—			—
Mean	0	0	83	98	0	0	0	0	0	0	0	0
Ac-Ft	0	0	5106	6014	0	0	0	0	0	0	0	0

Maximum Discharge		Total Runoff in Acre-Feet	
Water Year	2,440 c.f.s. December 23, 1955	1955-Calendar Year	7969
Of Record	2,440 c.f.s. December 23, 1955	1955-56 Water Year	11120

U. S. Corps of Engineers station located approximately one mile northeast of Farmington. The flows recorded by this station are diversions from Duck Creek to Littlejohns Creek. Drainage area is 28 square miles. Period of record September 1951 to date.

TABLE 152

LITTLEJOHNS CREEK AT FARMINGTON

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1		0	3.0	1560	174	86	1.0	32				
2		0	2.0	1520	147	73	1.0	24				
3		2.0	2.0	1469	125	65	1.0	24				
4		19	2.0	1401	110	58	1.0	26				
5		34	2.0	1422	99	51	1.0	19				
6		38	2.0	1409	88	46	1.0	15				
7		31	14	1423	79	42	1.0	13				
8		22	9.0	1464	72	38	1.0	12				
9		11	34	1432	66	34	1.0	13				
10		7.0	45	1494	61	32	1.0	16				
11		7.0	44	1281	57	31	1.0	17				
12		7.0	48	498	53	27	1.0	18				
13	N	8.0	44	263	50	25	1.0	16	N	N	N	N
14	O	18	39	794	46	24	46	12	O	O	O	O
15		10	32	1407	42	23	61	11				
16		8.0	22	1268	38	61	87	9.0				
17	F	10	17	1458	36	45	118	8.0	F	F	F	F
18	L	14	14	1413	34	30	104	6.0	L	L	L	L
19	O	13	12	1353	32	24	38	5.0	O	O	O	O
20	W	10	10	1457	31	21	16	4.0	W	W	W	W
21		8.0	8.0	1046	30	20	5.0	3.0				
22		6.0	481	738	30	19	4.0	2.0				
23		5.0	2050	994	96	16	5.0	2.0				
24		4.0	1102	1097	241	14	7.0	1.0				
25		3.0	1805	894	170	12	8.0	2.0				
26		3.0	1984	1293	154	11	5.0	2.0				
27		[illegible]	1824	1195	164	12	10	0				
28		2.0	1347	1174	120	12	31	1.0				
29		1.0	1819	874	98	8.0	67	1.0				
30		1.0	1735	293		9.0	53	2.0				
31		—	1648	217	—	9.0	—	4.0	—			—
Mean	[illegible]	1	[illegible]23	1148	88	32	23	10	0	0	0	0
Ac-Ft	[illegible]	[illegible]	3[illegible]	[illegible]0[illegible]	5[illegible]4	194[illegible]	1345	[illegible]35	0	0	0	0

Maximum Discharge		Total Runoff in Acre-Feet	
Water Year	[illegible].74 [illegible].f.s. December 23, 1955	1955-Calendar Year	66260
Of Record	[illegible].74 [illegible].f.s. December 23, 1955	1955-56 Water Year	1123000

U. S. Corps of Engineers station located approximately 30[illegible] feet below Farmington-Eecalon highway bridge. The flows recorded by this station include flows entering Littlejohns Creek via the Duck Creek Diversion (Table 151). Period of record June 1952 to date. (Prior records available from 1945 to June 1952 at a site approximately one mile upstream. They do not include flow of Duck Creek Diversion.)

TABLE 153

FRENCH CAMP SLOUGH NEAR FRENCH CAMP

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	0	1.1	0.4	1380	231	90	61	81	17	32	*0.1	9.9
2	0	0.4	1.6	1340	180	78	51	57	23	41	1.6	9.0
3	0	0.8	1.9	1290	150	68	51	57	20	35	*0.1	5.7
4	0.3	3.5	5.0	1240	127	57	47	77	4.2	32	*0.1	3.3
5	0.6	2.2	2.5	1290	112	52	45	92	3.9	9.8	*0.1	2.5
6	9.2	2.7	2.2	1340	98	45	53	75	15	7.9	*0.1	6.7
7	5.3	2.2	25	1380	83	40	68	65	25	3.8	*0.1	9.0
8	6.3	7.5	76	1400	77	38	60	73	33	5.0	2.2	9.9
9	6.6	3.8	74	1300	69	34	58	58	40	4.4	3.0	10
10	4.8	8.0	91	1340	62	33	67	37	23	3.6	2.6	9.9
11	4.5	5.4	73	1240	57	31	78	27	23	5.1	2.0	6.2
12	1.4	5.2	44	775	54	30	130	38	12	2.9	1.8	8.5
13	1.0	5.0	18	338	52	25	155	48	5.3	1.5	0	1.1
14	0.2	8.0	12	577	48	23	105	43	30	0.8	0	8.0
15	0.1	15	9.8	1390	45	23	155	23	36	2.1	2.1	11
16	2.7	21	7.2	1460	43	38	134	17	*26	3.8	0	11
17	1.8	14	6.2	1600	40	61	172	25	*24	3.7	0	9.9
18	0	8.8	3.9	1580	38	44	173	38	*23	1.7	0	14
19	0.9	6.3	3.6	1440	38	40	133	34	*21	2.0	0	21
20	7.0	6.3	2.8	1370	36	40	105	31	17	7.1	0	41
21	8.4	7.0	2.2	1220	33	38	61	25	13	8.4	3.2	32
22	6.6	4.4	12	943	33	38	65	24	21	10	4.6	24
23	8.8	3.0	1390	1030	39	29	75	40	23	3.9	1.2	12
24	9.7	2.2	1320	1260	218	25	52	33	27	3.0	0.6	4.3
25	5.8	1.6	1560	912	216	48	57	27	31	4.6	0	6.7
26	0.6	1.6	1880	1390	157	53	66	20	25	2.9	0	8.8
27	1.8	1.1	1900	1360	183	44	118	25	15	3.9	2.8	8.8
28	2.5	0.8	1550	1290	135	51	121	22	23	*1.0	6.5	8.5
29	0.2	0.5	1680	1100	107	48	121	25	24	*2.6	9.0	8.2
30	0.9	0.4	1610	486		50	115	24	30	*2.4	11	5.7
31	1.0	—	1460	300	—	57	—	22	—	*2.0	11	—
Mean	3.2	5.0	478	117	95.2	44.2	91.7	41.4	21.8	8.1	2.1	10.9
Ac-Ft	196	297	29400	72120	5476	2719	5458	2545	1296	496	130	648

Maximum Discharge	Water Year Of Record	1,970 c.f.s. December 27, 1955	Total Runoff in Acre-Feet	1955-Calendar Year	62460
				1955-56 Water Year	120800

Department of Water Resources station located 1.5 miles southeast of French Camp at Sharps Lane bridge, Mile 5.4 above mouth. Also known as "Littlejohns Creek near French Camp". French Camp Slough is an east-side tributary to the San Joaquin River at Mile 46.1R above mouth. Dam in channel below station affecting flows from June 10 to November 9, 1955, and from June 12 to October 12, 1956. Flows during these periods computed from temporary station below dam.
Period of record 1950 to date.
* Estimated

TABLE 154

DUCK CREEK AT FARMINGTON

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	24	1.6	0.2	0	0	0	0	*0.1	*0.1
2			0.1	37	1.1	0.1	0	0	0	0	*0.1	*0
3			0.1	13	0.8	0.1	0	0	0	0	*0	*0
4			0.1	5.2	0.6	0	0	0.2	0	*0.2	*0	*0.1
5			0	72	0.5	0	0	0.1	0	*0.2	*0.1	*0.1
6			0.5	53	0.4	0	0.1	0.2	0	*0.2	*0.2	*0.1
7			0.2	30	0.4	0	0	0.2	0	*0.3	*0.1	*0.1
8			0.3	57	0.3	0	0	0.2	0	*0.3	*0.2	*0.1
9			5.4	25	0.3	0	0	0.2	0	*0.3	*0.1	*0.1
10			1.8	21	0.2	0	0	0.2	*0.8	*0.2	*0.1	*0.1
11			0.4	41	0.2	0	0.1	0.1	*0.6	*0.2	*0.1	*0.1
12			0.2	18	0.2	0	0.2	0	*0.3	*0.1	0	*0.1
13	N	N	0.1	6.8	0.2	0	0.1	0	*0.2	*0	0	*0.1
14	O	O	0	64	0.2	0	0.2	0	*0.2	*0.2	0	*0.1
15			0	86	0.2	0	0.1	0	*0.3	*0.2	0	*0.1
16			0	64	0.1	0	0	0	*0.4	*0	0	*0.1
17	F	F	0	30	0.1	0	0	0	*0.3	*0.1	*0.1	*0.1
18	L	L	0	16	0.1	0	0	0	*0.2	*0	*0.1	*0.1
19	O	O	0	8.0	0.1	0	0	0	*0.2	*0.2	*0.1	*0.1
20	W	W	0	50	0	0	0	0	*0.3	*0.3	0	*0.5
21			0.1	51	0	0	0	0	*0.4	*0.2	0	*0.5
22			61	36	0	0	0	0	*0.4	*0.1	*0.2	*0.5
23			99	62	2.8	0	0	0	*0.3	*0.1	*0.5	*0.5
24			80	28	1.1	0	0	0	*0.2	*0.2	*0.4	*0.5
25			43	60	1.0	0	0	0.4	*0.1	*0.2	*0.3	*0.5
26			41	69	0.5	0	0.1	0.7	0	*0.1	*0.4	*0.5
27			50	56	0.4	0	0.1	0.1	0	*0	*0.5	*0.5
28			27	25	0.3	0	0	0	0	*0	*0.4	*0.5
29			9.6	8.7	0.2	0	0	0.3	0	*0	*0.3	*0.5
30			4.2	3.9		0	0	0.1	0	*0	*0.2	*0.5
31		—	42	2.5	—	0	—	0.1	—	*0.1	*0.1	—
Mean	0	0	15.0	36.2	0.5	0	0	0.1	0.2	0.1	0.2	0.2
Ac-Ft	0	0	924	2228	28	1	2	6	10	8	9	14

Maximum Discharge	Water Year Of Record	106 c.f.s. December 23, 1955	Total Runoff in Acre-Feet	1955-Calendar Year	2155
				1955-56 Water Year	3230

Department of Water Resources station located 0.5 mile northwest of Farmington, 300 feet west of Bellota-Excalon highway. Period of record 1950 to date.
* Estimated

TABLE 155

DUCK CREEK NEAR STOCKTON

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1	0.3	0	0	33	8.2	0.7	0.9	0.6	1.0	0.7	0.3	0.2
2	0.3	0	0	35	6.4	0.7	0.9	0.6	1.4	0.3	0.5	0.2
3	0.1	0	0	36	5.4	0.6	1.2	0.8	1.1	0.1	0.4	0.4
4	0	0	0	30	3.6	0.5	1.1	0.5	0.8	0	0.4	0.4
5	0.6	0	0	38	2.8	0.4	0.7	0.3	0.4	0.2	0.4	1.0
6	1.0	0	0	123	1.8	0.3	1.4	0.4	0.1	0.4	0.5	2.4
7	0.2	0	0	71	1.2	0.2	2.0	0.4	0.4	0.3	0.7	1.8
8	0.2	0	0	57	0.9	0.2	1.0	0.4	1.0	0.6	0.7	1.0
9	0.2	0	1.9	57	0.6	0.2	0.6	0.5	1.0	0.4	1.2	0.8
10	0	0	3.8	35	0.5	0.2	0.7	0.4	0.8	0.4	1.2	0.9
11	0	0	4.7	30	0.4	0.2	1.0	0.4	0.6	0.6	0.9	0.9
12	0	0	4.4	34	0.3	0.1	0.9	0.4	0.9	0.5	0.8	0.7
13	0	0	3.7	22	*0.2	0	1.1	0.3	0.3	0.2	0.7	0.2
14	0.6	0	2.2	27	0	0	1.4	0.3	0.4	0	0.5	0.4
15	0.2	0	1.0	145	0	0	1.6	0.4	0.6	0	0.4	0.2
16	0.1	0.2	0.5	183	0	0	0.9	1.3	0.9	0	0.4	0.1
17	0.2	0.2	0.3	86	0	0	0.8	0.8	0.9	0	0.2	0
18	0.3	0.1	0.2	41	0	0	0.9	1.5	0.8	0	0.2	0
19	0.1	0	0.2	25	0	0	0.9	5.6	0.2	0.3	0.3	0.2
20	0	0	2.0	28	0	0	1.0	6.0	1.5	0.4	0.1	0.2
21	0	0	1.2	64	0	0	0.5	1.2	1.1	0.3	0.1	0.3
22	0	0	5.7	45	0	0.2	0.2	0.7	1.2	0.2	0.2	0.2
23	0	0	178	56	0	0.7	0.1	0.8	1.4	0.2	0.3	0
24	0	0	357	52	0	1.5	0.4	1.2	0.9	0	0.8	0
25	0	0	215	44	0	1.2	0.7	2.0	0.4	0	0.6	0
26	0	0	87	62	0	1.3	0.5	2.4	0.5	0.6	0.4	0
27	0	0.1	80	97	0	0.9	0.4	2.1	0.7	0.4	0.4	0
28	0	0.1	64	53	0.6	1.3	0.9	3.0	1.0	0.5	0.4	0
29	0	0.1	37	28	1.0	1.3	1.0	2.7	0.6	0.6	0.3	0
30	0	0	29	18		1.1	0.8	2.0	0.7	0.3	0.6	0
31	0	—	24	12	—	1.0	—	1.4	—	0.2	0.2	—
Mean	0.1	0	35.6	53.8	1.2	0.5	0.9	1.3	0.8	0.3	0.5	0.4
Ac-Ft	9	2	2188	3306	67	29	53	82	47	17	30	25

Maximum Discharge	Water Year Of Record	400 c.f.s. December 24, 1955	Total Runoff in Acre-Feet	1955-Calendar Year	4657
				1955-56 Water Year	5855

Department of Water Reaources atation located approximately 0.5 mile weet of U. S. Highway 99 on Pock Lane bridge. Duck Creek is an east-eide tributary, via French Camp Slough, to the San Joaquin River at Mile 46.1R above mouth. During high-flow periods, Duck Creek water enters Mormon Slough at a point approximately two miles east of the head of the Stockton Diverting Canal. Period of record 1950 to date.

* Estimated

TABLE 156

CALAVERAS RIVER AT JENNY LIND

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1		0	9.2	1250	775	504	4.3	7.0	122	199	190	140
2		0	14	1200	662	476	4.3	7.4	122	204	190	130
3		0	38	1000	580	1020	4.0	8.6	128	202	190	120
4		0	35	750	524	1200	3.4	14	126	199	180	110
5		0	26	1890	480	594	2.8	14	130	204	180	120
6		0	40	2740	442	81	2.5	17	142	199	180	130
7		0	414	2060	411	17	2.5	16	152	199	180	130
8		0	178	1690	380	14	2.2	14	171	202	180	130
9		0	117	1120	355	16	2.5	16	180	204	180	130
10		0	162	865	334	16	2.5	14	173	204	180	130
11		0	113	815	317	17	4.9	18	173	204	180	130
12		0	74	693	305	17	7.0	32	190	204	180	100
13	N	0	56	585	296	17	7.0	46	185	202	180	95
14	O	0	44	1280	290	17	8.2	57	190	202	180	90
15		0	37	3220	260	16	8.2	64	194	204	180	100
16		0	34	3900	254	14	7.0	83	190	204	180	100
17	P	0	34	3220	195	14	5.8	100	178	202	180	90
18	L	0	49	2730	22	14	5.5	114	176	199	180	55
19	O	0	314	1800	14	12	4.9	136	176	187	180	65
20	W	[illegible]	2040	1030	14	11	4.9	138	178	169	178	60
21		[illegible]	1210	942	14	9.8	4.6	138	192	169	180	45
22		0	289	830	15	9.4	4.9	138	134	167	170	40
23		[illegible]	1500	2010	109	8.6	4.6	138	57	160	170	35
24		[illegible]	1300	2000	48	7.8	5.2	142	46	162	160	55
25		[illegible]	946	1840	148	6.7	5.5	148	45	173	160	80
26		0	7670	2850	380	5.8	7.0	144	72	182	160	20
27		.5	684	3530	484	4.9	7.8	140	190	180	150	6.0
28		[illegible]	[illegible].0	3240	510	4.6	7.4	138	230	180	140	5.0
29		[illegible]	3[illegible]	[illegible]20	524	4.9	7.4	134	225	180	140	5.0
30		[illegible]	[illegible]	570		4.9	7.0	128	212	180	140	4.0
31		—	[illegible]	384	—	4.9	—	124	—	180	140	—
Mean		[illegible]	.143	1[illegible]	15	134	5.2	78.3	156	191	172	81.7
Ac-Ft		[illegible]	[illegible]800	1[illegible]30	[illegible]40	8250	309	4820	9280	11710	10590	4860

Maximum Discharge	Water Year Of Record	14,[illegible] .f.s. December .3, 19[illegible] [illegible] .f.s. January 31, 1911	Total Runoff in Acre-Feet	1955-Calendar Year	208200
				1955-56 Water Year	313700.

U. S. Oeological Survey and Department of Water Reaources cooperative station located 0.2 mile south of Jenny Lind below bridge on Milton Road, Mile 36.9 above mouth. Drainage area is 395 square miles. Period of record January 190[illegible] to date. Records computed by U. S. Oeological Survey.

TABLE 157

CALAVERAS RIVER AT BELLOTA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1			0	*120	160	*0	3.2	0	80	*107	122	96
2			0	*109	140	*0	1.3	0	74	*128	120	95
3			0	*108	130	*0	0.5	0	74	128	120	94
4			0	*116	122	*0	0.	0	73	128	120	92
5			0	*140	117	*0	0	0	77	127	121	89
6			0	*180	112	0	0	0	81	127	119	92
7			28	*180	108	0	0	0	94	128	117	92
8			70	*195	102	0	0	0	104	128	116	90
9			70	*170	98	0	0	0	111	127	115	91
10			70	*140	95	0	0	0	110	116	119	90
11			68	*130	40	0	0	0	110	110	116	91
12			63	*128	0	0	0	0	111	110	115	90
13	N	N	57	85	0	0	0	0	110	110	115	87
14	O	O	47	*140	0	0	0	0.4	119	110	114	83
15			38	*265	0	0	0	17	125	110	113	78
16			32	*305	0	0	0	32	124	111	115	83
17	F	F	22	*215	0	0	0	40	122	111	115	81
18	L	L	4.8	184	0	0	0	48	108	112	114	79
19	O	O	19	*174	0	0	0	74	126	110	114	27
20	W	W	129	*165	0	0	0	89	134	104	115	0
21			165	*182	0	0	0	88	140	104	114	0
22			193	*157	0	0	0	88	47	104	110	0
23			NR	*176	0	0	0	89	0	103	110	0
24			NR	*178	0	0	0	86	0	103	109	0
25			NR	*184	0	0	*0.8	88	0	104	108	0
26			NR	*200	0	8.9	*0.8	90	7.3	107	107	0
27			NR	*218	0	8.0	*0.9	90	*9.6	116	106	0
28			NR	197	*0	5.4	*0.8	87	*13	111	105	0
29			NR	180	*0	5.6	*0.6	83	*19	107	102	0
30			NR	154		4.9	*0.5	79	*25	108	102	0
31		—	NR	148	—	3.3	—	81	—	111	98	—
Mean	O	O		168	42.2	1.2	0.3	40.3	77.6	114	113	54.0
Ac-Ft	O	O		10360	2428	72	19	2478	4617	6982	6954	3213

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year

Department of Water Resources station located just above the highway bridge at Bellota, Mile 25.25L above mouth.
Station was washed out by high water on December 23, 1955, and reinstalled on January 12, 1956.
Flows are regulated by headgates. Period of record 1948 to date.
* Estimated

TABLE 158

CALAVERAS RIVER NEAR STOCKTON

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	114	141			0	24	31	5.6	24
2			0	103	134			0	24	36	7.8	24
3			0	99	122			0	16	30	9.6	18
4			0	108	118			0	22	38	15	15
5			0	116	113			0	11	40	26	13
6			0	171	110			0	7.4	41	28	14
7			0	170	107			0	6.9	46	24	14
8			0	183	104			0	8.1	51	21	17
9			0	159	101			0	18	49	13	23
10			0	128	99			0	23	42	10	22
11			34	126	95			0	14	39	14	19
12			39	114	18			0	9.7	36	26	19
13	N	N	38	108	0	N	N	0	3.5	36	27	18
14	O	O	34	121	0	0	0	0	2.0	34	18	15
15			28	236	0			0	6.4	38	18	16
16			23	288	0			0	6.4	32	21	22
17	F	F	19	203	0	F	F	0	13	24	22	22
18	L	L	14	172	0	L	L	0	18	22	19	28
19	O	O	3.8	159	0	0	0	0	3.9	20	18	25
20	W	W	0	148	0	W	W	0	0.6	16	20	12
21			155	170	0			16	11	17	20	2.5
22			178	131	0			17	11	19	18	0.3
23			296	166	0			23	0.6	18	18	0
24			*438	167	0			12	0	8.1	20	0
25			*406	172	0			27	0	7.7	22	0.5
26			343	183	0			32	0	8.8	20	0.3
27			282	201	0			33	0	9.0	27	0
28			184	177	0			39	0	12	18	0
29			150	162	0			33	0	18	23	0
30			129	149				32	7.0	16	24	0
31		—	122	128	—		—	25	—	1.5	29	—
Mean	O	O	94.0	156	43.5	O	O	9.3	8.9	27.0	19.4	12.8
Ac-Ft	O	O	5783	9584	2503	O	O	573	531	1658	1194	761

Maximum Discharge	Water Year Of Record	*520 c.f.s. December 24, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	8417 22590

Department of Water Resources station located at Mile 7.9L above mouth, 0.9 mile below Solari Road bridge and 2.5 miles above mouth of Stockton Diverting Canal. It was moved to this location from Mile 8.9 on November 15, 1955.
Calaveras River is an east-side tributary to the San Joaquin River. Period of record 1948 to date.
* Estimated

TABLE 159

MORMON SLOUGH AT BELLOTA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	NR	584	609	0	0.7	59	60	52	45
2			0	NR	419	567	0	0.2	52	61	59	37
3			0	NR	366	938	*0	2.6	78	66	*57	40
4			0	NR	323	1540	*0	3.0	66	64	*57	31
5			0	NR	285	1040	*0	3.4	40	62	*55	15
6			0	NR	255	158	*0	10	40	62	*55	25
7			142	NR	234	87	*0	11	42	64	52	39
8			141	NR	210	48	*0	8.2	48	64	59	39
9			46	NR	183	37	*0	6.2	73	60	61	36
10			71	NR	168	33	*0	6.2	70	62	52	29
11			64	NR	263	31	*0	8.2	70	62	55	32
12			26	*484	323	29	*1.0	9.2	78	64	59	31
13	N	N	3.9	414	314	26	2.2	18	77	64	54	16
14			0	1500	309	24	2.6	28	82	62	55	4.2
15	O	O	0	4390	280	23	3.0	18	88	65	57	0
16			0	*4660	276	20	1.3	0	84	68	57	9.6
17	F	F	0	3630	259	18	1.6	3.3	77	65	54	2.3
18	L	L	33	2940	103	17	3.4	29	77	68	56	0
19	O	O	71	2030	42	14	3.0	69	66	69	59	11
20	W	W	1380	1170	31	13	3.0	64	61	61	57	60
21			1250	892	28	12	1.7	23	65	56	54	50
22			*2220	741	26	10	2.2	25	107	57	52	36
23			NR	1800	138	9.2	2.2	32	76	54	56	30
24			NR	2030	103	7.2	0.6	48	55	55	56	24
25			NR	2040	106	7.2	0	90	28	60	55	25
26			NR	3240	387	2.0	0	95	10	66	49	*81
27			NR	*3860	549	0	1.3	94	20	52	40	6.2
28			NR	*3010	609	0	2.2	74	87	59	37	5.3
29			NR	*2200	622	0	2.6	65	73	68	45	3.9
30			NR	*1520		0	2.2	56	69	69	46	3.0
31		—	NR	*915	—	0	—	61	—	64	49	—
Mean	0	0			269	172	1.2	31.0	63.9	62.4	53.6	25.6
Ac-Ft	0	0			15460	10550	72	1907	3804	3834	3295	1520

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year

Department of Water Resources station located just above the Escalon Road bridge. Flows are regulated by headgates near Bellota. Period of record 1948 to date. Station was washed out by high water on December 21, 1955, and reinstalled on January 12, 1956.

* Estimated

TABLE 160

STOCKTON DIVERTING CANAL AT STOCKTON

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1			0	*1900	691	555		0	0.1	19	3.2	20
2			0	*1460	551	510		0	0	12	0	14
3			0	*1030	456	583		0	0	7.8	0	7.8
4			0	*893	391	1430		0	0	10	6.6	7.4
5			0	*941	352	1150		0	0	14	15	0.9
6			0	*3850	312	202		0	0	14	25	0.1
7			0	*1410	274	92		0	0	20	8.1	0
8			132	*1180	244	41		0	0	16	0.3	1.4
9			77	*1150	218	26		0	0	16	3.4	5.6
10			40	*1000	198	20		0	0	9.9	8.1	4.4
11			74	*903	213	17		0	0	14	0.1	1.4
12			32	*764	289	14		0	0	8.8	0.1	4.0
13	N	N	7.3	510	278	13	N	0	0	12	9.2	2.0
14	O	O	0.3	1100	271	12	O	0	0	7.8	0.2	0.1
15			0	4130	258	9.5		0	4.3	7.8	0	0
16			0	5690	246	8.3		0	18	20	1.6	0
17	F	F	0	3800	224	6.3	F	0	14	11	13	2.1
18	L	L	0	3010	137	4.8	L	0	13	7.8	11	0.4
19	O	O	0.4	2150	43	4.0	O	0	12	11	19	0.3
20	W	W	788	1360	25	2.6	W	0	2.8	7.1	28	6.0
21			1310	1210	18	1.6		0	0.7	2.7	18	33
22			1430	850	16	0.9		0	11	4.2	4.0	11
23			*7150	1910	59	0.1		0	54	3.2	4.4	1.2
24			*2500	2160	122	0		*0	18	0	16	0
25			*8440	2070	63	0		*0	5.6	0	19	0
26			*4070	3060	227	0		*0	0	1.8	15	0
27			*7140	4180	462	0		*0	0	5.1	12	0
28			*5360	3410	528	0		*0	0	0	1.2	0
29			*3840	2830	551	0		*0.1	20	0.4	0.2	0
30			*2420	2090		0		0.1	20	17	7.4	0
31		—	*1890	1060	—	0	—	0.2	—	12	9.6	—
Mean	0	0	1871	2041	266	152	0	0	6.4	9.4	8.3	4.1
Ac-Ft		0	115000	124900	15200	9328	0	1	384	580	513	244

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year
	9,900 c.f.s. December 24, 1954 9,900 c.f.s. December 24, 1955		167200 266200

Department of Water Resources station located approximately 300 feet below Waterloo Road bridge. Stockton Diverting Canal enters the Calaveras River at Mile 5.4L above mouth. Period of record 1944 to date.

* Estimated

TABLE 161

BEAR CREEK NEAR LOCKEFORD

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	53	21	12	0.7	0.1				
2			0	75	16	8.1	0.5	0.1				
3			0	34	13	6.9	0.4	0.1				
4			0	26	12	5.8	3.6	0.3				
5			0	346	10	5.0	2.9	0.2				
6			0	213	9.0	3.8	2.0	0.2				
7			0	111	7.3	3.3	1.9	0.1				
8			0	228	6.6	2.9	1.3	0.1				
9			1.8	62	5.8	2.5	1.7	0.1				
10			0.6	76	5.3	2.4	1.7	0.1				
11			0.2	86	5.0	2.4	11	0				
12			0	46	4.5	2.0	4.1	0.3				
13	N	N	0	37	4.3	1.9	3.4	1.0	N	N	N	N
14	O	O	0	451	4.1	1.7	2.9	1.3	O	O	O	O
15			0	747	4.3	1.9	2.0	1.0				
16			0	512	5.0	1.6	1.4	0.8				
17	F	F	0	102	4.8	1.4	4.3	0.7	F	F	F	F
18	L	L	0	58	4.5	1.3	5.3	0.5	L	L	L	L
19	O	O	4.5	41	4.5	1.1	2.9	0.5	O	O	O	O
20	W	W	21	185	4.8	1.1	2.0	0.3	W	W	W	W
21			3.4	96	4.5	1.0	1.7	0.2				
22			378	83	6.7	1.0	1.1	0.2				
23			1460	209	45	1.0	0.9	0.1				
24			1030	66	29	0.9	0.5	0.1				
25			154	248	18	0.9	0.3	0				
26			370	181	28	0.8	0.9	0				
27			247	190	19	0.7	1.6	0				
28			70	73	12	0.6	1.0	0				
29			38	48	12	0.6	0.6	0				
30			27	34		0.3	0.2	0				
31		—	122	28	—	0.2	—	0	—			—
Mean	0	0	127	153	11.2	2.5	2.2	0.3	0	0	0	0
Ac-Ft	0	0	7790	9410	647	153	129	17	0	0	0	0

Maximum Discharge			Total Runoff in Acre-Feet		
	Water Year	1,840 c.f.s. December 23, 1955		1955-Calendar Year	13510
	Of Record	2,260 c.f.s. February 2, 1945		1955-56 Water Year	18150

U. S. Geological Survey and Department of Water Resources cooperative station located below County Road bridge 0.8 mile southeast of Lockeford. Drainage area is 48.4 square miles. Period of record November 1930 to September 1933; October 1943 to date. (Prior records available at a site three miles downstream.) Records computed by U. S. Geological Survey.

TABLE 162

DELTA-MENDOTA CANAL NEAR TRACY

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	1721	499	482	0	0	0	433	252	399	2527	3359	1985
2	1721	463	483	0	0	0	432	324	472	2600	3295	1985
3	1722	463	483	0	0	0	431	361	472	3127	3361	1986
4	1722	427	483	0	0	0	430	362	473	3142	3361	1984
5	1718	391	475	0	0	0	430	288	473	3267	3365	2161
6	1692	391	485	0	0	0	428	874	327	3111	3190	2199
7	1833	391	484	0	0	141	466	876	438	3114	3189	2195
8	1837	392	482	0	0	69	467	876	438	3120	2946	1873
9	1831	391	351	138	0	871	467	549	438	3098	3009	1658
10	1841	498	0	0	0	871	505	216	438	3163	3033	1656
11	1421	500	0	0	0	872	872	217	437	2943	3031	1660
12	1320	392	0	0	0	870	872	218	509	2948	3035	1659
13	1322	392	0	45	0	870	869	218	509	3036	3029	1556
14	1324	392	0	0	0	470	690	218	581	3098	3029	1490
15	1062	319	0	0	238	506	615	216	577	3098	3032	1489
16	1061	319	0	0	0	578	871	250	649	3067	3034	1489
17	963	319	0	0	0	579	872	289	648	3200	3035	1549
18	898	212	0	0	287	579	871	290	541	3199	3005	1554
19	863	212	0	0	872	396	871	290	640	3204	3001	1421
20	862	213	60	0	941	358	871	289	1103	3186	3000	1422
21	679	213	17	0	1114	359	871	289	1676	3334	2728	1423
22	678	213	0	0	696	468	870	290	1675	3365	2718	1388
23	678	212	0	0	0	468	873	290	1677	3364	2765	1390
24	532	176	0	0	0	395	874	327	1745	3367	2769	1388
25	533	175	0	0	0	396	873	364	2531	3370	2703	965
26	498	176	0	0	0	396	874	402	2525	3369	2609	965
27	497	175	0	0	28	431	761	403	2524	3365	2546	1030
28	497	632	0	0	0	504	254	438	2525	3364	2353	1128
29	497	550	0	0	438	469	224	327	2524	3364	2422	1161
30	498	412	0	0		469	252	218	2527	3360	2306	1181
31	499	—	0	0	—	433	—	400	—	3363	2058	—
Mean	1123	350	138	5.9	159	413	650	362	1083	3169	2913	1566
Ac-Ft	69064	20846	8499	363	9152	25424	38638	22257	64446	194845	179142	93302

Maximum Discharge			Total Runoff in Acre-Feet		
	Water Year			1955-Calendar Year	1160048
	Of Record			1955-56 Water Year	725978

U. S. Bureau of Reclamation station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Bryon, and 10 miles northwest of Tracy. This flow is the diveraion from Old River by the Tracy Pumping Plant. Period of record June 1951 to date.

TABLE 163

MOKELUMNE RIVER AT LANCHA PLANA

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	164	332	334	3000	2470	1520	1510	1770	4320	1200	550	552
2	202	329	332	2400	2140	1520	1310	2050	3810	1370	525	552
3	463	329	332	1900	1950	1520	1310	1930	3980	1180	688	553
4	461	329	332	3600	1950	1520	1260	2810	4240	1030	546	553
5	468	329	332	4900	1950	1520	1290	3030	3800	890	541	553
6	480	329	334	4200	1950	1520	1230	3020	2720	884	515	553
7	466	329	362	3000	1760	1380	1290	3010	2680	902	518	553
8	217	329	362	2900	1740	1520	1290	2270	2680	824	457	553
9	213	329	362	2400	1740	1170	1290	3000	3420	824	523	553
10	470	329	362	2400	1680	1520	1580	3000	3380	872	518	566
11	467	329	362	2300	1380	1450	1650	3000	2690	824	517	567
12	467	329	350	1800	1320	1140	1520	3000	2500	759	517	568
13	457	321	337	1600	1510	1210	1670	2990	2380	737	517	571
14	456	334	333	2840	1510	1130	1610	2190	2360	732	517	567
15	216	332	342	4330	1510	1110	1460	2250	2300	732	553	575
16	209	332	342	4970	1510	1520	1310	2220	2280	732	561	568
17	456	334	342	4950	1520	1520	1480	2240	2180	732	550	567
18	464	332	345	4940	1510	1520	1400	2180	2180	732	549	569
19	475	332	353	4880	1520	1520	1320	2930	2400	732	549	577
20	469	332	345	3030	1520	1440	1250	2930	2380	732	549	546
21	468	332	345	2460	1440	1310	1480	2130	1310	732	553	566
22	218	332	1600	2530	1530	1310	1310	2460	1480	732	553	546
23	218	332	19100	4670	1240	1350	1330	2680	2310	732	554	561
24	461	332	14900	3940	1500	1520	1490	3080	2220	732	554	549
25	451	332	6200	3450	1530	1520	1900	4010	1860	732	558	564
26	290	329	5200	3890	1530	1400	2110	4930	1660	732	553	562
27	329	332	6000	3900	1520	1370	2040	4890	1790	732	554	562
28	329	332	4900	3880	1520	1310	1590	4460	2300	732	536	556
29	329	329	4400	3860	1520	1300	2010	3600	2310	726	535	567
30	329	329	3700	3300		1410	1640	3520	1680	726	535	549
31	332	—	3400	2820	—	1520	—	4030	—	720	546	—
Mean	371	330	2472	3388	1637	1406	1498	2955	2587	821	542	560
Ac-Ft	22800	19660	152000	208300	94160	86460	89120	181700	153900	50480	33300	33320

Maximum Discharge		Total Runoff in Acre-Feet	
Water Year	25,500 c.f.a. December 23, 1955	1955-Calendar Year	398900
Of Record	26,700 c.f.a. November 21, 1950	1955-56 Water Year	1125000

U. S. Geological Survey and Department of Water Resources cooperative station located three miles below Pardee Dam. Drainage area is 584 square miles. Period of record June 1926 to date. Records computed by U. S. Geological Survey.

TABLE 164

MOKELUMNE RIVER NEAR CLEMENTS

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	290	335	362	3300	2460	1480	1430	1750	4410	1300	520	470
2	161	338	350	2640	2250	1480	1250	2060	3870	1210	429	485
3	368	338	350	2020	1940	1480	1230	1780	4000	1230	670	490
4	463	338	350	2920	1940	1470	1150	2640	4180	888	481	490
5	466	338	355	5100	1940	1470	1180	2970	4060	940	467	492
6	466	335	362	4750	1930	1460	1230	2980	2740	832	486	485
7	477	335	378	3120	1810	1360	1200	2970	2560	856	438	488
8	292	338	391	3110	1710	1440	1210	2280	2560	796	391	490
9	212	338	397	2540	1710	1150	1120	2930	2730	764	443	491
10	385	338	385	2420	1690	1430	1460	2970	2870	820	449	492
11	469	338	385	2360	1420	1390	1560	2960	2570	800	444	490
12	457	340	378	1960	1250	1060	1540	2960	2470	732	456	493
13	453	345	358	1610	1460	1130	1510	2950	2150	700	441	516
14	456	345	352	2690	1460	1090	1580	2200	2330	692	445	517
15	294	348	365	4540	1460	1020	1520	2170	2090	688	447	494
16	212	348	362	5390	1460	1400	1160	2200	2230	680	487	514
17	372	348	368	5110	1460	1440	1420	2200	2060	680	495	501
18	451	345	368	5070	1460	1440	1340	2180	2050	684	488	501
19	466	345	421	5000	1470	1440	1330	2830	2170	680	492	520
20	471	345	409	3080	1470	1380	1140	2800	2390	680	484	507
21	459	348	375	2550	1400	1240	1410	2120	1370	680	484	504
22	209	352	902	2560	1500	1240	1250	2360	1300	684	492	490
23	214	348	16100	4210	1290	1250	1240	2570	2060	680	485	500
24	317	350	20600	4460	1520	1430	1320	2890	2200	680	491	496
25	442	350	7170	3060	1500	1440	1880	3790	1840	676	487	482
26	369	350	5300	3980	1520	1330	2060	4970	1570	680	500	497
27	339	348	6090	4080	1480	1320	2130	4990	1600	680	490	497
28	339	350	4980	4000	1480	1230	1440	4730	2180	680	491	490
29	329	348	4530	3770	1500	1200	2010	3720	2190	680	470	491
30	339	348	3980	3530		1320	1490	3490	1660	676	463	497
31	339	—	3810	3800	—	1420	—	3910	—	673	471	—
Mean	371	344	2568	3529	1619	1336	1426	2915	2482	778	477	496
Ac-Ft	22800	20490	157900	217000	93100	82180	84870	179300	147700	47840	29310	29400

Maximum Discharge		Total Runoff in Acre-Feet	
Water Year	27,300 c.f.s. December 24, 1955	1955-Calendar Year	424900
Of Record	28,800 c.f.s. November 21, 1950	1955-56 Water Year	1114000

U. S. Geological Survey and Department of Water Resources cooperative station located one mile north of Clements, 100 feet above the highway bridge, Mile 39.35 above New Hope Bridge. Drainage area is 630 square miles. Period of record 1904 to date. Records computed by U. S. Geological Survey.

TABLE 165

MOKELUMNE RIVER AT WOODBRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	199	168	316	3430	2920	1600	1300	1520	3530	1210	220	102
2	57	175	324	3110	2610	1590	1260	1600	3800	842	112	106
3	25	177	313	2580	2300	1580	1080	1680	3500	1010	97	144
4	118	173	312	2180	2160	1580	1080	1830	3550	643	155	133
5	182	173	313	2940	2110	1580	1090	2420	3750	677	111	130
6	190	169	322	4100	2090	1570	1030	2520	3270	478	100	120
7	206	166	322	4320	2060	1560	934	2570	2440	468	85	117
8	204	156	349	3460	1930	1500	1060	2530	2280	470	71	124
9	66	140	356	3020	1900	1540	973	2040	2230	380	56	213
10	30	154	348	2620	1890	1320	1160	2510	2450	380	59	167
11	127	170	343	2470	1810	1540	1400	2550	2320	421	60	166
12	196	187	343	2320	1580	1450	1500	2560	2200	383	62	180
13	218	287	330	1970	1590	1270	1380	2560	1940	308	71	268
14	234	331	313	2020	1660	1260	1520	2460	1950	295	62	217
15	220	472	309	2910	1650	1190	1470	1900	1790	309	58	164
16	92	650	318	3950	1640	1240	1230	1870	1640	295	58	193
17	49	390	322	4360	1630	1500	1280	1850	1700	282	86	206
18	155	336	325	4750	1640	1530	1290	1860	1690	255	128	210
19	223	324	349	4780	1640	1520	1230	1960	1680	261	117	299
20	241	320	385	4740	1630	1500	1050	2350	1890	261	101	303
21	253	320	344	3760	1620	926	1160	2250	1650	266	80	276
22	244	318	460	3120	1580	1190	1210	1830	900	286	83	322
23	100	319	2180	3100	1650	1200	1020	2020	1430	288	84	337
24	61	316	14200	3790	1450	1270	1080	2210	1740	270	83	277
25	163	314	10100	4060	1600	1360	1430	2550	1620	262	88	251
26	237	313	5940	3730	1620	1320	1620	3170	1300	257	94	252
27	164	310	5250	3810	1610	1160	1830	4140	1240	258	95	247
28	162	309	5380	3890	1580	1110	1580	4200	1500	290	86	251
29	170	307	4880	3860	1600	1100	1600	3750	1680	292	79	240
30	166	306	4420	3830		1140	1610	3120	1590	280	73	252
31	166	—	3890	3500	—	1220	—	3120	—	265	83	—
Mean	159	275	2053	3435	1819	1368	1282	2435	2142	408	90.2	209
Ac-Ft	9750	16360	126300	211200	104600	84130	76280	149800	127400	25080	5550	12430

Maximum Discharge	Water Year 23,000 c.f.s. December 24, 1955 Of Record 27,000 c.f.s. November 22, 1950	Total Runoff in Acre - Feet	1955 - Calendar Year 247500 1955 - 56 Water Year 948900

U. S. Geological Survey and Department of Water Resources cooperative station located 0.4 mile below diversion dam of Woodbridge Irrigation District. Drainage area is 644 square miles. Period of record May 1924 to date. Records computed by U. S. Geological Survey.

TABLE 166

DRY CREEK NEAR GALT

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1		0	0	692	492	384	74	45	6.0			
2		0	0	984	414	296	77	40	5.8			
3		0	0	697	358	260	68	39	5.0			
4		0.1	0	508	315	236	63	98	3.3			
5		0	0	2430	288	220	61	110	1.2			
6		0	0	4260	264	218	59	120	1.0			
7		0	0	1400	238	188	56	135	0			
8		0	0	2060	220	174	52	145	0			
9		0	0	1020	202	164	50	160	0			
10		0	0	799	189	156	49	171	0			
11		0	0	787	180	148	58	155	0			
12		0	0	577	173	138	106	140	0			
13	N	0	0	467	164	131	98	125	0	N	N	N
14	O	0	0	1640	156	126	93	110	0	0	0	0
15		0	0	6340	147	119	97	95	0			
16		0.2	0	7780	138	114	79	80	0			
17	F	0.2	0	1960	130	110	73	68	0	F	F	F
18	L	0	0	1100	135	106	65	60	0	L	L	L
19	O	0	22	818	130	102	59	55	0	0	0	0
20	W	0	624	908	167	101	53	45	0	W	W	W
21		0	270	848	188	98	50	40	0			
22		0	1840	730	162	96	47	37	0			
23		0	12800	2140	962	89	43	32	0			
24		0	13100	1360	705	86	39	31	0			
25		0	3890	1440	424	82	38	26	0			
26		0	2800	1480	575	78	53	24	0			
27		0	4600	2140	415	73	90	16	0			
28		0	1660	1400	337	71	70	13	0			
29		0	865	941	482	70	57	10	0			
30		0	637	718		68	50	8.8	0			
31		—	784	591	—	67	—	8.1	—			—
Mean	0	0.0	1416	1646	302	141	64.2	72.3	0.7	0	0	0
Ac-Ft	0	1.0	87100	101200	17360	8670	3820	4450	44		0	0

Maximum Discharge	Water Year 17,000 c.f.s. December 24, 1955 Of Record 17,000 c.f.s. December 24, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 132800 1955 - 56 Water Year 222600

U. S. Geological Survey and Department of Water Resources cooperative station located at Dustin Road bridge, four miles east of Galt. It is also known as "Dry Creek at Dustin Road". Drainage area is 325 square miles. Period of record December 1926 to September 1933; October 1944 to date. Records computed by U. S. Geological Survey.

TABLE 167

COSUMNES RIVER AT MICHIGAN BAR

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	6.7	9.8	46	1080	1930	1050	963	785	659	126	48	25
2	6.1	10	91	1850	1720	963	870	776	618	119	45	24
3	6.7	9.8	104	1430	1590	920	785	794	602	117	45	23
4	6.1	9.8	78	1330	1460	910	740	1710	570	110	45	22
5	5.6	11	67	4810	1340	1020	713	2070	521	108	44	21
6	5.6	10	153	3040	1260	996	695	1930	476	103	43	19
7	6.7	9.8	513	2120	1160	890	704	1900	452	99	42	20
8	7.3	12	216	2240	1080	850	713	1900	429	95	42	19
9	7.9	12	162	1680	996	821	722	1860	418	90	40	20
10	10	13	213	1580	930	803	776	1790	412	87	38	22
11	6.7	13	159	1460	900	794	890	1710	407	87	37	21
12	8.5	15	125	1280	830	776	920	1650	380	88	35	20
13	9.8	20	110	1190	840	758	794	1520	360	90	35	22
14	10	35	99	3140	812	740	803	1340	335	90	34	23
15	10	45	91	7560	776	722	776	1220	350	88	34	23
16	10	40	88	8590	740	713	722	1150	317	87	33	23
17	9.8	44	101	4700	704	722	704	1100	286	84	32	23
18	9.1	56	156	3280	731	740	686	1080	266	80	31	22
19	9.1	53	1200	2670	704	776	686	1060	254	77	30	23
20	8.5	49	2530	2520	1020	812	704	1040	246	72	32	25
21	9.8	67	1470	2420	860	812	740	1060	236	70	31	33
22	9.1	156	13200	2770	945	830	767	1080	222	68	30	40
23	12	90	31700	5580	2750	870	812	1100	212	65	30	34
24	14	66	16900	3730	1540	900	830	1080	200	64	29	31
25	13	57	5800	4130	1250	952	860	974	209	49	28	31
26	13	49	7530	5130	1370	996	1170	890	182	46	27	30
27	13	44	6500	5300	1140	974	1110	860	173	52	25	28
28	14	42	3360	3710	1020	941	941	776	167	53	25	26
29	10	41	2390	2960	1250	920	860	731	150	53	25	26
30	9.8	40	1900	2500		910	812	695	138	51	26	25
31	9.8	—	1820	2200	—	920	—	686	—	48	26	—
Mean	9.3	37.6	3189	3180	1160	865	809	1236	342	81.2	34.4	24.8
Ac-Ft	571	2240	196100	195500	66740	53160	48130	76000	20320	4990	2120	1480

Maximum Discharge			Total Runoff in Acre - Feet		
	Water Year Of Record	42,000 c.f.s. December 23, 1955 42,000 c.f.s. December 23, 1955		1955 - Calendar Year 1955 - 56 Water Year	354400 667400

U. S. Geological Survey and Department of Water Resources cooperative station located at highway bridge at Michigan Bar, Mile 34.3 above mouth. Drainage area is 537 square miles. Period of record October 1907 to date. Records computed by U. S. Geological Survey.

TABLE 168

COSUMNES RIVER AT McCONNELL

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1		0	23	1460	2220	1400	970	824	620	99	17	
2		0	27	1790	1960	1110	920	796	596	96	8.0	
3		0	71	1300	1760	1020	824	792	564	94	0	
4		0	71	992	1600	980	752	1310	550	36	0	
5		0	54	2230	1470	1000	708	2400	526	79	0	
6		0	53	6860	1360	1110	688	2090	469	79	0	
7		0	330	2280	1250	965	692	1950	442	75	0	
8		0	310	2190	1160	891	704	2120	424	69	0	
9		0	174	1540	1070	864	712	1930	412	64	0	
10		0	156	1230	980	842	738	1990	397	56	0	
11		0	168	1320	935	819	855	1790	391	52	0	
12		0	122	1030	873	806	960	1760	376	49	0	
13	N	0	97	902	842	783	860	1600	360	52	0	N
14	O	0	87	1730	819	752	801	1400	343	60	0	O
15		0	77	7740	788	747	810	1230	326	59	0	
16		1	70	14500	729	729	734	1120	320	60	0	
17	F	0	72	7920	692	729	704	1060	290	64	0	F
18	L	0	86	4780	688	747	692	1040	267	56	0	L
19	O	0	231	3550	688	770	680	1030	251	53	0	O
20	W	18	2460	3150	729	824	684	1000	239	50	0	W
21		23	2330	3190	960	828	716	1010	224	46	0	
22		56	3790	2700	873	837	760	1020	202	44	0	
23		100	34100	5130	2470	864	796	1060	190	49	0	
24		59	35600	5710	2510	891	837	1040	183	45	0	
25		43	13800	4670	1540	940	868	966	181	48	0	
26		37	6740	5710	1650	990	1080	876	175	40	0	
27		29	14700	7850	1400	1020	1290	804	159	29	0	
28		27	5900	5380	1180	980	1040	768	150	29	0	
29		23	2520	3860	1310	935	935	684	132	23	0	
30		20	1670	3090		930	868	648	124	13	0	
31		—	1680	2580	—	915	—	628	—	16	0	—
Mean		14.5	4115	3818	1259	904	823	1250	329	55.9	0.8	0
Ac-Ft	0	861	253000	234800	72410	55570	48950	76830	19600	3440	50	0

Maximum Discharge			Total Runoff in Acre - Feet		
	Water Year Of Record	54,000 c.f.s. December 23, 1955 54,000 c.f.s. December 23, 1955		1955 - Calendar Year 1955 - 56 Water Year	434900 765500

U. S. Geological Survey, and Department of Water Resources cooperative station located at U. S. Highway 99 bridge, Mile 10.7 above mouth. When flow in main channel reaches 4,600 c.f.s. water starts to bypass station. Figures given include all overflow. Drainage area is approximately 730 square miles. Period of record 1942 to date. Records computed by U. S. Geological Survey.

TABLE 169

CONTRA COSTA CANAL NEAR OAKLEY

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	64	51	42	34	31	32	45	49	77	84	84	85
2	66	52	40	34	39	33	73	50	82	87	84	85
3	74	57	41	33	43	31	76	53	82	85	84	84
4	88	59	41	34	43	33	68	44	98	81	99	84
5	67	61	39	30	35	33	82	40	102	77	83	91
6	62	62	40	41	34	27	59	41	106	79	96	89
7	65	62	53	41	34	40	50	40	114	83	104	89
8	71	62	46	33	36	35	50	43	91	83	110	90
9	65	65	44	32	31	35	50	46	93	79	108	90
10	68	65	42	28	33	33	51	49	104	79	109	90
11	61	64	44	28	32	32	55	49	120	78	106	91
12	64	65	41	29	27	29	47	58	98	79	99	114
13	64	59	42	43	27	31	54	62	109	76	96	117
14	59	55	45	42	27	32	50	49	94	72	99	128
15	55	52	46	31	27	30	46	63	95	67	96	119
16	53	52	45	27	30	42	43	74	95	67	90	105
17	52	49	45	29	53	40	42	75	96	71	93	105
18	53	45	45	31	58	32	51	77	90	74	95	104
19	54	49	45	38	29	35	59	77	89	74	90	84
20	53	48	42	45	27	40	64	67	89	75	86	98
21	54	48	43	45	49	43	60	63	88	73	86	96
22	58	48	36	28	27	42	56	60	88	68	88	88
23	54	42	35	28	30	44	57	62	94	65	89	86
24	51	43	37	28	40	49	63	72	96	68	90	79
25	54	43	35	28	32	46	51	75	91	72	91	77
26	52	42	26	28	27	60	48	74	96	99	86	81
27	51	42	30	32	29	60	48	74	106	100	86	77
28	50	44	34	34	33	62	45	72	98	96	85	75
29	53	44	35	29	32	70	a 44	76	99	94	86	81
30	54	44	41	27		46	46	72	94	89	86	b 75
31	51	—	35	28	—	48	—	85	—	87	86	—
Mean	59.4	52.5	40.5	32.8	34.3	40.2	54.4	61.0	95.8	79.4	92.6	91.9
Ac-Ft	3650	3122	2489	2020	1973	2470	3236	3751	5700	4881	5693	5476

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	49342
			1955 - 56 Water Year	44461

This flow is the diversion of Contra Costa Canal from Rock Slough. Records computed by U. S. Bureau of Reclamation.
(a) 23-hour day
(b) 25-hour day

TABLE 170

KINGS RIVER AT PIEDRA

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	208	47	46	404	243	5790	3950	1340	6930	9150	7080	1520
2	198	42	39	376	1100	5790	3860	1510	6890	9080	7040	1440
3	198	15	38	293	1800	6050	3840	1760	6930	8550	6860	1340
4	184	11	33	187	2320	6070	3660	2070	7200	8280	6750	1400
5	180	11	29	156	2320	6070	3720	2060	7020	8180	6820	1410
6	180	11	41	140	2320	6350	4080	2140	7150	8000	6730	1510
7	180	11	32	121	2620	6500	3970	2170	7320	7780	6650	1510
8	92	11	44	97	2870	4670	3940	2140	8700	7700	6600	1510
9	78	11	52	83	2900	3230	3900	2490	8780	7650	6440	1540
10	78	11	43	140	3260	3110	3910	2640	8850	7650	6150	2150
11	68	11	46	138	3500	3300	3580	2900	8950	7720	6170	2340
12	64	11	44	204	3800	3500	2720	3100	9020	7780	6130	2210
13	66	12	44	224	3830	3540	2500	3300	8680	7980	6050	2050
14	64	12	46	216	4180	3500	2160	3280	8700	7950	6090	1960
15	64	11	48	224	4590	3620	2060	3600	8780	7980	6110	1960
16	64	10	66	254	4990	3790	2070	4000	7950	7980	5880	1780
17	64	12	70	232	5420	3900	1080	4200	7900	8000	5860	1740
18	66	11	70	232	5480	3840	1070	4400	7400	8000	5800	1730
19	59	12	72	204	5510	3930	1150	4600	7220	8020	5880	1710
20	58	12	72	198	5510	3870	1240	4700	7110	8100	5880	1570
21	58	13	83	198	5510	3970	1210	4770	7280	8020	4830	1560
22	57	12	125	204	5530	4020	945	4740	7480	7920	4750	1540
23	57	22	5580	718	5620	3770	1590	5200	7520	7880	4710	1520
24	57	36	5360	398	5660	3810	1890	5440	8050	7850	4560	1480
25	57	37	2260	2920	5790	3840	1260	5420	8100	7880	4440	1430
26	50	38	864	1210	5800	4100	856	5530	7720	7750	4280	1420
27	48	38	722	1300	5790	4170	727	5790	7900	7800	4230	900
28	46	37	482	637	5770	4080	666	6070	8300	7650	3840	440
29	46	38	448	518	5800	4140	790	6500	9020	7550	3770	388
30	46	38	420	595		4040	1240	6600	9150	7320	3340	343
31	47	—	432	384	—	3980	—	6670	—	7040	1980	—
Mean	89.7	20.1	573	426	4132	4334	2321	3907	7933	7942	5539	1513
Ac-Ft	5520	1200	35210	26190	237700	266500	138100	240300	472100	488300	340600	90050

Maximum Discharge	Water Year 9,380 c.f.s. December 23, 1955 Of Record 91,000 c.f.s. November 19, 1950	Total Runoff in Acre - Feet	1955 - Calendar Year	1157000
			1955 - 56 Water Year	2342000

U. S. Geological Survey and Department of Water Resources cooperative station located 0.5 mile below highway bridge at Piedra. Drainage area is 1694 square miles. Kings River is a tributary to the Tulare Lake area. At times, during high stages it flows into the San Joaquin River via James Bypass. Period of record September 1895 to date. Records computed by U. S. Geological Survey.

TABLE 171

SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1									0	62	236	26
2									0	61	211	12
3									0	61	190	12
4									0	74	194	12
5									0	138	172	10
6									0	201	168	8.0
7									0	211	184	8.0
8									0	212	189	36
9									0	204	191	73
10									39	207	188	74
11									86	190	196	25
12									222	169	207	30
13	N	N	N	N	N	N	N	N	252	157	276	31
14	O	O	O	O	O	O	O	O	242	157	332	30
15									279	163	326	25
16									300	171	328	24
17	F	F	F	F	F	F	F	F	227	183	326	24
18	L	L	L	L	L	L	L	L	269	209	332	24
19	O	O	O	O	O	O	O	O	78	218	337	24
20	W	W	W	W	W	W	W	W	12	213	357	23
21									10	191	346	25
22									8.0	173	341	25
23									8.0	148	339	23
24									9.0	141	338	10
25									28	148	273	0
26									49	144	255	0
27									62	197	156	15
28									90	205	132	25
29									55	230	146	25
30									56	206	144	25
31		—			=		—		—	213	86	—
Mean	0	0	0	0	0	0	0	0	79.4	170	242	23.5
Ac-Ft	0	0	0	0	0	0	0	0	4723	10427	14868	1396

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	1941
			1955 - 56 Water Year	31410

Kings River Water Association station located one mile southwest of Stratford. South Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area.

TABLE 172

CROSS CREEK BELOW LAKELAND CANAL #2

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	0				0	20			
2			0	0				0	0			
3			0	0				0	0			
4			0	0				0	0			
5			0	0				0	0			
6			0	0				0	0			
7			0	0				0	0			
8			0	0				0	0			
9			0	0				0	0			
10			0	0				0	0			
11			0	0				0	0			
12			0	0				0	0			
13	N	N	0	0	N	N	N	0	0	N	N	N
14	O	O	0	0	O	O	O	0	0	O	O	O
15			0	0				0	0			
16			0	0				0	0			
17	F	F	0	0	F	F	F	0	0	F	F	F
18	L	L	0	0	L	L	L	0	0	L	L	L
19	O	O	0	0	O	O	O	0	0	O	O	O
20	W	W	0	0	W	W	W	0	0	W	W	W
21			0	0				0	0			
22			0	0				0	0			
23			0	0				30	0			
24			700	0				50	0			
25			2450	0				55	0			
26			1200	550				60	0			
27			75	2070				60	0			
28			0	1850				70	0			
29			0	1550				75	0			
30			0	950				90	0			
31		—	0	250	=		—	100	—			—
Mean	0	0	143	233	0	0	0	19.0	0.7	0	0	0
Ac-Ft	0	0	8777	14321	0	0	0	1170	40	0	0	0

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	8777
			1955 - 56 Water Year	24310

Corcoran Irrigation District station located below the Cross Creek weir, four miles east of Guernsey. Cross Creek is a tributary of the Tulare Lake area. At times the flow is a combination of Kaweah River water, Kings River water and Cottonwood Creek water. Period of record 1921 to date.

TABLE 173

KAWEAH RIVER NEAR THREE RIVERS

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	23	24	172	1400	1270	574	1030	1430	2300	909	340	90
2	22	24	304	1200	1180	574	921	1550	2290	804	305	86
3	22	24	153	1110	1060	582	861	1830	2100	748	276	80
4	22	27	118	1060	1050	595	835	2970	2190	718	250	78
5	23	26	112	1010	1010	595	855	2240	2030	712	237	78
6	24	26	436	980	936	600	894	1970	1880	700	226	76
7	23	27	484	935	900	610	949	1850	1970	688	210	74
8	21	26	230	899	864	610	1000	1660	2000	670	206	72
9	21	24	1050	882	822	620	1110	2130	2060	652	196	69
10	22	24	446	810	786	625	1180	1750	2080	616	189	69
11	22	26	300	761	760	630	1170	1640	1980	577	179	69
12	22	28	256	747	755	635	1200	1530	1880	544	172	69
13	26	32	238	761	745	635	1150	1320	1860	506	163	65
14	23	77	221	740	740	640	994	1230	1720	478	157	64
15	23	71	207	768	720	626	949	1310	1490	462	151	60
16	24	57	194	1000	690	635	1040	1560	1340	456	148	60
17	22	71	182	866	671	658	1040	1830	1360	440	145	58
18	21	72	172	768	662	653	1030	2090	1410	445	137	54
19	21	88	165	761	648	690	986	2500	1430	500	128	52
20	24	108	170	761	644	671	1070	2130	1330	652	123	54
21	23	138	179	768	630	715	1100	2680	1270	723	123	62
22	29	160	2570	726	626	750	1110	3190	1280	729	115	60
23	26	97	42800	1160	750	780	1300	3420	1310	706	108	55
24	22	82	15100	917	710	858	1440	3270	1310	634	104	52
25	22	77	8210	7580	626	918	1560	2700	1200	577	104	51
26	23	77	5590	4430	617	948	1830	2620	1160	652	101	49
27	23	81	4840	5020	590	936	1760	2730	1220	616	99	49
28	28	88	3330	3180	590	930	1450	2480	1250	550	97	49
29	24	91	2400	2300	574	967	1410	2460	1160	456	94	51
30	24	88	1810	1700		1000	1410	2560	1080	401	90	49
31	24	—	1660	1400	=	1030	—	2470	—	365	90	—
Mean	23.2	62.0	3035	1529	780	719	1154	2165	1631	603	163	63.5
Ac-Ft	1430	3690	186600	94020	44880	44210	68700	133100	97070	37060	10040	3780

Maximum Discharge	Water Year Of Record	80,700 c.f.s. December 23, 1955 80,700 c.f.s. December 23, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	452800 724600

U. S. Geological Survey and Department of Water Resources cooperative station located three miles southwest of Three Rivers post office. Drainage area is 520 square miles. Kaweah River is a tributary of the Tulare Lake area. Period of record February 1936 to date. (Prior records available at a site two miles upstream.) Records computed by the U. S. Geological Survey.

TABLE 174

TULE RIVER AT WORTH BRIDGE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1		0.1	132	448	641	270	315	451	300	56	5.3	4.4
2		1.2	222	412	569	262	300	431	294	50	5.7	4.0
3		3.2	95	385	524	260	282	452	282	47	5.5	4.4
4		4.0	73	368	484	262	265	685	268	42	5.3	4.2
5		4.4	53	353	470	265	268	576	276	36	5.1	4.2
6		5.4	586	341	445	255	278	513	263	32	5.3	4.2.
7		4.9	483	329	417	242	278	486	251	30	5.9	3.8
8		5.4	217	315	398	242	278	450	242	31	6.5	4.2
9		4.9	584	305	380	242	278	666	230	31	5.3	4.0
10		3.6	309	299	371	244	265	740	220	26	5.1	3.7
11		3.2	209	291	359	246	290	693	218	24	5.3	3.0
12		4.9	171	291	350	242	395	730	206	20	5.5	3.0
13	N	5.9	147	283	340	232	420	630	194	18	5.1	3.2
14	O	13	135	279	330	226	368	540	186	17	5.1	3.3
15		17	120	275	318	224	348	540	186	14	5.5	3.5
16		16	109	331	305	220	380	486	176	11	5.1	3.5
17	F	29	99	319	290	222	380	486	161	11	4.9	4.2
18	L	26	92	291	275	226	395	468	152	9.9	4.9	3.8
19	O	21	85	283.	262	238	395	486	144	9.4	5.1	3.7
20	W	31	79	281	255	246	404	442	142	8.8	4.5	4.4
21		51	79	297	255	248	404	434	142	9.9	4.5	4.7
22		85	410	291	250	252	398	459	131	8.3	4.5	4.4
23		51	13600	515	322	255	404	513	120	6.7	4.7	4.4
24		39	3020	570	392	260	404	513	112	5.9	4.5	4.0
25		29	1670	4170	345	268	414	504	105	5.5	4.2	3.3
26		21	1380	2610	340	275	473	426	99	5.7	4.0	4.0
27		19	1440	3680	300	275	582	402	91	5.7	4.0	3.3
28		22	1010	1550	295	265	536	370	84	5.7	4.5	3.3
29		25	770	1080	282	262	487	342	74	5.3	4.9	3.3
30		26	556	866		260	478	330	64	5.3	5.1	3.3
31		—	497	745	=	262	—	321	—	5.1	4.5	—
Mean	0	19.1	917	737	364	250	372	502	180	19.1	5.0	3.8
Ac-Ft	0	1130	56390	45330	20950	15370	22140	30870	10740	1180	308	228

Maximum Discharge	Water Year Of Record	27,000 c.f.s. December 23, 1955 27,000 c.f.s. December 23, 1955	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year	110100 204600

U. S. Geological Survey and Department of Water Resources cooperative station located one mile above the head of Porter Slough and two miles below the junction of South Fork Tule River. Drainage area is 395 square miles. Period of record October 1944 to date. Records computed by U. S. Geological Survey.

TABLE 175

TULE RIVER NEAR PORTERVILLE

Date	Daily Mean Flow in Second-Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1	0.1	4.6	111	362	540	193	245	361	269	58	12	7.0
2	0.1	4.6	152	323	470	195	228	345	260	55	13	6.5
3	0.1	5.5	70	290	430	202	210	369	240	54	14	6.5
4	0.1	5.5	55	265	420	210	198	550	231	53	13	6.5
5	0.1	5.9	45	245	405	215	202	502	226	50	12	6.8
6	0.1	5.9	399	230	395	200	208	448	205	48	13	6.8
7	0.1	5.9	323	220	380	190	205	416	200	46	13	6.5
8	0.1	6.4	129	206	365	188	205	385	190	45	13	6.5
9	0.3	5.5	486	197	350	190	208	506	184	43	13	6.5
10	0.3	5.5	244	188	335	200	205	520	179	41	13	6.2
11	0.4	5.7	152	186	325	202	242	484	170	39	11	5.4
12	0.4	6.6	118	188	310	198	369	475	154	37	11	5.4
13	0.5	7.1	102	176	295	190	373	421	150	37	10	5.4
14	0.5	30	92	172	280	186	294	377	146	36	10	5.4
15	0.4	29	84	174	265	177	263	357	144	31	10	5.8
16	0.5	24	78	248	255	174	304	338	136	30	10	5.8
17	0.6	26	70	204	240	179	300	342	125	32	10	6.5
18	0.7	28	68	188	225	184	317	338	119	31	10	6.5
19	0.7	29	63	178	210	188	304	361	114	31	10	6.5
20	0.8	34	59	180	195	188	310	345	110	31	9.2	8.0
21	1.1	46	60	192	184	193	304	365	112	33	8.8	9.2
22	1.1	57	376	184	184	195	297	394	105	30	9.2	8.8
23	1.1	38	9090	380	251	198	300	416	95	26	8.4	8.8
24	1.3	31	2230	388	291	208	291	421	90	24	7.8	8.0
25	1.7	29	1260	3080	234	212	304	385	84	24	7.0	6.5
26	2.0	27	1100	2110	245	220	373	353	82	24	6.8	6.2
27	3.4	28	1180	2380	212	220	498	345	76	21	6.5	5.8
28	4.4	29	840	1250	208	210	408	331	73	20	6.5	5.8
29	3.7	28	608	894	200	208	385	307	69	18	6.5	5.8
30	3.4	28	476	719		205	381	300	64	17	7.0	5.8
31	4.2	—	421	626	—	205	—	288	—	14	7.0	—
Mean	1.1	20.5	663	536	300	198	291	392	147	34.8	10.1	6.6
Ac-Ft	68	1220	40740	32970	17250	12140	17320	24090	8730	2140	618	391

Maximum Discharge	Water Year	24,200 c.f.s. December 23, 1955	Total Runoff in Acre-Feet	1955-Calendar Year	86680
	Of Record	25,500 c.f.s. November 19, 1950		1955-56 Water Year	157700

U. S. Geological Survey and Department of Water Resources cooperative station located at highway bridge one mile above the junction of South Fork Tule River. Drainage area is 261 square miles. Period of record May 1901 to date. Records computed by U. S. Geological Survey.

TABLE 176

DELIVERY FROM FRIANT-KERN CANAL TO TULE RIVER

Date	Daily Mean Flow in Second-Feet Water Year October, 1955 To September, 1956											
	Oct	Nov	Dec	Jan.	Feb.	March	April	May	June	July	Aug	Sept
1			0		0	41	33	19	330	391	596	508
2			0		0	76	0	0	370	397	609	510
3			0		0	84	0	17	394	403	596	510
4			0		0	87	0	64	402	399	583	498
5			0		0	88	0	10	424	405	583	486
6			0		0	88	7.0	41	438	415	583	481
7			0		0	84	30	82	438	415	559	409
8			0		0	80	66	92	438	415	555	379
9			0		0	106	80	88	454	447	555	379
10			0		0	136	80	0	484	447	555	213
11			0		0	146	82	0	441	435	576	53
12			0		0	107	105	0	406	432	583	0
13	N	N	0	N	0	198	28	0	394	432	581	0
14	O	O	0	O	0	224	0	0	379	432	583	0
15			0		0	215	0	0	379	448	486	0
16			0		6.0	209	0	0	379	459	447	0
17	P	P	0	P	17	204	0	0	394	445	447	0
18	L	L	0	L	31	204	0	23	411	429	454	0
19	O	O	0	O	23	204	14	82	450	424	459	0
20	W	W	0	W	21	181	57	113	477	463	549	262
21			0		35	104	13	182	47[illegible]	494	600	495
22			0		45	7	0	224	469	511	594	500
23			•450		53	7	0	213	459	519	581	502
24			•310		51	86	25	158	459	555	583	502
25			0		13	101	70	49	465	544	583	500
26			0		0	114	13	45	465	522	583	495
27			0		0	125	0	117	465	522	583	4[illegible]
28			0		8.0	113	0	200	445	521	563	400
29			0		18	94	38	230	432	521	529	35[illegible]
30			0			59	78	230	406	549	508	165
31		—	[illegible]		—	93	—	242	—	5[illegible]5	508	—
Mean	[illegible]	[illegible]	4.[illegible]	[illegible]	11.1	123	27.3	81.3	42[illegible]	463	553	303
Ac-Ft	[illegible]	[illegible]	•1,500	0	[illegible]3	54	1624	5000	25436	28495	34025	18012

Maximum Discharge	Water Year		Total Runoff in Acre-Feet	1955-Calendar Year	96260
	Of Record			1955-56 Water Year	1222[illegible]6

This flow is the delivery from Friant-Kern Canal into Tule River under contract agreements with the U. S. Bureau of Reclamation. This point of delivery is located on the Tule River approximately four miles west of Porterville. Records computed by U. S. Bureau of Reclamation.

• Estimated

TABLE 177

DELIVERY FROM FRIANT-KERN CANAL TO PORTER SLOUGH

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1		1.8			0	7.0		0	0	0	5.4	6.5
2		1.2			0	0		0	0	0	5.4	6.5
3		0			0	0		0	9.0	0	5.4	6.5
4		0			0	0		0	17	0	5.4	5.8
5		0			0	0		0	16	0	5.4	5.0
6		0			0	0		0	15	0	5.8	5.0
7		0			0	0		0	15	0	5.8	5.0
8		0			0	0		0	15	0	5.8	5.0
9		0			0	0		0	15	0	5.8	5.0
10		0			12	16		0	15	0	5.4	5.0
11		0			20	35		0	15	0	2.4	5.0
12		0			29	45		0	16	0	3.5	5.0
13	N	0	N	N	29	54	N	0	16	0	5.8	5.0
14	O	0	O	O	34	74	O	0	16	0	5.8	5.0
15		0			35	67		0	15	0	2.8	5.0
16		0			36	72		0	15	0	0	5.0
17	F	0	F	F	34	74	F	0	15	0	1.8	5.0
18	L	0	L	L	30	74	L	0	15	0	4.3	5.0
19	O	0	O	O	30	74	O	0	15	0	5.4	5.0
20	W	0	W	W	31	74	W	0	15	0	5.4	5.0
21		0			32	67		0	15	0	5.4	7.3
22		0			26	67		0	15	0	5.4	7.3
23		0			21	70		0	15	0	4.6	7.3
24		0			20	74		32	15	3.5	5.4	7.3
25		0			20	80		74	15	5.8	8.9	7.7
26		0			21	74		95	15	5.8	11	7.7
27		0			21	66		26	15	5.8	11	7.7
28		0			19	17		0	5.0	5.8	13	7.7
29		0			19	0		0	0	5.8	14	7.7
30		0				0		0	0	5.4	14	7.7
31		—			—	0	—	0	—	5.4	10	—
Mean	0	0.1	0	0	17.9	38.1	0	7.3	12.4	1.4	6.3	6.0
Ac-Ft	0	6	0	0	1029	2343	0	450	754	86	388	358

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	515
			1955 - 56 Water Year	5414

This flow is the delivery from Friant-Kern Canal into Porter Slough under contract agreement with the U. S. Bureau of Reclamation. This point of delivery is at the intersection of Porter Slough with the Friant-Kern Canal approximately four miles west of Porterville. Records computed by U. S. Bureau of Reclamation.

TABLE 178

TULE RIVER AT TURNBULL STATION

Date	Daily Mean Flow in Second - Feet Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1			0	523	678	2.7	4.6	2.0	182			
2			0	366	588	1.0	5.0	1.1	211			
3			0	226	521	0.3	4.6	0	178			
4			0	124	453	0.2	2.2	0	245			
5			0	27	320	0.1	0.4	0	230			
6			0	9.3	285	1.1	0.4	0	258			
7			0	8.2	272	5.3	1.8	0	229			
8			0	7.7	261	12	1.6	0.5	208			
9			0	6.9	276	12	0.9	0	222			
10			0	7.7	173	7.9	0	0	223			
11			0	6.6	67	5.5	0	0	283			
12			0	3.7	52	3.5	0.3	0	208			
13	N	N	0	3.9	12	0.3	1.3	0	128	N	N	N
14	O	O	0	3.9	12	0	1.4	0	36	O	O	O
15			0	1.1	8.8	0	1.2	1.2	3.0			
16			0	0.2	12	0	1.1	4.4	0			
17	F	F	0	0	11	0	0.7	0.9	0	F	F	F
18	L	L	0	0	9.6	0	0.4	0	0	L	L	L
19	O	O	0	0.2	9.1	0	0.6	0	26	O	O	O
20	W	W	0	5.5	8.8	0	0.1	0	0.1	W	W	W
21			0	5.0	3.4	0	0	0	0			
22			0	4.8	0.1	0	0.5	1.5	15			
23			0	4.8	0	0	3.5	16	0			
24			914	8.5	0	0	6.9	28	0			
25			1940	231	0.7	0	3.9	142	0			
26			1910	1160	11	0	20	219	0			
27			1620	1720	14	0	43	19	0			
28			1460	1970	9.1	4.3	38	0.4	0			
29			1300	1740	4.4	12	14	156	0			
30			1020	1180		10	4.6	232	0			
31		—	682	830	—	6.6	—	141	—			—
Mean	0	0	350	328	140	2.7	5.4	31.1	96.2	0	0	0
Ac-Ft	0	0	21510	20200	8077	168	323	1910	5722	0	0	0

Maximum Discharge	Water Year 2,090 c.f.s. December 25, 1955 Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	21590
			1955 - 56 Water Year	57910

Department of Water Resources and U. S. Bureau of Reclamation cooperative atation located 1,200 feet below the Corcoran-Angiola Highway bridge, 39.2 miles below the junction of South Fork Tule River. Tule River is a tributary to the Tulare Lake area. At times the flows are a combination of direct Tule River water, Kaweah River water via Elk Bayou, and Kings River water via Homeland Canal, and waste water from Tulare Irrigation District. Period of record 1942 to date. Records computed by Department of Water Resources.

TABLE 179

KERN RIVER NEAR BAKERSFIELD

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1	242	168	300	560	649	738	897	1325	1550	2219	1864	937
2	207	169	416	632	588	765	841	1428	1543	2056	1835	919
3	196	172	323	622	607	741	768	1450	1548	1981	1836	911
4	187	172	273	618	564	779	774	1413	1563	2057	1837	897
5	179	175	260	621	643	777	782	1374	1595	2088	1839	889
6	175	178	362	632	642	748	772	1378	1627	2054	1842	907
7	155	190	583	624	602	766	745	1387	1660	2060	1897	932
8	151	258	497	620	605	800	698	1507	1745	2095	1879	944
9	150	265	451	624	608	825	694	1617	1808	2124	1869	936
10	149	264	598	613	606	992	727	1597	1793	2112	1880	835
11	154	255	494	603	602	1055	775	1605	1727	2085	1921	927
12	164	256	459	593	604	1089	776	1614	1687	2078	1991	917
13	158	261	426	586	609	1203	664	1610	1814	2085	1995	880
14	159	277	400	594	780	1268	642	1564	2105	2092	2008	888
15	163	212	385	591	797	1364	623	1520	2153	2076	2040	903
16	162	206	367	603	800	1444	616	1550	2154	1998	2062	887
17	167	227	351	605	798	1396	626	1590	2257	1983	2060	843
18	166	245	347	604	775	1337	725	1631	2248	1989	2047	862
19	162	229	331	601	778	1293	737	1662	2230	1968	2019	888
20	165	248	308	597	765	1246	730	1699	2219	1935	2024	891
21	167	265	317	590	764	1102	738	1700	2210	2036	1950	904
22	172	284	345	597	761	1002	727	1626	2166	2152	1031	910
23	174	241	498	603	778	999	758	1530	2185	2030	966	871
24	164	234	584	616	804	1005	720	1487	2239	1972	926	804
25	161	231	588	852	793	999	990	1514	1986	1852	912	829
26	157	225	585	1287	778	981	1211	1531	1278	1836	911	851
27	163	233	608	1297	771	984	1250	1559	2250	1940	913	788
28	167	237	560	793	757	970	1283	1552	2308	1970	929	773
29	169	240	480	724	703	1005	1283	1599	2273	1865	957	775
30	169	239	490	691		1012	1279	1631	2274	1863	958	768
31	169	—	497	668	—	966	—	1589	—	1869	961	—
Mean	169	229	435	673	701	1021	828	1543	1940	2017	1618	876
Ac-Ft	10400	13600	26740	41377	40326	62779	49291	94887	115428	124007	99489	52098

Maximum Discharge	Water Year Of Record	Total Runoff in Acre - Feet	1955 - Calendar Year	367800
			1955 - 56 Water Year	730400

Kern County Land Company station located five miles northeast of Bakersfield. Also known as "Kern River at First Point". Drainage area is 2,420 square miles. Kern River water enters the Tulare Lake area via Buena Vista Slough and Goose Lake Slough. Period of record 1893 to date. All flows in this table are computed from noon to noon beginning at noon of day shown.

TABLE 180

TULARE LAKE - DAILY ELEVATIONS

Date	Daily Elevation in Feet (a)											
	Oct.	Nov	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1				184.32	187.56	186.61	182.80					
2				184.45	187.66	186.57	182.70					
3				184.55	187.75	186.45	182.60					
4				184.65	187.80	186.39	182.52					
5				184.70	187.82	186.20	182.30					
6				184.72	187.82	186.18	182.19					
7				184.75	187.83	186.10	182.00					
8				184.75	187.85	186.00	181.90					
9				184.73	187.86	185.92	181.80					
10				184.71	187.88	185.80	181.70					
11				184.69	187.84	185.64	181.50					
12	Lake dry except for			184.65	187.78	185.56	181.30					
13				184.62	187.74	185.48	181.10					
14	figures shown			184.52	187.70	185.36	181.10					
15				184.44	187.60	185.24	180.90					
16				184.38	187.56	185.10	180.70					
17				184.30	187.46	184.96	180.50					
18				184.22	187.46	184.82	180.00					
19				184.16	187.40	184.62	180.00					
20				184.11	187.30	184.45						
21				184.03	187.24	184.36						
22				183.95	187.16	184.25						
23				183.91	187.08	184.14						
24			*180.00	183.88	187.00	184.00						
25			180.50	183.85	186.90	183.80						
26			180.80	184.35	186.82	183.65						
27			181.00	184.85	186.76	183.50						
28			181.30	185.35	186.70	183.45						
29			181.60	186.24	186.64	183.30						
30			181.90	187.12		183.10						
31		—	182.20	187.40	—	182.98	—		—			—

Tulare Lake Basin Water Storage District station located approximately six miles southwest of Corcoran on the south end of El Rico Bridge. Records are available at this and other sites from 1937 to date.

(a) U. S. Geological Survey datum

* Water began entering lake 10:00 pm December 24, 1955.

TABLE 181

SUMMARY OF WATER UTILIZATION OF SACRAMENTO-SAN JOAQUIN VALLEYS

	Year	Acreage (c) General	Acreage (c) Rice	Acreage (c) Total	Diversion Acre-Feet Mar.-Oct.	Irrigation Draft Average c.f.s. July	Gross Duty of Water Ac. Ft. per Acre	Gross Duty of Water Acres per Sec. Ft.	Runoff in % of Averages (d) Sacto. R. at Red Bluff
							(a)	(a)	
Sacramento River Redding to Sacramento	1947	121600	124000	245600	1707000	5600	6.8	71	63
	1948	149700	124100	273800	1593000	5947	5.7	85	95
	1949	143500	137300	280800	1873000	6344	6.6	74	75
	1950	152800	108500	261300	1794000	5944	6.7	72	71
	1951	162200	140800	303000	1975000	6653	6.4	76	113
	1952	142900	139100	282000	1805000	5987	6.3	77	143
	1953	134900	164600	299500	2018000	6829	6.6	73	120
	1954	139800	184900	324700	2091000	7301	6.3	77	115
	1955	165700	136400	302100	2096000	6796	6.8	71	70
	1956	155600	122600	278200	1852000	6429	6.5	74	164
	Avg. 1947 to 1956	146900	138200	285100	1880000	6383	6.5	75	103
									Sacto. R. at Red Bluff
Colusa Basin Drain above Highway 20 Bridge	1947	1040	6570	7610	80500	281	(b) 10.6	(b) 46	63
	1948	3250	4740	7990	67500	275	8.4	58	95
	1949	3140	5560	8700	90200	310	10.4	47	75
	1950	4930	5160	10080	108100	353	10.7	45	71
	1951	4050	6640	10690	130200	417	12.2	40	113
	1952	5140	7280	12420	162300	519	13.1	37	143
	1953	3520	11010	14530	175000	618	12.0	40	120
	1954	2810	11790	14600	198800	706	13.6	36	115
	1955	4940	6970	11910	156600	509	13.1	37	70
	1956	4980	5080	10060	136700	461	13.7	36	164
	Avg. 1947 to 1956	3780	7080	10860	130600	445	12.0	40	103
									Sacto. R. at Red Bluff
Colusa Basin Drain Knights Landing Outfall Gates to Highway 20 Bridge	1947	2300	9040	11340	73900	254	6.5	75	63
	1948	2460	7080	9540	59100	257	6.2	78	95
	1949	1270	9000	10270	69500	230	6.8	72	75
	1950	3230	5920	9150	64400	203	7.0	69	71
	1951	2860	6970	9830	73500	241	7.5	65	113
	1952	2700	5900	8600	73000	295	8.5	57	143
	1953	3070	6400	9470	79100	284	8.4	58	120
	1954	2470	5200	7670	71600	296	9.3	52	115
	1955	3730	4000	7730	68300	261	8.8	55	70
	1956	4770	4260	9030	53500	200	5.9	82	164
	Avg. 1947 to 1956	2890	6380	9270	68600	252	7.4	66	103
									Sacto. R. at Red Bluff
Yolo Bypass and Knights Landing Ridge Cut	1947	3220	2980	6200	27200	110	4.4	111	63
	1948	1710	2260	3970	27800	93	7.0	69	95
	1949	1740	2150	3890	34600	83	8.9	55	75
	1950	1650	1920	3570	29300	84	8.2	59	71
	1951	3650	3360	7010	40700	141	5.8	84	113
	1952	3770	540	4310	12200	40	2.8	172	143
	1953	2510	2240	4750	23500	80	4.9	96	120
	1954	3960	2850	6810	44900	192	6.6	74	115
	1955	5110	3090	8200	41400	161	5.0	96	70
	1956	3710	1060	4770	16600	70	3.5	140	164
	Avg. 1947 to 1956	3100	2240	5340	29800	105	5.6	87	103
									Feather R. near Oroville
Lower Butte Creek and Butte Slough	1947	4520	1120	5640	19800	58	3.5	138	57
	1948	4650	660	5310	27600	106	5.2	93	87
	1949	7140	1880	9020	65200	205	7.2	67	59
	1950	7200	1540	8740	50500	187	5.8	84	87
	1951	6980	1700	8680	53400	206	6.2	79	128
	1952	8660	2850	11510	52400	181	4.6	107	179
	1953	6940	2560	9500	49400	218	5.2	93	117
	1954	8170	3880	12050	63800	247	5.3	92	95
	1955	8370	3180	11550	54800	226	4.7	102	56
	1956	8520	2900	11420	50400	192	4.4	110	180
	Avg. 1947 to 1956	7120	2230	9350	48700	183	5.2	93	104

(a) Excluding municipal diversions, the City of Sacramento, and the City of Redding.
(b) Includes an undetermined amount of water used by cooperative plants and is not indicative of use.
(c) Acreage prior to 1956 reported for calendar year. 1956 acreage reported for November 1955 through October 1956.
(d) Runoff reported for water year, October through September.

TABLE 181

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

	Year	Acreage (c) General	Acreage (c) Rice	Acreage (c) Total	Diversion Acre-Feet Mar.-Oct.	Irrigation Draft Average c.f.s. July	Gross Duty of Water Ac. Ft. per Acre	Gross Duty of Water Acres per Sec. Ft.	Runoff in % of Average (d) Feather R. near Oroville
East and West Borrow Pits of Sutter By-Pass and Sacramento Slough	1947	8840	3210	12050	48400	180	4.0	121	57
	1948	7920	2640	10560	36200	149	3.4	142	87
	1949	8300	6180	14480	77600	252	5.4	91	59
	1950	11650	4480	16130	89100	329	5.5	88	87
	1951	11120	6110	17230	103200	405	6.0	81	128
	1952	10060	5580	15640	78400	284	5.0	97	179
	1953	11080	7450	18530	109700	440	5.9	82	117
	1954	11420	7990	19410	125300	477	6.5	75	95
	1955	11580	6180	17760	108000	393	6.1	80	56
	1956	11750	4910	16660	94800	369	5.7	85	180
	Avg. 1947 to 1956	10370	5470	15840	87100	328	5.5	88	104
									Feather R. near Oroville
Feather River Mouth to Oroville Bridge	1947	28300	49700	78000	674000	2245	8.6	56	57
	1948	29500	43300	72800	586000	2292	8.0	60	87
	1949	31000	51100	82100	716000	2241	8.7	56	59
	1950	34000	41300	75300	662000	2229	8.8	55	87
	1951	31200	56500	87700	727000	2319	8.3	59	128
	1952	30300	57900	88200	727000	2438	8.2	59	179
	1953	29100	64100	93200	792000	2640	8.5	57	117
	1954	28900	64800	93700	757000	2612	8.1	60	95
	1955	34400	47700	82100	733000	2178	8.9	54	56
	1956	32900	43600	76500	706000	2259	9.2	53	180
	Avg. 1947 to 1956	31000	52000	83000	708000	2345	8.5	57	104
									Yuba R. at Smartville
Yuba River Mouth to Smartville	1947	8280	3630	11910	100100	282	8.4	58	59
	1948	8720	3120	11840	92800	281	7.8	62	87
	1949	8840	3300	12140	106800	316	8.8	55	64
	1950	10000	2640	12640	127400	342	10.1	48	96
	1951	9640	3420	13060	110300	313	8.4	58	153
	1952	9800	3600	13400	131800	362	9.8	49	178
	1953	9120	5300	14420	133100	362	9.2	53	110
	1954	8640	6080	14720	140600	448	9.6	51	83
	1955	9100	4690	13790	143100	512	10.4	47	55
	1956	9870	4840	14710	161500	476	11.0	44	171
	Avg. 1947 to 1956	9200	4060	13260	124800	369	9.4	52	106
									American R. at Fair Oaks
American River Mouth to Fair Oaks	1947	3670		3670	5910	19	1.7 (a)	291 (a)	52
	1948	3630		3630	5880	28	1.9	255	83
	1949	3860		3860	5510	24	2.6	186	68
	1950	4000		4000	4600	18	2.5	192	98
	1951	4830		4830	5450	21	2.0	249	171
	1952	4560		4560	3950	17	1.7	293	183
	1953	4570		4570	4860	23	1.6	297	98
	1954	4630		4630	7250	32	1.3	368	74
	1955	4440		4440	4710	21	1.1	440	58
	1956	4560		4560	6760	27	2.7	180	172
	Avg. 1947 to 1956	4280		4280	5490	23	1.9	256	106
									Sacto. R. at Sacramento
Sacramento River System Sacramento River and Tributaries	1947	181800	200200	382000	2737000	9029	7.1 (b)	68 (b)	59
	1948	211500	187900	399400	2496000	9428	6.2	78	90
	1949	208800	216500	425300	3038000	10005	7.1	68	68
	1950	229500	171400	400900	2929000	9689	7.3	67	82
	1951	236500	225500	462000	3219000	10716	6.9	70	131
	1952	217900	222700	440600	3046000	10123	6.9	71	163
	1953	204900	263700	468500	3385000	11494	7.2	67	115
	1954	211800	287500	498300	3500000	12311	7.0	69	100
	1955	247400	212200	459600	3406000	11057	7.4	66	63
	1956	231700	189200	425900	3078000	10483	7.2	68	171
	Avg. 1947 to 1956	218600	217700	436300	3083000	10434	7.0	69	104

(a) Excludes diversion and acreage of Carmichael Irrigation District.
(b) Excludes municipal and Carmichael Irrigation District diversions and acreage of Carmichael Irrigation District.
(c) Acreage prior to 1956 reported for calendar year. 1956 acreage reported for November 1955 through October 1956.
(d) Runoff reported for water year, October through September.

TABLE 181

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

	Year	Acreage (c) General	Acreage (c) Rice	Acreage (c) Total	Diversion Acre-Feet Mar.-Oct.	Irrigation Draft Average c.f.s. July	Gross Duty of Water Ac. Ft. per Acre	Gross Duty of Water Acres per Sec. Ft.	Runoff in % of Average (d) San Joaquin R. near Vernalis
Old San Joaquin River Delta Uplands (a)	1947	37860		37860	98600	313	2.6	187	59
	1948	40300		40300	98100	315	2.4	200	73
	1949	42190		42190	108300	332	2.6	189	66
	1950	40230		40230	116300	362	2.9	168	81
	1951	40110		40110	105200	344	2.6	185	126
	1952	39150		39150	94800	334	2.4	201	167
	1953	41260		41260	118800	355	2.9	169	75
	1954	40740		40740	131200	393	3.2	151	74
	1955	41520		41520	130600	405	3.1	154	61
	1956	41660		41660	118600	400	2.8	171	171
	Avg. 1947 to 1956	40500		40500	112000	355	2.8	174	95
									San Joaquin R. near Vernalis
Tom Paine Slough Delta Uplands	1947	5280	550	5830	20000	61	3.4	142	59
	1948	5080	470	5550	20200	70	3.6	134	73
	1949	5210	380	5590	23300	70	4.2	117	66
	1950	5220	360	5580	20400	63	3.7	133	81
	1951	4750	410	5160	22600	71	4.4	111	126
	1952	5210		5210	18800	68	3.6	135	167
	1953	5390		5390	21300	65	4.0	123	75
	1954	5470		5470	22800	73	4.2	117	74
	1955	5520		5520	23000	66	4.2	117	61
	1956	5430		5430	21000	57	3.9	126	171
	Avg. 1947 to 1956	5260	220	5480	21300	66	3.9	125	95
									San Joaquin R. near Vernalis
San Joaquin River Stockton to Vernalis Delta Uplands	1947	25120		25120	84500	251	3.4	144	59
	1948	25550		25550	66600	226	2.6	186	73
	1949	26950		26950	78600	243	2.9	167	66
	1950	26600		26600	84600	277	3.2	153	81
	1951	26610		26610	74900	242	2.8	173	126
	1952	24750		24750	58700	199	2.4	205	167
	1953	27270		27270	85800	295	3.1	154	75
	1954	27360		27360	87500	299	3.2	152	74
	1955	27630		27630	94100	301	3.4	143	61
	1956	27400		27400	74200	266	2.7	179	171
	Avg. 1947 to 1956	26520		26520	79000	260	3.0	162	95
									San Joaquin R. near Vernalis
San Joaquin River Vernalis to Fremont Ford Bridge	1947	43080	1360	44440	181400	554	4.1	119	59
	1948	46380	540	46920	144800	471	3.1	157	73
	1949	45780	620	46400	166900	551	3.6	135	66
	1950	48110	390	48500	175100	537	3.6	135	81
	1951	48740	730	49470	172700	571	3.5	139	126
	1952	47400	620	48020	147300	508	3.1	158	167
	1953	51640	1500	53140	205900	673	3.9	125	75
	1954	49990	2480	52470	200900	618	3.8	127	74
	1955	50840	720	51560	193200	595	3.7	130	61
	1956	52030	540	52570	171300	556	3.3	149	171
	Avg. 1947 to 1956	48400	950	49350	175900	563	3.6	135	95
									Merced R. at Exchequer
Merced River Mouth to below Snelling (b)	1947	5910		5910	21100	71	3.6	136	58
	1948	6490		6490	17800	80	2.7	177	70
	1949	7940		7940	25600	92	3.2	151	65
	1950	7910		7910	23900	78	3.0	161	73
	1951	8090		8090	22200	78	2.7	177	124
	1952	7460		7460	18100	64	2.4	200	160
	1953	7430		7430	29700	103	4.0	122	63
	1954	8390		8390	29300	113	3.5	139	68
	1955	8580		8580	30300	99	3.5	138	54
	1956	8070		8070	22900	87	2.8	171	172
	Avg. 1947 to 1956	7630		7630	24100	86	3.2	152	91

(a) Excluding diversions and acreage irrigated by Delta-Mendota and Contra Costa Canals
(b) Excluding diversion and acreage of Merced Irrigation District.
(c) Acreage prior to 1956 reported for calendar year. 1956 acreage reported for November 1955 through October 1956.
(d) Runoff reported for water year, October through September

TABLE 181

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

	Year	Acreage (d) General	Acreage (d) Rice	Acreage (d) Total	Diversion Acre-Feet Mar.-Oct.	Irrigation Draft Average c.f.a. July	Gross Duty of Water Ac. Ft. per Acre	Gross Duty of Water Acres per Sec. Ft.	Runoff in % of Average (e) Tuolumne R. near La Grange
Tuolumne River	1947	3760		3760	7470	20	2.0	245	59
	1948	3740		3740	6230	21	1.7	292	76
	1949	4410		4410	6440	18	1.5	333	68
Mouth	1950	4690		4690	6100	18	1.3	374	84
	1951	4500		4500	4620	14	1.0	473	134
to	1952	4790		4790	5080	18	1.1	458	165
	1953	5280	120	5400	11350	34	2.1	231	83
La Grange Dam	1954	5760	140	5900	14610	50	2.5	196	78
	1955	6290		6290	14430	45	2.3	212	61
(a)	1956	5980		5980	8370	26	1.4	347	178
	Avg. 1947 to 1956	4920	30	4950	8470	26	1.7	286	99
									Stanislaus R. below Melones
Stanislaus River	1947	6600		6600	30100	88	4.6	107	55
	1948	7920		7920	29700	99	3.8	130	77
	1949	8550		8550	34000	106	4.0	122	64
Mouth	1950	8440		8440	33400	102	4.0	123	93
	1951	8340		8340	34700	99	4.2	117	146
to	1952	7770		7770	30200	91	3.9	125	165
	1953	8900		8900	42500	136	4.8	102	83
Goodwin Dam	1954	9290		9290	44100	129	4.7	102	77
	1955	10040		10040	46100	134	4.6	106	59
(b)	1956	9150		9150	42000	131	4.6	106	162
	Avg. 1947 to 1956	8500		8500	36700	112	4.3	113	98
									San Joaquin R. near Vernalis
	1947	127600	1900	129500	443000	1358	3.4	142	59
	1948	135500	1000	136500	383000	1282	2.8	173	73
San Joaquin River System	1949	141000	1000	142000	443000	1412	3.1	156	66
	1950	141200	800	142000	460000	1437	3.2	150	81
San Joaquin River	1951	141100	1200	142300	437000	1419	3.1	158	126
	1952	136500	600	137100	373000	1282	2.7	179	167
Stockton-Fremont Ford	1953	147200	1600	148800	515000	1661	3.5	140	75
	1954	147000	2600	149600	530000	1675	3.5	137	74
Bridge and Tributaries	1955	150400	700	151100	532000	1645	3.5	138	61
	1956	149700	500	150200	458000	1523	3.1	157	171
	Avg. 1947 to 1956	141700	1200	142900	457000	1469	3.2	152	95
									Sacramento R. and San Joaquin R. to Delta
Combined above Delta							(c)	(c)	
Sacramento River	1947	309400	202100	511500	3180000	10387	6.2	79	59
and Tributaries	1948	347000	188900	535900	2879000	10710	5.3	91	86
	1949	349800	217500	567300	3481000	11417	6.1	80	68
and	1950	370700	172200	542900	3389000	11126	6.2	78	83
	1951	377600	226700	604300	3656000	12135	6.0	81	131
San Joaquin River	1952	354400	223300	577700	3419000	11405	5.9	82	164
	1953	352000	265300	617300	3900000	13155	6.3	77	104
Stockton-Fremont Ford	1954	357800	290100	647900	4030000	13986	6.2	78	92
	1955	397800	212900	610700	3938000	12702	6.4	76	62
Bridge and Tributaries	1956	386400	189700	576100	3536000	12006	6.1	80	171
	Avg. 1947 to 1956	360300	218900	579200	3541000	11903	6.1	80	102

(a) Excluding diversion and acreage of Modesto, Turlock, and Waterford Irrigation Districts.
(b) Excluding diversion and acreage of South San Joaquin and Oakdale Irrigation Districts.
(c) Excluding municipal and Carmichael Irrigation District diversions and acreage of Carmichael Irrigation District.
(d) Acreage prior to 1956 reported for calendar year. 1956 acreage reported for November 1955 through October 1956.
(e) Runoff reported for water year, October through September.

TABLE 182

AVERAGE MONTHLY DIVERSIONS IN PER CENT OF SEASONAL TOTAL FOR SACRAMENTO AND SAN JOAQUIN VALLEY STREAMS

	Period of Record	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
SACRAMENTO VALLEY									
Sacramento River - Redding to Sacramento	1947 to 1956	0.7	8.7	17.5	18.3	20.9	19.6	10.4	3.9
Feather River - Oroville to Mouth	1947 to 1956	0.5	7.0	18.6	19.6	20.4	18.0	10.5	5.4
Yuba River - Smartville to Mouth	1947 to 1956	0.2	6.6	16.7	17.2	18.2	17.6	13.7	9.8
American River - Fair Oaks to Mouth	1947 to 1956	1.0	2.6	8.1	20.8	25.7	21.0	15.0	5.8
DELTA UPLANDS									
Old San Joaquin River	1947 to 1956	4.0	11.0	15.8	17.5	19.4	17.1	10.7	4.5
Tom Paine Slough	1947 to 1956	3.8	10.6	13.4	15.6	19.1	19.0	13.5	5.0
San Joaquin River - Vernalis to Stockton	1947 to 1956	5.6	13.6	13.5	15.5	20.2	17.3	10.2	4.1
SAN JOAQUIN VALLEY									
San Joaquin River - Fremont Ford Bridge to Vernalis	1947 to 1956	6.4	13.9	14.4	15.8	19.7	16.9	10.2	2.7
Merced River - Snelling to Mouth	1947 to 1956	3.3	8.3	12.7	17.6	22.1	18.6	12.6	4.8
Tuolumne River - LaGrange Dam to Mouth	1947 to 1956	5.2	8.4	13.3	17.0	19.1	19.2	12.5	5.3
Stanislaus River - Goodwin Dam to Mouth	1947 to 1956	4.1	9.8	14.0	16.6	18.7	18.3	12.4	6.1

TABLE 183

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1947 to 1956

SACRAMENTO RIVER - SACRAMENTO TO REDDING

Year (a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1947	2743	167131	346326	313389	344334	326100	170785	36296	1707104
1948	53935	16451	251478	271737	365701	351666	217464	65042	1593474
1949	2389	167438	344764	349497	390112	359905	173367	85391	1872863
1950	3072	187703	336767	321253	365503	333194	172902	73766	1794160
1951	6356	254102	303045	380961	409062	373947	177260	69993	1974726
1952	2469	110037	319610	339591	368122	370312	213291	81215	1804647
1953	14102	232604	317154	330664	419918	390251	226040	87431	2018164
1954	2935	96488	402233	407508	448928	409637	242008	81313	2091050
1955	30835	247756	360053	378179	417899	395077	183419	81863	2095681
1956	13408	157388	307118	350177	395333	369731	175718	82774	1851647
Average Acre-Feet	13224	163710	328855	344296	392491	368042	195225	74508	1880352
Average c.f.s.	215	2751	5348	5786	6383	5985	3281	1212	3869
Monthly Diversion in per cent of seasonal	0.7	8.7	17.5	18.3	20.9	19.6	10.4	3.9	

(a) See 1946 Water Supervision Report for prior years.

TABLE 184

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1947 to 1956

FEATHER RIVER - OROVILLE TO MOUTH

Year (a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1947	90	30240	152827	130731	138055	124426	77161	20873	674403
1948	3181	5717	66373	127596	140904	120658	85122	36722	586273
1949	0	57396	146342	141278	137822	126739	59327	47400	716304
1950	164	35170	138368	134088	137034	113954	65197	38076	662051
1951	18	94369	131356	141610	142619	124035	60440	32875	727322
1952	0	29180	131898	142305	149920	140116	91834	42177	727430
1953	9443	68614	143820	145431	162430	139691	83986	38429	791844
1954	0	14833	140856	155666	160603	142046	94979	48159	757142
1955	7754	92377	139687	140112	133952	118221	61151	39741	732995
1956	12589	65669	125402	128708	138932	126283	67255	41175	706013
Average Acre-Feet	3324	49356	131693	138752	144227	127617	74645	38563	708178
Average c.f.s.	54	829	2142	2332	2346	2075	1254	627	1457
Monthly Diversion in per cent of seasonal	0.5	7.0	18.6	19.6	20.4	18.0	10.5	5.4	

(a) See 1946 Water Supervision Report for prior years.

TABLE 185

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1947 to 1956

YUBA RIVER - SMARTVILLE TO MOUTH

Year (a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1947	0	3820	17316	16339	17364	19152	15577	10517	100085
1948	33	23	12350	13849	17305	17954	16994	14256	92764
1949	0	9062	18933	17288	19416	17890	13338	10920	106847
1950	0	7306	22080	20741	21023	20372	19401	16461	127384
1951	0	13225	20513	19885	19266	17756	12477	7202	110324
1952	0	5959	22828	22537	22231	22622	20056	15580	131813
1953	2	10933	23354	23371	22271	22462	19742	10988	133123
1954	15	0	23630	26960	27574	26512	21088	14784	140563
1955	926	13519	20780	27266	31457	26823	14126	8246	143143
1956	959	18113	26574	26727	29242	27748	18278	13860	161501
Average Acre-Feet	194	8196	20836	21496	22715	21929	17108	12281	124755
Average c.f.s.	3	138	339	361	369	357	287	200	257
Monthly Diversion in per cent of seasonal	0.2	6.6	16.7	17.2	18.2	17.6	13.7	9.8	

(a) See 1946 Water Supervision Report for prior years.

TABLE 186

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1947 to 1956

AMERICAN RIVER - FAIR OAKS TO MOUTH

Year (a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1947	308	422	483	1113	1193	1086	1071	237	5913
1948	92	34	209	866	1737	1420	1030	495	5883
1949	0	58	574	1269	1448	1239	724	200	5512
1950	9	128	546	1096	1110	819	584	307	4599
1951	4	52	450	1194	1297	1404	829	217	5447
1952	0	20	439	824	1073	810	583	204	3953
1953	62	117	227	936	1386	1100	706	328	4862
1954	20	262	671	1597	1927	1239	1092	446	7254
1955	25	120	264	1094	1278	998	642	290	4711
1956	31	238	564	1428	1683	1405	945	467	6761
Average Acre-Feet	55	145	443	1142	1413	1152	821	319	5490
Average c.f.s.	1	2	7	19	23	19	14	5	11
Monthly Diversion in per cent of seasonal	1.0	2.6	8.1	20.8	25.7	21.0	15.0	5.8	

(a) See 1946 Water Supervision Report for prior years.

TABLE 187

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1947 to 1956

OLD SAN JOAQUIN RIVER (a) - DELTA UPLANDS

Year (a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1947	1637	15687	18983	15788	19269	14525	9633	3105	98627
1948	9279	3099	16258	13796	19366	18878	12142	5331	98149
1949	343	15999	19756	18892	20406	16134	10718	6026	108274
1950	6009	15315	18832	18626	22274	19021	12010	4258	116345
1951	202	9746	18249	21022	21130	19784	11329	3706	105168
1952	3	2613	16903	19368	20557	18572	10763	5992	94771
1953	11193	16174	15312	17467	21803	19666	12693	4446	118754
1954	6164	17966	19952	22634	24152	19953	13157	7271	131249
1955	4536	16165	16801	24519	24118	23045	15512	5863	130559
1956	5840	10620	15922	23341	24622	22063	12206	3982	118596
Average Acre-Feet	4521	12338	17697	19545	21770	19164	12016	4998	112049
Average c.f.s.	74	207	288	328	354	312	202	81	231
Monthly Diversion in per cent of seasonal	4.0	11.0	15.8	17.5	19.4	17.1	10.7	4.5	

(a) See 1946 Water Supervision Report for prior years.

TABLE 188

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1947 to 1956

TOM PAINE SLOUGH - DELTA UPLANDS

Year (a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1947	74	3064	3136	3319	3735	3487	2816	414	20045
1948	629	998	2795	2866	4327	4222	3422	953	20212
1949	155	3534	3114	3570	4324	4017	3226	1362	23302
1950	737	2286	3081	3163	3860	3542	2601	1147	20417
1951	81	2321	3434	3581	4371	4653	3261	886	22588
1952	27	1309	3639	2766	4198	3658	2253	972	18822
1953	2138	2674	1944	3019	3967	3973	2651	972	21338
1954	1394	2711	2588	3627	4515	4155	2477	1371	22838
1955	1290	2139	2625	3785	3925	4723	3320	1217	23024
1956	1686	1563	2168	3671	3532	4048	2881	1415	20964
Average Acre-Feet	821	2260	2852	3337	4075	4048	2891	1071	21355
Average c.f.s.	13	38	46	56	66	66	49	17	44
Monthly Diversion in per cent of seasonal	3.8	10.6	13.4	15.6	19.1	19.0	13.5	5.0	

(a) See 1946 Water Supervision Report for prior years.

TABLE 189

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1947 to 1956

SAN JOAQUIN RIVER - DELTA UPLANDS - STOCKTON TO VERNALIS

Year (a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1947	5322	13358	14176	11626	15454	14698	7794	2053	84481
1948	6012	4564	9919	8251	13912	13356	7911	2682	66607
1949	1227	13434	11893	13141	14933	12382	7857	3768	78635
1950	5746	13092	12205	11860	17047	13272	7855	3558	84635
1951	279	12239	11485	13346	14860	12649	6840	3181	74879
1952	6	3791	10315	9465	12254	12353	7128	3401	58713
1953	8000	13547	8883	10603	18110	14630	8835	3162	85770
1954	6711	11821	9550	14980	18362	13284	8677	4164	87549
1955	5806	12274	10771	16350	17931	16817	10377	3767	94093
1956	4792	9271	7758	13115	16377	13163	7387	2382	74245
Average Acre-Feet	4390	10739	10696	12274	15924	13660	8066	3212	78961
Average c.f.s.	71	180	174	206	259	222	136	52	162
Monthly Diversion in per cent of seasonal	5.6	13.6	13.5	15.5	20.2	17.3	10.2	4.1	

(a) See 1946 Water Supervision Report for prior years.

TABLE 190

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1947 to 1956

SAN JOAQUIN RIVER - VERNALIS TO FREMONT FORD BRIDGE

Year (a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1947	11658	31645	28072	27725	34079	27812	17318	3049	181358
1948	12902	18449	21675	15491	28962	27906	15977	3423	144785
1949	852	27448	26456	27787	33889	26998	18376	5054	166860
1950	15118	26342	25420	26245	33028	28227	15748	4963	175091
1951	4051	30310	24320	27237	35082	30422	16901	4333	172656
1952	1296	7960	28045	25635	31266	28604	18859	5647	147312
1953	19238	29188	24061	30965	41370	34336	21614	5175	205947
1954	13925	27822	28115	32625	37998	32287	21503	6587	200862
1955	16991	24516	25997	32704	36571	32157	18912	5308	193156
1956	16097	21905	20312	32034	34197	28499	15026	3232	171302
Average Acre-Feet	11213	24558	25247	27845	34644	29725	18023	4677	175933
Average c.f.s.	182	413	411	468	563	483	303	76	362
Monthly Diversion in per cent of seasonal	6.4	13.9	14.4	15.8	19.7	16.9	10.2	2.7	

(a) See 1946 Water Supervision Report for prior years.

TABLE 191

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1947 to 1956

MERCED RIVER - SNELLING TO MOUTH

Year (a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1947	228	2863	3128	3372	4342	4095	2518	529	21075
1948	931	328	2321	2634	4899	4162	1953	534	17762
1949	62	2479	3696	5296	5676	3652	2998	1778	25637
1950	676	2086	4050	4793	4809	4336	2673	455	23878
1951	161	1590	3347	4572	4825	4298	2678	739	22210
1952	37	242	2370	3177	3962	4402	2833	1098	18121
1953	2482	3687	3293	3928	6343	4975	3310	1681	29699
1954	1115	2515	3296	4850	6950	4491	3677	2361	29255
1955	985	2814	3379	5296	6086	6044	4374	1356	30334
1956	1102	1317	1778	4479	5338	4397	3374	1097	22882
Average Acre-Feet	778	1992	3066	4240	5323	4485	3039	1163	24085
Average c.f.s.	13	33	50	71	87	73	51	19	50
Monthly Diversion in per cent of seasonal	3.3	8.3	12.7	17.6	22.1	18.6	12.6	4.8	

(a) See 1946 Water Supervision Report for prior years.

TABLE 192

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1947 to 1956

TUOLUMNE RIVER - LA GRANGE DAM TO MOUTH

Year (a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1947	283	893	1132	1112	1245	1135	1229	439	7468
1948	299	280	822	889	1275	1404	1032	233	6234
1949	39	645	962	1255	1137	1173	806	423	6440
1950	305	588	970	1107	1121	1170	580	259	6100
1951	154	477	586	979	866	890	503	160	4615
1952	7	139	692	945	1077	1073	687	455	5075
1953	1040	1124	1444	1804	2062	2053	1358	468	11353
1954	594	1195	2204	2326	3082	2861	1573	773	14608
1955	1266	1335	1394	2427	2740	2794	1599	879	14434
1956	439	420	1026	1577	1592	1694	1231	390	8369
Average Acre-Feet	443	710	1123	1442	1620	1625	1060	448	8470
Average c.f.s.	7	12	18	24	26	26	18	7	17
Monthly Diversion in per cent of seasonal	5.2	8.4	13.3	17.0	19.1	19.2	12.5	5.3	

(a) See 1946 Water Supervision Report for prior years.

TABLE 193

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1947 to 1956

STANISLAUS RIVER - GOODWIN DAM TO MOUTH

Year (a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1947	1206	4320	4933	4644	5417	5085	3462	1008	30075
1948	1261	1114	4631	4826	6089	6070	4259	1455	29705
1949	41	4747	4661	6152	6531	5648	4251	1940	33971
1950	1313	3240	5385	5493	6266	6254	4055	1382	33388
1951	1163	3733	5043	6101	6076	6333	4240	1970	34659
1952	0	1872	5063	4746	5604	5963	4076	2921	30245
1953	2939	4416	5247	6266	8375	7241	5005	3056	42545
1954	1732	5372	6032	6724	7949	7914	5419	2969	44111
1955	2812	3877	5658	8105	8267	8757	5413	3197	46086
1956	2082	3234	4792	7824	8039	7718	5167	2554	42010
Average Acre-Feet	1515	3592	5144	6088	6861	6698	4535	2245	36680
Average c.f.s.	25	60	84	102	112	109	76	37	75
Monthly Diversion in per cent of seasonal	4.1	9.8	14.0	16.6	18.7	18.3	12.4	6.1	

(a) See 1946 Water Supervision Report for prior years.

TABLE 194

COMPARATIVE SEASONAL DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER - 1947-1956

Year	River Sections							
	Sacramento to Verona	Verona to Knights Ldg.	Knights Ldg. to Wilkins Slu	Wilkins Slu. to Colusa	Colusa to Butte City	Butte City to Red Bluff	Red Bluff to Redding	Total Sacramento to Redding
1947 Seasonal diversion acre-feet	157490	56993	140736	405829	103476	704544	138036	1707104
Average cubic feet per second	324	117	290	835	213	1450	284	3513
Acreage irrigated - general	13658	2982	11070	33853	4361	38149	17517	121590
Acreage irrigated - rice	13687	2688	12549	31584	7393	56080	0	123981
Acre-feet per acre (a)	4.7	10.1	6.0	6.2	8.8	7.5	7.7	6.8
1948 Seasonal diversion acre-feet	137292	56342	132701	387490	92661	632230	154758	1593474
Average cubic feet per second	283	116	273	797	191	1301	318	3279
Acreage irrigated - general	18117	3947	12685	35760	7860	52944	18421	149734
Acreage irrigated - rice	15145	1568	12125	33503	8299	53477	0	124117
Acre-feet per acre (a)	3.3	10.2	5.3	5.6	5.7	5.9	8.3	5.7
1949 Seasonal diversion acre-feet	182069	69658	189604	396587	96498	758697	179750	1872863
Average cubic feet per second	375	143	390	816	199	1561	370	3854
Acreage irrigated - general	14341	5511	12431	37584	6532	48721	18375	143495
Acreage irrigated - rice	15606	7337	14891	35148	8080	56207	0	137269
Acre-feet per acre (a)	5.1	5.4	6.9	5.5	6.6	7.2	9.6	6.6
1950 Seasonal diversion acre-feet	158567	60217	186229	370134	87246	751503	180264	1794160
Average cubic feet per second	326	124	383	762	180	1546	371	3692
Acreage irrigated - general	15284	4936	12706	39099	11163	50542	19087	152817
Acreage irrigated - rice	10897	5274	13359	26757	9107	43085	0	108479
Acre-feet per acre (a)	4.9	5.9	7.1	5.6	4.3	8.0	9.3	6.7
1951 Seasonal diversion acre-feet	169060	77772	207624	400587	116568	830331	172784	1974726
Average cubic feet per second	348	160	427	824	240	1709	356	4064
Acreage irrigated - general	19516	4905	15151	41097	10307	51394	19863	162233
Acreage irrigated - rice	16665	3434	15061	32823	14243	58609	0	140835
Acre-feet per acre (a)	3.8	9.3	6.9	5.4	4.7	7.5	8.5	6.4
1952 Seasonal diversion acre-feet	132275	66514	158455	410789	102813	754768	179033	1804647
Average cubic feet per second	272	137	326	845	212	1553	368	3714
Acreage irrigated - general	14608	5186	12326	33350	10308	46686	20467	142931
Acreage irrigated - rice	11550	6761	12622	35766	15314	57040	0	139053
Acre-feet per acre (a)	3.9	5.6	6.4	5.9	4.0	7.3	8.6	6.3
1953 Seasonal diversion acre-feet	161622	66976	187614	433445	135071	861665	171771	2018164
Average cubic feet per second	333	138	386	892	278	1773	353	4153
Acreage irrigated - general	14480	3606	12422	29783	10841	41816	22023	134911
Acreage irrigated - rice	13383	6836	14052	37302	19077	73961	0	164611
Acre-feet per acre (a)	4.8	6.4	7.1	6.5	4.5	7.4	7.7	6.6
1954 Seasonal diversion acre-feet	186288	87880	191601	469457	139848	831264	184712	2091050
Average cubic feet per second	383	181	394	966	288	1710	380	4303
Acreage irrigated - general	13158	5394	14449	34667	10712	38114	23312	139806
Acreage irrigated - rice	16532	9840	14631	40093	19644	84198	0	184938
Acre-feet per acre (a)	5.2	5.8	6.6	6.3	4.6	6.8	7.8	6.3
1955 Seasonal diversion acre-feet	183121	77072	196275	426463	130990	881024	200736	2095681
Average cubic feet per second	377	159	404	878	270	1813	413	4312
Acreage irrigated - general	16756	7471	17797	42317	13350	44000	24022	165713
Acreage irrigated - rice	12336	6077	12969	31783	14155	59035	0	136355
Acre-feet per acre (a)	5.2	5.7	6.4	5.8	4.8	8.6	8.2	6.8
1956 Seasonal diversion acre-feet	149394	60911	149259	362915	111384	816985	200799	1851647
Average cubic feet per second	307	125	307	747	229	1681	413	3810
Acreage irrigated - general	17290	7475	13363	37534	12833	43000	24078	155573
Acreage irrigated - rice	10789	5323	10224	28011	13345	54949	0	122641
Acre-feet per acre (a)	4.2	4.8	6.3	5.5	4.3	8.3	8.2	6.6
Average 1947-1956								
Seasonal diversion acre-feet	161718	68034	174010	406370	111656	782301	176264	1880352
Average cubic feet per second	333	140	358	836	230	1610	363	3869
Acreage irrigated - general	15715	5141	13440	36504	9827	45537	20716	146880
Acreage irrigated - rice	13659	5514	13248	33277	12866	59664	0	138228
Acre-feet per acre (a)	4.5	6.4	6.5	5.8	4.9	7.4	8.4	6.5
Per cent of total diversion	8.6	3.6	9.3	21.6	5.9	41.6	9.4	

(a) Excluding such diversions for municipal use as the City of Sacramento and the City of Redding.

TABLE 195

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Sacramento to Verona)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - See Footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--"M" STREET BRIDGE - SACRAMENTO--	0.0												
--CAGINO STATION - SACRAMENTO RIVER AT SACRAMENTO--	0.6L												
City of Sacramento	0.8L	3-18" 2-20" 2-24"	2698	2864	3660	4829	5267	5201	4134	3245	a 31898	MUNICIPAL	
--AMERICAN RIVER--	1.1L												
--BACK BORROW PIT RECLAMATION DISTRICT 1000--	1.3L												
American Home Company (b)	1.45R	1-8"		19	78	163	181	101	11		553	175	
--RECLAMATION DISTRICT 1000 DRAIN--	2.1L												
Elmer F. Christophel	2.15L	1-8"		26	6	25	26	5	24		112	37	
D. D. Parr	3.15L	1-6"				6	11				17	20	
Rose Orchard, Incorporated (c)	3.55R	1-16"			15	392	223	193			823	170	
Evergreen Farms	3.75R	1-6"				NO DIVERSION							
M. Owyang	4.0R	1-10"				19	64	30			113	60	
--SACRAMENTO WEIR RECORDER STATION--	4.2												
Reese and Oreer	4.65R	1-7"				25	65				90	d 98	
George W. Reed	5.05R	1-12"		57		57	76	113			303	90	
Mary S. Seydel Estate	5.25R	1-8"		39	15	101	60	53			268	96	
A. R. Merkley	5.3R	1-6"			20	21	39	25			105	55	
Lucy Casselman	5.5R	1-6"				35	28				63	e 48	
A. A. Casselman	5.55R	1-8"		18	26	11	49	21			125	60	
J. E. Bandy	6.0R	1-6"				NO DIVERSION							
Riverside Mutual Water Company	6.1L	2-18"			388	1143	1623	1106	697	127	5084	1476	
W. W. White	6.6R	1-6"				NO DIVERSION							
--RECLAMATION DISTRICT 1000 DRAIN #3--	6.85L												
Fred C. Jones	7.5L	1-8"				44	41	41	18		144	100	
A. Marty and C. Inderkum	7.7R	1-8"				73	79	129	33		314	f 148	
Candido Rosa (g)	7.8L	1-10"				30	8	42			80	101	
E. D. Willey	7.9L	1-10"		3	26	23	84	62	18		216	95	
A. Marty and C. Inderkum	8.25R	1-8"				8	17	36			61	f	
A. Marty and C. Inderkum	8.3R	1-8"			12	71	36	48	38		205	90	
Pearl Blauth	8.5R	1-7"			8	23	66	5			102	45	
M. Waldeck	8.7R	1-6"				NO DIVERSION							
Fong Shee Farm	9.3L	1-10"			77	222	201	121	119		740	235	
Henry Amen and E. C. Peabody	9.35R	1-14"		6		206	207	105	32		556	h 410	
Fred C. Jones	9.8L	1-8"			8	27	33	23	24	8	123	30	
Carl Casselman	9.9R	1-12"		19		79	114	121			333	120	
Lloyd M. Robbins	10.25L	1-14"			11	44	117	90	48		310	i 564	
Thomas M. Erwin (j)	10.65R	1-12"			3	10	55	46			114	50	
Edward Russell	10.75L	1-12"		10	4	39	40	46	40		179	105	
W. A. Ter Eyck	11.1R	1-12"			96	389	370	293	79		1227	k 310	
--ELKHORN FERRY--	11.9												
Woodland Farms, Incorporated	12.0R	4-36"		925	3697	11141	13700	13028	3340	874	m 46711	n,p 4485	n,q 5382
Thomas O'Connor Estate	12.5R	1-12"				16	96	30			142	160	
William Plumb, Jr.	12.7R	1-6"				47	27	1			75	80	
Lewis Thornton	12.95L	1-5"						2	1		3	2	
S. C. Farms, Incorporated	13.1R	1-12"		32	37	137	336	258	30		r 830	e 235	
S. C. Farms, Incorporated	13.25R	1-12"			34	63		79	151	64	t 391	e	
Elkhorn Mutual Water Company	14.1L	1-24" 1-30"		370	1369	2360	2824	2600	1475	296	11294	u 2768	u 160
Joseph Voress	14.25R	1-14"		62		219	171	95	96	23	v 666	230	
A. Bianchi	15.1L	1-3" 1-4"				NO DIVERSION							
Donald J. Dumrich	15.1R	1-16"			48	52	121	83			304	245	
Natomas Central Mutual Water Company	16.6L	1-24" 4-32" 1-38"		2731	7662	5850	8772	8877	4240	208	u 38340	w 2576	w 5005
Norshey Estate	16.2?R	1-20"	18	4	189	232	125	78			x 646	160	

TABLE 195

DIVERSIONS AND ACREAOES IRRIGATED - SACRAMENTO RIVER (Sacramento to Verona) (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversion Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Sacramento River Ranch	16.62R	1-14"		30		194	409	407	292		1332	y 220	x 70
Sacramento River Ranch	17.0R	1-14"				46	140	35	128		349	y	
Frank and Ruth Lang	17.4R	1-16"				196		300			496	110	
Jose Alves and Sons	17.75R	1-16"				NO DIVERSION							
Jose Alves and Sons	18.0R	1-20"		3	90	219	762	566	234	57	1931	765	
H. C. Lauppe	18.2L	2-10"			31	207	287	243	27		795	220	78
Burton H. Lauppe	18.45L	1-14"				22	116	50			188	200	
J. L. Brannely	18.7L	1-12"			103	122	192	158	68		643	46	94
Layton Knaggs	18.7R	1-24"				NO DIVERSION							
SACRAMENTO TO VERONA													
Totals			2716	7218	17713	29238	37258	34946	15403	4902	149394	17290	10789
Average cubic feet per second			44	121	288	491	606	568	259	80	307		
Monthly use in per cent of seasonal			1.8	4.8	11.9	19.6	24.9	23.4	10.3	3.3			

a Additional acre-feet diverted: November 2328, December 2177, January 2166, and February 2029.
b Formerly listed as Fourness Estate.
c Formerly listed as Rose Orchard.
d Includes 40 acres which also received an undetermined amount of well water.
e This acreage also received an undetermined amount of well water.
f Combined acreage for Miles 7.7R and 8.25R.
g Formerly listed as M. R. Williamson.
h Includes 220 acres Amen lands and 190 acres of Peabody lands.
i Of this acreage, 230 also received an undetermined amount of water by controlled drainage.
j Formerly listed as Leona Hughes.
k Includes 140 acres which also received an undetermined amount of well water.
m Additional acre-feet diverted: November 1283 and December 2858.
n This acreage also received 547 acre-feet of water from Willow Slough, 5943 acre-feet of water from Cache Creek, and an undetermined amount of water from controlled drainage.
p Of this acreage, 240 was reused as duck club land.
q Of this acreage, 510 was reused as duck club land. Includes 987 acres outside of Woodland Farms Inc.
r Additional acre-feet diverted: November 19.
s Combined acreage for Miles 13.1R and 13.25R. This acreage was double cropped.
t Additional acre-feet diverted: November 36.
u The acreage listed for Mile 14.1L also received 2642 acre-feet of water from Mile 16.0L.
v Additional acre-feet diverted: November 2 and December 4.
w This acreage also received an undetermined amount of water from controlled drainage.
x The rice acreage listed for Mile 16.62R also received 421 acre-feet of water from Mile 16.27R.
y Combined acreage for Miles 16.62R and 17.0R.

TABLE 196

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Verona to Knights Landing)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions Mar.-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--GAGING STATION - SACRAMENTO RIVER AT VERONA--	19.6L												
--CROSS CANAL RECLAMATION DISTRICTS 1000 and 1001--	19.6L												
Arthur Drown	*(0.05S)	1-10"			2	126	135	239	103	11	s 616	226	
Natomas Central Mutual Water Company	*(1.0S)	1-28" 1-36"		879	2291	1845	2020	2052	1112		10199	286	928
Natomas Central Mutual Water Company	*(2.0S)	1-20" 2-24"		1633	5536	3945	5076	4928	2099		23217	b 1198	b 3034
B. J. Ukropina	*(3.3N)	2-24"			18	417	1145	889	749		3218	c 675	c 447
B. J. Ukropina	*(3.35N)	1-16"			605	929	270	363			2167	c	c
Roy C. Osterli	*(3.35N)	1-14"				NO DIVERSION							
Roy C. Osterli, Harlan Van Dyke, and Orlan Van Dyke	*(3.45N)	1-36"		72	837	1284	1694	1579	631	3	6100	731	345
--FEATHER RIVER--	20.9L												
--SACRAMENTO SLOUGH--	21.2L												
Sacramento River Ranch	21.5R	1-16"			1	105	140	117		4	367	290	
Sacramento River Ranch	21.7R	1-15"				NO DIVERSION							
Sacramento River Ranch	22.5R	1-24"				NO DIVERSION							
A. F. Johnston	26.8L	1-16"					90	11			101	175	
Anthony Furlan	26.8L	1-16"					17	13			30	66	
--FREMONT WEIR RECORDER STATION (WEST END)--	28.0R												
Anthony Furlan	28.2L	1-12"					33				33	69	
Gus Inglin	28.2R	1-6"		4		6	32	8	18		68	27	
Ralph White	28.6L	1-8"				77	56	27			160	45	
Hershey Estate	29.0R	1-12" 2-16"				96	326	292			714	175	

TABLE 196

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Verona to Knights Landing) (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Russell Brothers	29.2R	1-12"				117	12	60	3		192	160	
Sebastian Yturralde	29.9L	1-12"		1		40	78	24			143	105	
M. R. Richardson	30.1R	1-8"				NO DIVERSION							
Leo Giovanetti	30.2L	1-6"				12	11	7	11		41	40	
Anthony Furlan	30.5L	1-14"			25	22	30	48	13		138	169	
M. R. Richardson	30.7R	1-10"				67	8				75	97	
Albert Nusz	30.75R	1-6"			2	22	15	8			47	20	
Alice E. West	30.9L	1-6"					17	9			26	30	
A. C. Huston Jr. and Mrs. E. Huston	31.5R	1-12"				76	130	123			329	150	
M. R. Richardson	31.75R	d 2-14"				NO DIVERSION							
M. Alonso	31.8L	1-6"					3				3	15	
Sutter Mutual Water Company (Portuguese Bend)	32.0L	1-20" 2-24"		741	1848	1839	2032	1738	967	70	e 9235	1584	428
Collier Brothers	32.5R	1-10"				61	22	44	12		f 139	100	
J. F. Waters and E. Furlan	32.5L	1-12"			2	52	41	15			110	69	
W. H. Zeigler and H. Carlson	33.2L	2-10" 1-12"		13	644	510	611	533	285		2596	331	141
J. C. Knox	33.35L	1-10" 1-12"				84	38				122	180	
Clarence Du Bois	33.5R	1-12"		42		107	116	78			343	120	
P. K., G. J., and W. N. Leiser and L. J. Mansager	33.75L	1-14"			5	126	6	108	1		246	310	
Neil Wilson	33.85R	1-6"	10	9	11	34	25	26	10	11	f 136	32	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	33.9S												
VERONA TO KNIGHTS LANDING Totals			10	3394	11827	11999	14229	13339	6014	99	60911	7475	5323
Average cubic feet per second			0	57	192	202	231	217	101	2	125		
Monthly use in per cent of seasonal			0	5.6	19.4	19.7	23.3	21.9	9.9	0.2			

* Mile 19.6L - Cross Canal. Distance from Sacramento River and bank are shown in ( ).
a Additional acre-feet diverted: November 1.
b This acreage also received an undetermined amount of water from controlled drainage.
c Combined acreage for Ukropina plants at Mile *(3.3N) and *(3.35N).
d Previously listed as 1-14" and 1-20" unit.
e Additional acre-feet diverted: November 69.
f Additional acre-feet diverted: November 3.

TABLE 197

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Knights Landing to Wilkins Slough)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--GAGING STATION - SACRAMENTO RIVER AT KNIGHTS LANDING--	34.0L												
--KNIGHTS LANDING BRIDGE--	34.1												
--COLUSA BASIN DRAIN--	34.15R												
E. E. Nuttall	34.15R (0.2)	1-6"				2	17				19	20	
River Farms Company	34.5R	1-16" 1-20" 1-24"		222	425	552	216	98	210	196	1919	921	
Walter Ernst and A. Johnson	34.85L	1-8" 1-12"				2	71	68			141	100	
Walter Raymond	35.2L	1-12"				NO DIVERSION							
John[illegible]n and Anderson [illegible]	35.8L	1-10"				12	21				33	68	
J. [illegible]ffitzer	35.85L	1-6"				17	7	5			29	10	
Frank Rossi	36.2L	1-12" 1-14"			344	321	381	366	124		1536	b 131	96
Earl [illegible]. Gray	[illegible].45L	1-8"				NO DIVERSION							
--RECLAMATION DISTRICT 787 DRAINAGE PLANT--	[illegible]												
Albert Nuttall	[illegible].2L	1-14"				17	19	11			47	30	
Maybelle J. Fundock	[illegible].75L	1-[illegible]"					23	24			47	88	
Alice Reel and Mabel Green	[illegible].4L	1-1[illegible]"				15	17				32	50	

TABLE 197

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Knights Landing to Wilkins Slough)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
C. L. Reel	38.8L	1-10"				1	94				95	110	
C. L. Reel	39.4L	1-12"				23	67	38			148	115	
C. L. Reel	39.8L	1-10"				16	20				36	50	
William Duffy, Jr.	39.9L	1-5" 1-6"				23	10	10			43	25	
Sutter Mutual Water Company (State Ranch Bend)	40.6L	2-24" 1-36"		1071	5645	4591	5091	5024	1462	29	22913	1980	2095
River Farms Company	41.0R	1-14" 1-16"		94		135	436	145			810	296	
Buell Ranch	41.0L	1-6"				17		11			28	43	
Buell Ranch (B. E. Dean)	42.2L	1-6"				15		4			19	20	
Mrs. N. Lorenzetti	42.3L	1-8"				32	14				46	50	
El Dorado Ranch	42.3R	1-14" 1-16"			112	631	509	328	103		c 1683	869	
El Dorado Ranch	43.1R	1-12"				NO DIVERSION							
Reclamation District 2047	43.1R	3-50"		4354	11676	12194	15275	13430	5301		d 62230	e 1194	e 5426
Kramer Ranch	43.1L	1-12"				52					52	108	
Bill Erdman	43.4R	1-10"			53	33	80	84	56		306	146	
--RECLAMATION DISTRICT 108 DRAINAGE PLANT--	44.0R												
John Clauss	44.2L	1-18"			328	442	866	1044	1100		f 3780	482	
John Clauss (Fuchlin)	45.6L	1-14"				NO DIVERSION							
--GAGING STATION - SACRAMENTO RIVER ABOVE R. D. 108 DRAINAGE PLANT--	46.4												
John Clauss	46.45L	1-16"			820	550	1057	1021	1089		4537	22	f 162
J. R. Henle	46.5L	1-14" 1-20"			112	237	270	61			g 680	255	
Mary Hiatt Properties Inc. (h)	48.7L	2-22"		235	753	1251	1259	1173	694		5365	366	121
G. J. Hiatt	49.7L	1-14"			462	250	376	207	122		1417	217	48
Reclamation District 108 (Tyndall Mound)	51.1R	2-24" 1-36"		1124	4267	3926	3650	2953	1507	38	17465	1027	877
Holmes and Westover Company	51.2L	2-16"		1	1701	1234	1693	1144	510		6283	625	230
Fritz Erdman	51.9R	1-12"				NO DIVERSION							
Thomas Nelson	52.0L	1-16"				53	141	139			333	160	
George Van Ruiten	52.9L	1-10"				NO DIVERSION							
River Farms Company	53.8R	1-12" 1-15"		189	46	144	PLANT	REMOVED			i,j 379		
Reclamation District 108 (k) (Howell Point)	53.8R	1-14" 1-20" 1-36"				227	383	264	254		1128	i 1222	
George Van Ruiten	53.9L	1-12"					139	101	70		310	165	
Broomieside Farms	55.1L	1-20"				NO DIVERSION							
Broomieside Farms	56.3L	1-16"				NO DIVERSION							
Reclamation District 108 (Boyer Bend)	56.4R	1-12" 1-18" 2-22" m 1-36"				666	766	593	65	61	2151	976	
Jacob Miller	56.65R	1-12"				NO DIVERSION							
Broomieside Farms	56.95L	1-20"				NO DIVERSION							
L. M. Miller	57.0R	1-10"				NO DIVERSION							
William Crawford	57.25L	1-24" 1-30"		861	1601	1519	1635	2130	468		8214	390	875
Lamb Brothers	57.5L	1-16"				NO DIVERSION							
J. A. Neilson Estate	58.3L	1-14"				19	106	92	38		255	192	
Alex Grant	58.9L	1-16"				40	43	28			111	65	
I. G. Zumwalt	59.1R	1-12"				NO DIVERSION							
Lamb Brothers	59.8L	1-14"				NO DIVERSION							
W. A. Larner	60.4L	1-14" 1-16"			634	638	653	656	139		2720	220	210
L. A. Butler	60.5L	1-12"				69	101	60			230	135	
Richard Moore	61.5R	1-12"				15	25	5			45	n 70	
L. A. Butler	61.8L	1-12"		50		95	52				197	90	
Wayne Hine	62.3R	1-10"				57	155	157	50	18	437	p 165	
John Mack	62.3L	1-14"			123	267	176	338	69		973	60	84
Jake Locvich Estate (e)	62.6R	q 1-6"				8	29				r 37	35	

TABLE 197

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Knights Landing to Wilkins Slough)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
KNIGHTS LANDING TO WILKINS SLOUGH													
Totals			0	8201	29102	30408	35963	31812	13431	342	149259	13363	10224
Average cubic feet per second			0	138	473	511	585	517	226	6	307		
Monthly use in per cent of seasonal			0	5.5	19.5	20.4	24.1	21.3	9.0	0.2			

a Formerly listed as Knox and Anderson.
b Includes 30 acres of Earl H. Gray lands.
c Additional acre-feet diverted: November 69.
d 1233 acres of rice and 300 acres of general crop listed for Mile 63.2R also received an undetermined amount of water from Mile 43.1R. Includes 19,682 acre-feet delivered to River Farms Company as follows: April 1515, May 3865, June 4407, July 4000, August 4275, and September 1620.
e Includes acreage as follows: Reclamation District 108, rice 3236 and general 1064; River Farms Company, rice 2190 and general 130.
f The rice acreage listed for Mile 46.45L also received an undetermined amount of water from Mile 44.2L.
g Includes 107 acre-feet of water spilled into a lake.
h Formerly listed as P. J. Hiatt.
i 276 acres of the acreage listed at Mile 53.6R (Reclamation District 108) also received 379 acre-feet from Mile 53.8R (River Farms Company).
j Additional acre-feet diverted: November 50.
k New installation in 1956.
m The 36" unit was installed in 1956.
n All Zumwalt lands.
p Includes 120 acres of Zumwalt lands.
q Previously listed as an 8" unit.
r Additional acre-feet diverted: November 11.
s Previously listed as Jake Locovich Estate.

TABLE 198

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Wilkins Slough to Colusa)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--GAGING STATION - SACRAMENTO RIVER AT WILKINS SLOUGH--	62.9R												
Reclamation District 108 (Wilkins Slough)	63.2R	5-42"		8836	28984	26300	27458	25036	7462		124076	a 4274	a 11345
R. L. Young	63.3L	1-12"		11	22	32	88	98	27		278	86	
Meister Ranch	63.65L	1-8"				31	59	39			129	100	
Sutter Mutual Water Company	63.75L	6-42" 2-48"		13614	29753	30196	33999	32899	10880	2469	b 153810	c 15697	c 11354
Robert E. Seamans (d)	63.9L	2-14"			291	310	593	445	136		1775	230	95
--TISDALE WEIR RECORDER STATION--	64.2L												
Ornbaum Livestock Company	64.3R	e 1-14"				38	39	49	16	28	170	85	
Lamb Brothers	64.35L	1-14"			341	276	282	308	94		1301		81
Tisdale Irrigation and Drainage Co.	64.4L	1-8" 1-12"		57		198	523	502	84		1364	610	
Van Horn Ranch	64.9R	1-14"				118	258	196	56		628	200	
Juan Velasquez	65.1R	1-4"				NO DIVERSION							
Fred Schohr	65.6R	1-16"				NO DIVERSION							
Walter Ettl	65.7L	1-8"				70	101	92			263	135	
J. L. Browning	66.4R	1-18"				198	293	219	36		746	498	
Tisdale Irrigation and Drainage Co.	67.1L	1-16" 1-22"		399	811	1263	1716	1841	660		f 6690	f 1409	f 276
Newhall Land and Farming Company	67.5L	1-12" 2-24"		803	1977	2514	2950	2673	830		11747	g 2303	481
--RECLAMATION DISTRICT 70 DRAIN PLANT--	68.8L												
Meridian Farms Water Co. #5	68.8L	1-24"				NO DIVERSION							
J. L. Browning	69.0R	1-14" 1-22"			75	8	72	82			237	225	
C. Ierxa and A. Andreotti (h)	69.2R	2-16"		361	652	758	832	551	249	19	3422	459	300
--EDDY'S FERRY SITE (ORIMES)--	69.4S												
J. E. Hollenbeck	69.8R	1-4"				NO DIVERSION							
H. F. Daly	70.4L	1-10"			13	42	87	71	33	13	259	i 87	
Beckley, Ritchie, Poundstone, and Andreotti (j)	70.4R	1-16" 1-20"		1	2	81	100	64	29	34	311	141	
Meridian Farms Water Co. #4	71.1L	1-24"		335	1062	1091	1112	1325	471		5396	1037	176
A. B. Armstrong	71.4R	1-14"				86	137	104	6		333	260	
H. and A. Andreotti	72.1L	2-14"			164		248	200			612	232	
C. T. Froh	73.6R	1-14"			13	82	102	38	29		264	177	
Meridian Farms Water Co. #3	74.8L	1-18"			1156	1020	1065	1026	543		4810	541	185
L. B. Westfall	75.3R	1-1 "				81	138	80			299	110	
J. H. Yates Estate	76.1L	1-1 "		5		61	81	34			181	k 165	

TABLE 198

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Wilkins Slough to Colusa)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
Robert Chesney	76.15L	1-10"			29		58		13		100	160	
M. S. Davis and C. K. Anderson	76.2L	1-8"				13	26				39	m 68	
Steidlmayer Brothers	76.5R	1-16"				NO DIVERSION							
Olive Percy Davis, et al.	77.8R	1-16"		73		254	553	365	163		1408	391	
San Juan Ranch (n)	77.9L	1-16"				201	34	18			253	254	
Olive Percy Davis, et al.	78.75R	2-12" 1-16"	14	490	394	375	834	1043	74	41	p 3265	562	
Olive Percy Davis, et al.	78.8R	1-24"		871	2392	2194	2191	967			8615		p,q 1851
Steidlmayer Brothers	78.9R	1-12"				NO DIVERSION							
C. E. Reische	79.0L	1-10"			13	82	69	60			224	r 169	
Gerrans Orchards	79.3R	1-10"				41	23	17		31	112	s 75	
J. J. Hankins	79.5L	1-8"				24		16			40	t 48	
A. M. Wood	79.7L	1-10"			9	29	45	22			t 105	u 114	
--GAGING STATION - SACRAMENTO RIVER AT MERIDIAN--	79.85												
Meridian Farms Water Co. #1 and #2	80.0L	1-10" 1-20" 1-24"		1629	3077	3733	4190	3933	1315		17877	v 2950	v 1404
Gerrans Orchards	80.3R	1-8"				38	43	14		36	131	65	
Wayne Hall Estate and E. J. Burrows	81.5L	1-16"					21				21	35	
Wayne Hall Estate	81.8L	1-16"		202	714	658	816	698	275		3363	91	180
F. T. Reische and L. F. Wood	82.5L	1-12"				28	35	23	18	9	113	65	
Emerson Hixon (w)	82.7L	1-6"				NO DIVERSION							
Steidlmayer Brothers	83.0R	1-20"		221	160	253	580	92	87	6	x 1399	822	
J. E. Clark	83.3L	1-14"				NO DIVERSION							
J. E. Clark	83.5L	1-10"				15	58	13			86	90	
--BUTTE SLOUGH OUTFALL GATES--	84.0L												
Reclamation District 1004	85.3L	1-8"				NO DIVERSION							
Steidlmayer Brothers	85.6R	1-12"			92	13	144	16			265	135	
Clifford Reichel	85.8L	1-10"			212	277	330	306	223		1348	79	83
Lydell Peck	86.1L	1-8"		25		38	32				95	70	
W. H. Halsey	86.1R	1-12"			16	75	98	28	31	18	266	153	
Howell Davis	86.2R	1-18"				NO DIVERSION							
Mitchel Lobrovich and John Brayovich	86.8L	1-8"			28		30				58	45	
Kathleen Wilbur (y)	86.9R	1-10"		4	134	73	69	41	58	25	404	240	
Kathleen Wilbur (y)	87.4R	1-10"		42		80	37	20	25	25	229	55	
W. H. Halsey	87.45L	1-6"				11	21				32	23	
Mrs. O. Locvich (z)	87.6L	1-8"				6	6				12	12	
Swinford Tract Irrigation Company	87.7R	1-12"				70	127	6			203	109	
Frank Azevedo	88.0R	1-6"				9	9	8			26	17	
Nagel and Locvich (aa)	88.2L	1-10"			14	33	32				79	44	
Mayfair Farms Inc. (ab)	88.7L	1-14"		34		70	64			16	ac 184	126	
Colusa Irrigation Company	89.2R	1-20"			390	293	66	79			828	311	
Grace S. Arnold	89.24L	1-8"				3	48				51	74	
Reclamation District 1004	89.25L	1-12" 1-18"			398	184	844	386		471	ad,ae 2283	905	af 200
W. H. Halsey and M. Yerxa	89.26L	1-12"				44	241	15			300	ae 116	
WILKINS SLOUGH TO COLUSA													
Totals			14	28013	73388	74071	84107	76158	23923	3241	362915	37534	28011
Average cubic feet per second			0	471	1194	1245	1368	1239	402	53	747		
Monthly use in per cent of seasonal			0	7.7	20.2	20.4	23.2	21.0	6.6	0.9			

a 1233 acres of rice and 300 acres of general crop listed for Mile 63.2R also received an undetermined amount of water from Mile 43.1R.
b Includes 5911 acre-feet of water served to lands in Reclamation District 1660 as follows: April 401, May 1354, June 963, July 1380, August 1358, and September 455.
c Includes 610 acres general and 519 acres of rice in Reclamation District 1660.
d Formerly listed as Robert E. Seaman.
e Replaces a 12" unit.
f Includes 100 acres of rice lands and 250 acres of general crops of F. Winship lands which received 1077 acre-feet of water and is outside the district.
g Of this acreage, 174 was double cropped.
h Formerly listed as Faxon, Morton, and Andreotti.
i Includes 41 acres of Rohleter lands.
j Formerly listed as Hoffman, Backley, Ritchie, Poundstone, and Andreotti.
k Includes 20 acres of Coffman lands.
m Includes 18 acres of Albertson lands.
n Formerly listed as J. J. Hankins.
p The acreage listed for Mile 78.8R also received an undetermined amount of water from Mile 78.75R.
q Of this acreage, 1443 acres also received an undetermined amount of water from controlled drainage and 24 acre-feet from Colusa Basin Drain, Mile 29.79L.
r Includes 30 acres of Staas lands, 30 acres of Lemoa lands and 30 of Davis lands.
s Includes 15 acres of Oil Terminals Company lands.
t The acreage listed for Mile 79.5L also received an undetermined amount of water from Mile 79.7L.
u Includes 64 acres of Burtis lands.
v Includes 320 acres of general crops and 230 acres of rica which also received an undetermined amount of water from controlled drainage. An additional 1666 acres of general crops and 354 acres of rice irrigated by controlled drainage.
w New installation in 1956.
x Additional acre-feet diverted: November 6.
y Formerly listed as Roger Wilbur.
z Formerly listed as Mrs. D. Locovitch.
aa Formerly listed as Nagel and Locovitch.
ab Formerly listed as Mayfair Packing Co.
ac Additional acre-feet diverted: Novamber 33.
ad 375 acras of rica and 240 acres of general crops listed for Mile 4.3R on Butte Creak also received an undetermined amount of water from Mile 89.25L. 240 acras of general crop that was raused for duck ponds listed for Mile 4.3R on Butte Creek also received an undetermined amount of water from Mile 89.25L.
ae The acreage listed for Mile 89.26L also received an undetermined amount of water from Mile 89.25L.
af An additional 500 acras was used for duck ponds and received 323 acre-feet of water from Mila 4.3R on Butte Creek during November and December.

TABLE 199

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Colusa to Butte City)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--COLUSA BRIDGE - GAGING STATION - SACRAMENTO RIVER AT COLUSA--	89.4R												
Lillian and Hattie Boggs	89.7L	1-10"				27	106	94			227	55	
Roberts Ditch Company	90.7R	1-18"		245	237	731	1042	842	506	124	a 3727	b 1449	
I. G. Zumwalt	91.0R	1-6"				NO DIVERSION							
Paul R. Westfall	91.1L	c 1-3" 1-8"					14	4			18	29	
I. G. Zumwalt	91.6R	1-12"				75	28			44	147	130	
--COLUSA WEIR RECORDER STATION--	92.4L												
George P. Ahlf	92.5L	1-6" 1-10"				NO DIVERSION							
Andrew Martin (d)	92.7L	1-4"					7	8			15	5	
W. H. Halsey	93.0R	1-8"				30	34				64	40	
Paul R. Westfall	93.6L	c 1-3" 1-10"					8	9			17	54	
Tuttle Land Company	94.3R	1-20"			30	223	213				466	e 313	
Roger Wilbur	95.25L	1-12" 1-18"		56	177	296	553	336	88	432	f 1938	g 614	
Azro N. Lewis	95.6L	1-12" 1-20"				50	838	694	375		1957		h 298
J. C. Griffin	95.75L	1-15"					24	18			42	22	
J. C. Griffin	95.8L	1-26"				NO DIVERSION							
W. C. Graham	95.85L	1-18"		32	1071	817	780	703	155		3558	24	i,j 517
I. G. Zumwalt	96.8R	1-15"				147	179				326	340	
H. Heitman	97.7R	1-14"		24	20	105	96	75	60	56	k 436	108	
Rio Bonito Farms (d)	97.75L	1-6"				54	62	5	2	32	155	190	
Rio Bonito Farms (m)	98.0L	1-10"				17	10		9		36	27	
J. L. Erisey	98.3R	1-10"					26				26	55	
Otterson and Boggs	98.6L	1-15"			177						i 177		
D. Boggs	98.8L	1-18"				150	76	113	5	2	346	130	
Elizabeth Reimer	99.0R	1-14"		22	51	111	170	175	42		571	179	
J. E. Boggs	99.1L	1-10"				38	32				70	160	
Hollis Sartain	99.2L	1-20"			1133	1003	1135	1055	428		4754	110	n 650
L. W. Seaver	99.3R	1-10" 1-12"		39	22	169	173	72	62		p 537	176	
Dove George	99.8L	1-4" 1-16"				NO DIVERSION							
St. Patrick Home Ranch	101.1R	1-20"		207	325	341	619	336		5	1833	q 417	r 160
Jane Foster Carter	101.8L	1-14"				83	332	298	58		771	314	
Nettie, George, and Ella Packer	102.8R	2-12" 1-20"		141	509	566	590	581	68		2455	60	334
C. B. Carter	102.9L	1-16"				79	179	116	45		419	275	
--GAGING STATION - SACRAMENTO RIVER OPPOSITE MOULTON WEIR--	103.3												
--MOULTON WEIR RECORDER STATION--	103.6L												
Charles W. Welch	103.7R	1-16"		231	792	635	748	768	244		3418	180	s 900
Charles W. Welch	103.8R	1-14" 1-20"		710	1016	968	926	1177	164		4961		s
C. W. Tuttle	103.9R	1-12" 1-18"		487	1108	1172	826	829	48		4470	40	525
I. G. Zumwalt	104.8L	1-12"			21	8	45				74	135	
I. G. Zumwalt	105.3L	1-12"				NO DIVERSION							
Lawrence [illegible]	105.5L	1-10"					9	4			13	21	
Thousand Acre Ranch (H. W. Keller)	106.0R	1-14"			11	120	141	93	21		386	220	
Olive Percy Davis, et al.	106.5R	2-16"		103	412	557	624	531	134		2361	236	310
Princeton Ranch Company	111.0R	1-12"			22	150	135				307	180	
H. W. [illegible]	111.1L	2-16"			569	584	740	744	228		2865	144	250
I. G. Zumwalt	111.7L	1-12"					98				98	155	
--PRINCETON FERRY--	112.0												
I. G. Zumwalt	112.5L	1-12"					29				29	65	
Reclamation District [illegible]4	112.1L	2-3" 1-5"		3463	9819	10747	11468	10542	4753		50792	3559 t,u,v	t,w 5491
Princeton-Codora-Glenn Irrigation District	112.4R	3-4"		888	2764	3731	4337	3995	397		16102	x 2188	x 3910

TABLE 199

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Colusa to Butte City)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
I. G. Zumwalt	112.6L	1-10"				140	7				147	225	
Emerson B. Estes	114.9R	1-5"				15	19				34	100	
Mark Munson (y)	z 115.3R	1-4"			8	7	6	10	5		36	17	
Opal L. Cushman	115.5L	1-12"		31	3	44	76	17		32	203	92	
COLUSA TO BUTTE CITY													
Totals			0	6679	20287	23990	27560	24244	7897	727	111384	12833	13345
Average cubic feet per second			0	112	330	403	448	394	133	12	229		
Monthly use in per cent of seasonal			0	6.0	18.2	21.5	24.7	21.8	7.1	0.7			

a Additional acre-feet diverted: November 6.
b Includes 15 acres which also received an undetermined amount of well water.
c The 3" unit was a temporary installation in 1956.
d New installation in 1956.
e Includes 10 acres of Halsey lands and 26 acres of Mayfair lands.
f Additional acre-feet diverted: November 244 and December 645.
g Of this acreage, 130 was reused for duck ponds.
h Includes 146 acres of Munson Estate lands.
i The rice listed for Mile 95.85L also received 177 acre-feet of water from Mile 98.6L.
j Of this acreage, 40 was reused for duck ponds.
k Additional acre-feet diverted: November 18.
m Formerly listed as Frank N. Beckley.
n Of this acreage, 75 was reused for duck ponds.
p Additional acre-feet diverted: November 49.
q Includes 27 acres which also received an undetermined amount of well water.
r Includes 160 acres which also received an undetermined amount of well water.
s Combined acreage for Miles 103.7R, 103.8R and plants on Colusa Basin Drain at Miles 48.7L (0.2) and 48.7L (0.3).
t Includes 470 acres of rice outside the district. This acreage also received 19405 acre-feet of water from plants on Butte Creek at Miles 11.8R (2.6) and 14.4R (0.2).
u Includes 300 acres of duck club lands.
v Of this acreage, 200 was reused as duck club lands.
w Of this acreage, 3200 was reused as duck club lands.
x Combined acreage for Miles 112.4R and 123.9R and plant on Colusa Basin Drain, Mile 54.2L. Includes 130 acres of general crops that received 550 acre-feet of water from Glenn-Colusa Irrigation District plant at Mile 154.8R.
y Formerly listed as L. B. Lucas.
z Plant moved from Mile 115.4R in 1956.

TABLE 200

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Butte City to Red Bluff)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--BUTTE CITY BRIDGE--	115.8												
--GAGING STATION - SACRAMENTO RIVER AT BUTTE CITY--	115.8L												
Mark Munson (a)	115.8R	b 1-4"			3	7	5	7	3		25	9	
R. H. Gebicke	115.85L	1-14"				75	98	17			190	c 200	
L. O. Ohlson (d)	115.9R	1-6"				18		80			98	70	
Manuel Torres	116.37L	1-12"				NO DIVERSION							
Cronin Estate	116.9L	1-16"				NO DIVERSION							
L. O. Ohlson	117.1R	1-10"				26	26				52	90	
W. F. Wright, Jr.	117.5R	1-6"				36	28		9	24	97	136	
W. H. Stewart, Jr.	120.3R	1-10"					18				18	40	
Robert T. Millar	122.3R	1-10"				NO DIVERSION							
Clarence Reed	123.7R	1-6"					14	15			29	31	
P. K. Friesen	123.8R	1-4"				1					1	2	
Princeton-Codora-Glenn Irrigation District	123.9R	5-24"		6483	10025	9143	9348	9468	4954	1810	51231	e	e
Provident Irrigation District	124.2R	2-24" 3-36"		3133	6677	5911	6162	6225	1581		f 29689	g 666	g 7020
J. Bertapelle	124.3R	1-12"	16	49	111	224	302	297	215	100	h 1314	450	
Joe Thomas	125.5R	1-12"				NO DIVERSION							
Duard F. Geis	128.3R	1-6"				35	82	29	49	20	215	87	
F. S. Reager	130.75R	1-8"			11	92	106	65	15	33	i 322	231	
--GAGING STATION - SACRAMENTO RIVER AT ORD FERRY--	130.8R												
O. D. Simmons	131.0L	1-4"				NO DIVERSION							
Harry E. Nichols, Jr.	133.45L	1-6"					69	72	34		175	90	
Harry E. Nichols, Jr.	133.5L	1-5"				16	16	21	1		54	46	
--STONY CREEK--	138.0R												
--BIG CHICO CREEK--	141.5L												
M. & T. Inc. and Parrott Investment Company	141.5L	1-20" 4-24"		784	1217	1926	3197	4057	1671	193	j 13045	2374	1991

TABLE 200

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Butte City to Red Bluff)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Frank C. Brazell	141.5L	1-4"				8	23	16	4	11	62	50	
--OLD CHICO LANDING RAILROAD BRIDGE SITE--	142.1												
Paul E. Arneberg (k)	142.8R	1-14"		41	31	128	195	153			m 548	125	
Leonard Horning	143.6R	1-10"					27	8	13	1	49	15	
Levi Bentz (n)	143.8L	1-6"			2	58	54	34	9		157	42	
Glenn Beagle	146.3L	1-6"				NO DIVERSION							
Leonard Horning	146.8R	1-3"				4	6	4	3	1	18	8	
Holly Sugar Corporation	148.9R	1-2" 1-10"				NO DIVERSION							
Wallace E. Ferrin and George A. Zundel	149.5L	1-12"				290	290	328			908	225	
--GAGING STATION - SACRAMENTO RIVER AT HAMILTON CITY (GIANELLA BRIDGE)--	149.5L												
J. A. and A. E. Lewis	149.7L	1-12"	50	45	73	21	109	118			416	p 300	
James A. Lewis	150.0L	1-10"		46		76	74	58			254	p	
V. C. Strain	150.8R	1-12" 1-16"	56	144	92	554	743	462	111		q 2162	603	
Joe E. Johnsen	152.2R	1-6"		5	5	17	20	16	10	3	r 76	31	
Robert Edwards (s)	152.4R	1-6"				NO DIVERSION							
Jessie and McClain	154.6R	1-5"				12	13	9			34	12	
C. G. Maas	154.7R	1-4"				1	1	2			4	9	
Jacinto Irrigation District	154.75R	1-36" 1-48"		7989	8039	10061	10584	10561	10332	8733	t 66299	8082	1611
Glenn-Colusa Irrigation District	*154.8R	1-42" 1-48" 4-66" 3-72" 1-100"	8187	59225	101061	121302	132558	125855	61748	36169	u,v 646105	w 27712	w 42161
Compton-Delevan Irrigation District	*	*									v		2166
Maxwell Irrigation District	*	*				NO DIVERSION							
J. Ewert	155.6R	1-4"		7	5	14	19	10	7	5	x 67	27	
R. Pheiffer	155.7R	1-2½"	3	3	4	7	7	5	3	3	y 35	7	
F. Williams	156.0R	1-6"	2	3	4	7	7	7	4	4	38	8	
H. H. Penner	156.1R	1-6"	9	10	14	29	26	29	16	14	z 147	aa 54	
O. L. Shearman	156.8R	1-2½"		1	2	2	2	2	1	2	12	4	
Taresh Ranch	158.8R	1-10"		39		75	112	61	52		339	100	
Jonathan Garst	ab 161.4SL	1-8" ac 1-14"			7	389	344	272	12		1024	290	
--GAGING STATION - SACRAMENTO RIVER AT VINA BRIDGE--	166.5R												
E. L. Dietz	166.7R	1-3"				NO DIVERSION							
Russell L. Deckman	166.8R	1-2"			1	1	1	1	1	1	6	9	
Ernest Peterson	166.9R	1-6"				6	7	9	1	5	y 28	41	
--DEER CREEK--	168.5L												
A. J. McFadden	168.5L	1-8"			7	41	45	63	36	8	200	64	
C. F. O'Connor	169.85R	1-10"			1	49	50	34	4	25	163	56	
C. P. O'Connor	168.9R	1-6"				NO DIVERSION							
Rumiano Brothers	167.8L	1-10"			27	32	54	55			ad 168	110	
Dr. [illegible] T. W[illegible]ol	173.7L	1-8"	14	1		15	8	7			45	11	
Dutro Brothers	175.5L	ae 1-4"		7	13	12	14	9	8	5	68	35	
Dutro Brothers	176.6R	1-4"		15	9	9	12	14	8	6	73	10	
Dutro Brothers [illegible]af	176.8P	1-4"					11	10			21	24	
--T[illegible]HAMA [illegible]--	177.5												
--MILL CREEK--	179.[illegible]												
--ANTELO[illegible] CREEK--	18[illegible].[illegible]L												
Los M[illegible]lin[illegible] Mutual Water Company	187.6L	1-12"				NO DIVERSION							
Henry Tieden	1[illegible].5L	1-1½"				NO DIVERSION							
Orville L. [illegible]hnson (ag)	18[illegible].[illegible]1L	1-2½"			1	3	3	2			9	13	
Henry Kerber	1[illegible].1	1-1[illegible]"		[illegible]4	37	70	161	140		9	469	126	
--[illegible] [illegible]LUFF [illegible]IDGE--	1[illegible].45												
Arthur [illegible]tanley	1[illegible].5L	1-2½"				NO DIVERSION							

TABLE 200

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Butte City to Red Bluff)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
S. and E. Erickson	196.6L	1-5"			1	23	16	10	6		56	37	
Diamond Match Company	197.0L	1-8"				19	43	51	16	18	147	50	
Carl Fahle (ah)	197.1L	1-3"					1	1	1		3	8	
J. W. Bulkely	197.5L	1-1¼"				NO DIVERSION							
C. A. Droz	198.0L	1-3"	2	26	22	33	36	33	22	17	r 191	ai 75	
C. A. Droz (ah)	198.3L	1-3"						21	8		29	12	
BUTTE CITY TO RED BLUFF													
Totals			8339	78088	127522	150878	165147	158823	80968	47220	816985	43000	54949
Average cubic feet per second			136	1312	2074	2536	2686	2583	1361	768	1681		
Monthly use in per cent of seasonal			1.0	9.6	15.6	18.5	20.2	19.4	9.9	5.8			

* This is a common point of diversion for Glenn-Colusa, Compton-Delevan, and Maxwell Irrigation Districts.
a Formerly listed as L. B. Lucas.
b Replaces a 1½" and a 6" unit.
c Includes 20 acres which also received an undetermined amount of well water.
d Reinstallation in 1956 of a plant previously removed.
e Combined acreage for Miles 112.4R and 123.9R and plant on Colusa Basin Drain at Mile 54.2L.
f Additional acre-feet diverted: November 255 and December 1304. Includes 864 acre-feet served to 108 acres of rice listed for Mile 154.8R.
g Combined acreage for this plant and plants on Colusa Basin Drain opposite Miles 57.5R(2.4), 61.2R(1.5), 62.8L(2.5), and 64.2R(2.6). Includes 394 acres of rice and 273 acres of general crops that received 4417 acre-feet of water from Glenn-Colusa Irrigation District plant at Mile 154.8R.
h Additional acre-feet diverted: November 83.
i Additional acre-feet diverted: November 16.
j Additional acre-feet diverted: November 181 and December 111. An additional 25161 acre-feet were received from Butte Creek as follows: April 2674, May 4651, June 5220, July 3656, August 2773, September 2636, and October 2093.
k Formerly listed as W. H. Fischer.
m Additional acre-feet diverted: November 26.
n Formerly listed as J. O. Bentz.
p Combined acreage for Miles 149.7L and 150.0L.
q Additional acre-feet diverted: November 38.
r Additional acre-feet diverted: November 1
s Formerly listed as W. M. Edwards and Son.
t Quantities shown are diversions at Mile 154.75R to the Glenn-Colusa Irrigation District Canal. Additional acre-feet diverted: November 3021.
u Additional acre-feet diverted: November 15663. An additional 64866 acre-feet diverted by gravity from Stony Creek as follows: March 7350, April 30070, May 25790, June 1290, July 184, August 5, and October 37. An additional 1837 acre-feet diverted by plant on Colusa Basin Drain, Mile 29.8R (1.4). Includes 4417 acre-feet served to 394 acres of rice and 273 acres of general crops listed for Mile 124.2R. Includes 650 acre-feet served to 130 acres of general crops listed for Mile 112.4R.
v Glenn-Colusa Irrigation District served 17328 acre-feet of water to the Compton-Delevan Irrigation District.
w Includes the following acreage outside the district: general 497 and rice 1826. Includes 108 acres of rice that received 864 acre-feet of water from Mile 124.2R. This acreage also received an undetermined amount of water by controlled drainage. Of this acreage, 1031 was reused for duck ponds.
x Additional acre-feet diverted: November 4.
y Additional acre-feet diverted: November 2.
z Additional acre-feet diverted: November 5.
aa Includes 4 acres of Dennis Lands.
ab Plant moved from Mile 161.7L in 1956.
ac The 14" unit was installed in 1956.
ad Additional acre-feet diverted: November 12.
ae Replaces a 5" unit.
af Temporary installation for 1956.
ag Formerly listed as L. F. Bray.
ah New installation in 1956.
ai Includes 4 acres of Bulkely lands.

TABLE 201

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Red Bluff to Redding)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--GAGING STATION - SACRAMENTO RIVER NEAR RED BLUFF--	198.6												
C. T. Loftus	205.1L	1-4"	3	14	30	49	63	62	45	33	a 299	62	
--BEND FERRY BRIDGE--	207.0												
D. Mills	207.3L	1-8"		59	49	108	113	113	102	48	592	110	
D. Mills	207.5L	1-12"	24	131	124	188	275	219	146	62	1169	241	
G. Tetzlaff	209.0L	1-4"				NO DIVERSION							
Table Mountain Gun Club	210.0R	1-2½"					5	13	4		22	8	
J. F. Nunes	213.0R	1-7"				NO DIVERSION							
F. L. Jelly	213.5L	1-3"					8	9	6	4	27	20	
J. F. Nunes	216.0R	1-5"		1	8	21	25	72	27	13	167	16	
--JELLY FERRY BRIDGE--	216.0												
W. A. Hunaeus	216.4L	1-3"			4	7	16	10	8	3	b 48	13	
Haskonson Brothers	217.5L	1-5"	22	54	34	122	116	72	42	31	c 493	75	
J. L. Haskins	217.9L	1-6"		2		121	103	14	1	28	d 269	56	
Rio Alto Rancho	221.0R	1-18"		156	99	328	284	273	232	141	e 1513	498	
--BATTLE CREEK--	221.5L												
--COTTONWOOD CREEK--	222.2R												
--GAGING STATION - SACRAMENTO RIVER AT BALLS FERRY--	224.5												

TABLE 201

DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER (Red Bluff to Redding)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Sacramento	Number and Size or Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
C. D. Draucker (f)	228.0R	1-16"		88	129	171	288	168	87	29	960	100	
--ANDERSON BRIDGE--	232.9												
Floyd Leonard	233.5L	1-6"		3	12	26	34	42	35		152	65	
United States Plywood Corporation	234.0R	1-8"										g 10	
--CLEAR CREEK--	237.1R												
William Menzel Co., Inc.	240.2L	1-12"			76	288	393	327	141		1225	184	
Lou Gerard	240.3L	1-2"			4	7	6	4	2		23	5	
John Gladwell	240.4L	1-4"					1				1	3	
Anderson-Cottonwood Irrigation District	240.5L	4-16"		2155	2121	3529	3664	3563	3110	1447	h 19589	2293	
--GAGING STATION - SACRAMENTO RIVER NEAR REDDING--	240.7												
Riverview Golf Course	240.8L	1-4"	5	8	23	34	47	42	30	14	i 203	30	
--HIGHWAY 44 BRIDGE--	242.0												
--HIGHWAY 99 BRIDGE--	245.9												
Anderson Cottonwood Irrigation District	246.0R	Gravity	2058	22868	24185	24037	24868	24743	23602	24053	j,k 170414	20267	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	246.25												
Maybell Diestelhorst	246.3R	1-8"		4	14	30	38	26	28	18	m 158	22	
--OLD REDDING-YREKA BRIDGE--	246.4												
City of Redding	246.7R	3-8"	217	252	367	527	722	637	434	319	n 3475	Municipal	
--GAGING STATION - SACRAMENTO RIVER AT KESWICK--	250.5												
RED BLUFF TO REDDING													
Totals			2329	25795	27279	29593	31069	30409	28082	26243	200799	24078	0
Average cubic feet per second			38	434	444	497	505	495	472	427	413		
Monthly use in per cent of seasonal			1.2	12.8	13.6	14.7	15.5	15.1	14.0	13.1			
SACRAMENTO RIVER - SACRAMENTO TO REDDING													
Totals			13408	157388	307118	350177	395333	369731	175718	82774	1851647	155573	122641
Average cubic feet per second			218	2645	4995	5885	6429	6013	2953	1346	3810		
Monthly use in per cent of seasonal			0.7	8.5	16.6	18.9	21.3	20.0	9.5	4.5			

a Additional acre-feet divarted: November 1.
b Additional acre-feet diverted: November 2.
c Additional acre-feet diverted: November 23.
d Additional acre-feet diverted: November 11.
e Additional acre-feet diverted: November 36.
f Formerly listed as J. H. Trisdale.
g Log pond. No agricultural use.
h Additional acre-feet diverted: November 168.
i Additional acre-feet diverted: November 1, December 1, and February 1.
j Includes the following acre-feet of operational spill: April 179, May 7750, June 1600, July 1070, August 988, September 2184, and October 8245.
k An additional 9768 acre-feet was diverted in November of which 6207 acre-feet was operational spill.
m Additional acre-feet diverted: November 6.
n Additional acre-feet diverted: November 190, December 166, January 167, and February 163.

TABLE 202

DIVERSIONS AND ACREAGES IRRIGATED - COLUSA BASIN DRAIN*
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--GAGING STATION - COLUSA BASIN DRAIN AT KNIGHTS LANDING (KNIGHTS LANDING OUTFALL GATES)--	0.2S												
River Farms Company	0.3L	1-10" 1-20"				NO DIVERSION							
--KNIGHTS LANDING RIDGE CUT--	0.4R												
John J. Anderson	1.45R	1-16" a 1-20"		267	299	350	267	398	35		1616		222
John C. Cooling	4.2R (0.1)	1-16"				NO DIVERSION							
J. E. Taylor	4.2R (0.7)	1-12"		4	18	41	34	28	18		143	65	
B. C. and T. D. Tolson	4.2R (0.8)	1-18"				NO DIVERSION							
Layton Knaggs (b)	4.35R	1-20"				87	436	434			c 957	500	
Layton Knaggs (b)	7.2R	d 3-16"		33	1457	1262	1095	1325	696		5868	235	461
George E. Youngmark	8.8R	1-14" 1-16"		1	531	667	669	614	53		2535		425
Hershey Estate	11.15R	1-16" 1-18"		11	1022	1158	1329	1287	102	125	e 5034		f 645
Hershey Estate	13.75R	1-16"				NO DIVERSION							
C. M. Mumma	14.75R	g 1-16"			286	324	332	375	93		1410		113
--COUNTY LINE BRIDGE--	15.25												
J. V. Doherty	15.5R	1-12"				NO DIVERSION							
M. T. Emmert	15.75R	1-12"		240	699	738	820	744	41		h 3282		160
H. B. West, Jack Hughes, and Dr. R. C. West	18.1R	1-15" 1-20"			748	870	847	824	337		3626		h 540
James Iriart	18.5R (0.8)	1-14"		14	55	97	172	124	95		557	312	
--RECLAMATION DISTRICT 108 GRAVITY DRAIN--	19.9L												
Reclamation District 108	19.9L	1-16" 1-24" 1-30"				NO DIVERSION							
William West	20.0R	1-15"		1	1	13	265	172	179	80	711	285	
B. W. Whitmire and D. S. Adams	21.35R	2-16"		225	20	430			176	91	i 942	322	
Albert Brandenburg	22.15R	1-14"			377	292	269	304	149		1391	173	j 116
--GAGING STATION - COLUSA BASIN DRAIN NEAR COLLEGE CITY--	22.7												
Aileen Browning Armstrong	22.75R (0.1)	k 1-16"				5	52	64			121	100	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	23.6												
Balsdon Ranch	Opp. 24.6L (0.3)	2-16" 1-20"		60	294	315	1130	764	196	156	m 2915	n 1618	
Balsdon Ranch	24.6R (0.3)	2-16"				NO DIVERSION							
Luta King	25.1R	1-6"				NO DIVERSION							
Gertrude M. Sherer	25.3L	1-16"				28	68	56	19		171	104	
Gertrude M. Sherer	25.5R	1-10"				35	34				69	40	
--GRIMES - COLLEGE CITY CAUSEWAY--	25.5												
Fred Schutz	25.9L (0.2)	1-16" 1-20" 1-24"	6	43	45	75	71	26	40		306	180	
Roy E. Kitts	26.4R (0.1)	1-18"		1	356	224	220	224	136		1161	80	125
C. W. and M. P. Struckmeyer	27.25L (0.3)	1-16"	1	2	5	193	306	172	56	3	738	460	
William P. Wallace Ranch	28.0R	1-12" 1-16"				NO DIVERSION							
--WALLACE CROSSING (OLD MERIDIAN-WILLIAMS BRIDGE)--	29.2												
Olive Percy Davis, et al. (p)	29.79L	Gravity		24							q 24		
Olive Percy Davis, et al.	29.8R (0.4)	1-16"			484	762	522	514	202		2484		r 332
Fred Wilkins	29.8R (1.0)	1-14"				NO DIVERSION							
Glenn-Colusa Irrigation District	29.8R (1.4)	1-20" 2-38"		182	6	63	657	908	21		s 1837		
Olive Percy Davis, et al.	31.5L	1-24"				NO DIVERSION							
Olive Percy Davis, et al.	32.1R	1-16"			286	515	902	940	390		3033		t
Federal Fish and Wildlife Service	32.6R	1-16"				325	246	528	418	388	u 1905		v 300
J. G. Olvey	32.6L	1-14"			166	373	575	658	178	23	w 1973		x 112
Arata Brothers	32.9L	1-8"								12	y 12	z 25	
Richard Moore	33.5L	1-12" 1-16"									aa	z 5	

TABLE 202

DIVERSIONS AND ACREAGES IRRIGATED - COLUSA BASIN DRAIN* (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank **	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Federal Fish and Wildlife Service	36.65R	1-15" 1-20"		567	1301	1186	993	1182	1049	1090	ab 7368		v 710
Federal Fish and Wildlife Service	37.0L (0.1)	1-15"						621	703		ac 1324	v 270	
--GAGING STATION - COLUSA BASIN DRAIN AT HIGHWAY 20--	37.0												
I. G. Zumwalt	39.2L	8-20"	190	1425	1510	5079	4857	4262	1363		ad 18686	ae af 2476	af 1162
East Williams Landa Company	39.2R	1-16"			13	194	68				275	ag 95	ah 205
J. H. Cave	39.98R	1-10"			36	155	132	156	33	15	ai 527	ag 50	aj 50
A. E. Zaniboni and L. W. Seaver	40.0L	3-16"	126	690	487	827	940	728	501	182	ak 4481	630	af 100
J. H. Cave	40.5R	1-14"							5	50	am 55	ag 170	
Lloyd W. Seaver and F. J. Byington	41.5L	4-16"		1	1452	895	1070	1107	289		an 4814		ap 810
Coffman and Campbell	42.6L	1-16"				NO DIVERSION							
Louis O. Sutton	42.7R	1-16"				NO DIVERSION							
Watt Brothers	43.2L	2-16"				NO DIVERSION							
Watt Brothers	43.4R	1-12"				NO DIVERSION							
S. Ash	45.0L	2-16"		319	852	1000	749	670	168		3758		aq 370
Charles W. Welch	45.0R	1-15" 1-16"		20	559	498	488	540	129		2234		275
El Dorado Sportsmans Club	46.5R	1-16"					11	7	66	182	ar 266	ag 320	
I. G. Zumwalt	46.75L	1-24"				274					as 274	400	
Lloyd Kahn	47.5L (0.4)	2-16"		310	605	494	480	533	63		2485		270
Charles W. Welch	48.7R (0.2)	1-12"		181	372						at 553		
Charles W. Welch	48.7L (0.3)	1-12"		82	14						at 96		
Charles W. Welch	48.7R (0.8)	1-14" 1-16" 2-20"		375	1078	975	1210	1293	929	766	au 6626	ag 600	400
Del Valley Farms, Incorporated	49.1R	1-10"		13	342	176	299	283	13	9	av 1135		aw 110
Lynn and Bohne	49.58L (0.9)	1-10" 1-12"				NO DIVERSION							
Leo Yates (ax)	49.59R	1-12"								109	ay 109	ag 84	
Helphenstine Rice Lands	49.69L	1-16"			836	708	652	622	223		az 3041		ba 255
E. Butler, E. Meyer, and J. Jones	49.7L	1-14"		121	231	350	386	348	59	29	bb 1524	ag 17	118
Manuel Barrett	Opp. 53.6R (1.3)	1-12"			207	221	268	266	67		1029		140
Princeton-Codora-Glenn Irrigation District	54.2L	2-18"		667	2284	2351	2339	1800	280		9721	bc	bc
John S. Lopes	54.9R	1-12"				NO DIVERSION							
J. P. Cardoza	55.0R	1-4"	3	4	27	25	23	20	8	17	bd 127	5	aj 11
Provident Irrigation District (Willow Creek Plant)	Opp. 57.5R (2.4)	1-24" 1-36"		5							be 5		
--LATERAL HIGHWAY - BUTTE CITY TO WEST SIDE--	57.5												
Walter McGowan	58.4L	1-8" 2-16"			656	606	616	578	211		2667		156
Joe Navarro	59.0R	1-18"		531	732	691	734	620	36		3344	85	300
Provident Irrigation District (Drain #55)	Opp. 61.2R (1.5)	Gravity		3688	8095	6492	7208	7545	6146	3358	bf 42532		
Dorothy Foote	62.4L	1-16"				NO DIVERSION							
Provident Irrigation District	Opp. 62.8L (2.5)	2-16"		301	541	528	1237	599	205	58	be 3469		
Terrill Knight	63.2L	1-12" 1-16"		30	408	307	512	436	130		1823		200
John M. Demmer and Mary R. Bohach	64.1L	1-12" 1-14"			466	403	357	433	248		1907	50	ba 143
Provident Irrigation District (Colusa Drain)	64.2R (0.1)	1-20" 1-24"				NO DIVERSION							
Provident Irrigation District (Drain #13)	Opp. 64.2R (2.6)	1-16" 1-20" 1-24"	75	973	1823	1750	1800	1879	658		be 8958		
Provident Irrigation District (Drain #13)	Opp. 64.2R (2.6)	Gravity		920	2129	1467	1889	1310	1314	1123	be bg 10152		
COLUSA BASIN DRAIN													
Totals			401	12331	34211	36894	40636	39321	18526	7866	190186	9756	9336
Average cubic feet per second			7	207	556	620	661	639	311	128	391		
Monthly use in per cent of seasonal			0.2	6.5	18.0	19.4	21.4	20.7	9.7	4.1			

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TABLE 202

DIVERSIONS AND ACREAGES IRRIGATED - COLUSA BASIN DRAIN* (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

* Formerly called Back Borrow Pit below Mile 37.0 and Colusa Trough above Mile 37.0. 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 Replaces a 16" unit.
b Formerly listed as W. Crawford.
c Additional acre-feet diverted: November 380 and December 164.
d Two 16" units were installed in 1956.
e Additional acre-feet diverted: November 76 and December 118.
f Of this acreage, 60 was reused for duck ponds.
g Replaces a 10" unit.
h The acreage listed for Mile 18.1R also received an undetermined amount of water from Mile 15.75R.
i Additional acre-feet diverted: November 13 and December 31.
j Includes 60 acres of Lundeen lands.
k One 14" unit was removed in 1956.
m Additional acre-feet diverted: December 166.
n Of this acreage, 137 also received an undetermined amount of well water.
p Installed prior to 1956. No previous diversion.
q This water served to acreage listed for Mile 78.8R, Sacramento River.
r Combined acreage for Miles 29.8R (0.4) and 32.1R. Includes 60 acres of Federal Fish and Wildlife Service lands.
s This water served to acreage listed for Mile 154.8R, Sacramento River.
t Combined acreage for Miles 29.8R (0.4) and 32.1R.
u Additional acre-feet diverted: November 324 and December 165.
v All duck refuge lands.
w Additional acre-feet diverted: November 26 and December 37.
x Of this acreage, 20 was reused for duck ponds.
y Additional acre-feet diverted: November 14.
z All duck club lands.
aa Acre-feet diverted: January 5.
ab Additional acre-feet diverted: November 406 and December 240.
ac Additional acre-feet diverted: November 7.
ad Additional acre-feet diverted: November 229.
ae Of this acreage, 400 was reused as duck club lands.
af This acreage also received an undetermined amount of water from controlled drainage.
ag All duck club lands.
ah This acreage also received an undetermined amount of water from Salt Creek and was reused as duck club lands.
ai Additional acre-feet diverted: November 33.
aj This acreage was reused as duck club lands.
ak Additional acre-feet diverted: November 55.
am Additional acre-feet diverted: November 10.
an Additional acre-feet diverted: November 8.
ap Includes 33 acres Harbison lands, 277 acres Coffman lands, 225 acres Coffman and Campbell lands, and 275 acres Seaver lands. Includes 63 acres which also received an undetermined amount of water from controlled drainage.
aq Of this acreage, 25 was reused as duck club lands.
ar Additional acre-feet diverted: November 40.
as Additional acre-feet diverted: December 114.
at This water was served to acreage listed for Mile 103.7R, Sacramento River.
au Additional acre-feet diverted: December 242.
av Additional acre-feet diverted: November 32 and December 33.
aw Of this acreage, 35 was reused for duck ponds.
ax Formerly listed as Lynn and Bohne.
ay Additional acre-feet diverted: December 13.
az Additional acre-feet diverted: November 14 and December 15.
ba Of this acreage, 15 was reused as duck club lands.
bb Additional acre-feet diverted: November 4 and December 3.
bc See plant on Sacramento River at Mile 112.4R.
bd Additional acre-feet diverted: November 22 and December 22.
be This water was served to acreage listed for Mile 124.2R, Sacramento River.
bf Additional acre-feet diverted: November 1769 and December 660.
bg Additional acre-feet diverted: November 957 and December 474.

TABLE 203

DIVERSIONS AND ACREAGES IRRIGATED - KNIGHTS LANDING RIDGE CUT
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--STATE HIGHWAY 24 BRIDGE--	0.3												
--SOUTHERN PACIFIC RAILROAD BRIDGE--	0.7												
E. L. Wallace	0.8R	1-16" 1-20"		256	627	578	904	1213	274		3852	a 1104	a 300
M. R. Richardson	0.82L	1-14"		48	387	291	285	288	154		1453	140	60
--RECLAMATION DISTRICT 730 DRAINAGE PLANT #2--	3.2R												
Ralph W. Pollock	3.5L	Gravity				15	34	50	19		118	65	
W. K. Lowe	4.3R	3-16"				NO DIVERSION							
Ralph W. Pollock	4.55L	1-16"				24	16	21			61	83	
Albert Bacchini	4.7R	1-6"			6	12	9	6			33	23	
Hershey Estate	4.75L	1-24"		357	1022	1228	1088	967	114		4776		400
Layton D. Knaggs	5.25R	1-16"					240				240	195	
--WEST LEVEE YOLO BYPASS--	6.3												
Sacramento River Ranch	6.3L	Gravity			678	991	1462	1242	684		b,c 5057	b 1041	b 300
Hershey Estate	6.3	Gravity				127	244	628			999	c 1060	
Hershey Estate	6.3R	Gravity				NO DIVERSION							
KNIGHTS LANDING RIDGE CUT Totals			0	661	2720	3266	4282	4415	1245	0	16589	3711	1060
Average cubic feet per second			0	11	44	55	70	72	21	0	34		
Monthly use in per cent of seasonal			0	4.0	16.4	19.7	25.8	26.6	7.5	0			

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

a This acreage also received an undetermined amount of well water.
b Includes 4238 acre-feet of water served to 307 acres of general crops and 300 acres of rice in Reclamation District 1600.
c 400 acres listed for Mile 6.3 also received 264 acre-feet of water from Mile 6.3L.

TABLE 204

DIVERSIONS AND ACREAGES IRRIGATED - YOLO BYPASS (EAST BORROW PIT OF TULE CANAL)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Swanston Land Company	a 1.8S	1-16" 1-18"				NO DIVERSION							
Swanston Land Company (b)	a 1.5S	1-14"						24			24	30	
Swanston Land Company	a 1.1S	1-18" 1-20"				NO DIVERSION							
--GAGING STATION - YOLO BYPASS BELOW SACRAMENTO BYPASS--	1.0S												
Swanston Land Company	a 0.8S	c 1-14"					117	121			238	200	
Swanston Land Company	a 0.5S	1-14"				NO DIVERSION							
--NORTH LEVEE SACRAMENTO BYPASS - RECORDING GAGE--	0.0												
Swanston Land Company	a 1.8N	1-16" 1-20"			381	789	1204	1229	604		4207		542
Ensher, Alexander, and Barsoom	2.4N	1-20"		140	192	350	607	554	235		2078	644	158
--SACRAMENTO-WOODLAND HIGHWAY--	6.1SN												
--SACRAMENTO-WOODLAND RAILROAD BRIDGE--	6.2N												
City of Woodland	a 6.5N	d 1-16"				65	127	59			251	e 390	
--CACHE CREEK--	7.0N												
Hershey Estate	a 9.5N	1-16"				NO DIVERSION							
--KNIGHTS LANDING RIDGE CUT--	9.6N												
--RECLAMATION DISTRICT 1600 DRAINAGE PLANT--	10.0N												
YOLO BYPASS (EAST BORROW PIT OF TULE CANAL) Totals			0	140	573	1204	2055	1987	839	0	6798	1264	750
Average cubic feet per second			0	2	9	20	33	32	14	0	14		
Monthly use in per cent of seasonal			0	2.1	8.4	17.7	30.2	29.2	12.4	0			

* 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.

a Indicates that land irrigated is within Bypass area.

b New installation in 1956. Listed as a temporary installation in 1954.

c Replaces a 16" unit.

d Replaces a 12" unit.

e The main source of water for this acreage is the Woodland Sewer Farm.

TABLE 205

DIVERSIONS AND ACREAGES IRRIGATED - LOWER BUTTE CREEK AND BUTTE SLOUGH
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
	*					Lower Butte Creek							
Reclamation District 1004	3.2R	1-14"				7	6				13	35	
Reclamation District 833	3.3L	1-16"				187	510	570	10		1277	625	
Colusa Shooting Club	4.1L	1-16"					161	12		344	a,b 517	160	
West Butte Farms Company	4.25L	1-18"				224	408	143			775	560	
Reclamation District 1004	4.3R	1-20" 1-24"			477	1084	1070	1079	534	206	c 4450	d,e 985	d 500
El Anzar, Incorporated	5.7L	1-12"					127				127	150	
Field and Tule (f)	7.1L	1-16"			91	304	435	339	148		1317		150
Field and Tule	7.5L	1-8" 1-16"					PLANT REMOVED						
Reclamation District 1004	11.8R (2.6)	Gravity				846	1418	179	942	4529	g 7914		
White Mallard Duck Club	11.8R	Gravity				79				100	179	100	
White Mallard Duck Club	11.8R (0.5)	1-12" 1-16"		51	252	136	230	248			h 917		i 70
Reclamation District 1004	Opp. 14.4R (0.2)	Gravity		891	333						j 1224		
Murdock Land Company	Opp. 14.4R (0.4)	1-14"					NO DIVERSION						
--GRIDLEY ROAD BRIDGE--	15.4												
Butte Basin Gun Clubs	15.6L	Gravity									k	a,m 4000	
Murdock Land Company	19.3R	1-16"			33	118	120	133	91	30	525	120	
--BIGGS-AFTON ROAD BRIDGE--	19.4												
Murdock Land Company	Opp. 19.6R (0.8)	1-14"					NO DIVERSION						
Homar and Homar A. Charles	Opp. 20.7R (0.8)	2-16"			17	51	50	37		90	245	n 120	
McGowan Brothers	Opp. 20.9R (0.5)	p 1-16"			343	426	383	596	348		2096		100
McGowan Brothers	21.0R	q 1-20"		185	587	874	908	919	293		3766		270
E. McPherrin	21.1L	1-16" 1-20"		482	2063	2117	2161	2217	753		9793		r 797
R. H. Hulen Estate	Opp. 21.4R (1.0)	1-16"		94	177	179	292	315	46		1103		60
McGowan Brothers	Opp. 22.4R (0.7)	1-16"				53			38		91	30	
McGowan Brothers (s)	Opp. 22.4R (1.1)	1-16"		68	253	345	343	322	150		1481		110
--RICHVALE-BUTTE CITY ROAD BRIDGE--	22.5												
McGowan Brothers	23.0R	1-16" 1-20"					NO DIVERSION						
Harris Lands	23.0L	1-16"		44	40	76	73	63	46	11	t 353	80	
McGowan Brothers	Opp. 23.0R (0.75)	1-16"					NO DIVERSION						
McGowan Brothers	Opp. 23.5R (1.2)	q 1-16"		173	180	326	355	329	148		1511		100
McGowan Brothers	Opp. 24.0R (0.5)	q 1-16" 1-20"		353	513	677	760	703	147		3153		320
Ruth Baldwin and Charles K. Layton	Opp. 25.6L (0.6)	r 2-16"			1084	918	1180	1402	430		5014		420
--WESTERN CANAL DAM--	30.3												
	**					Butte Slough							
--SACRAMENTO RIVER JUNCTION--	0.0												
Butte Slough Irrigation Company	0.0	Gravity									u		
M. Marty	0.3W	1-10"		3	34	70	123	87	103	74	v 494	278	
--BUTTE CREEK--	0.6E												
Mrs. Mamie M. Smith	0.9E	1-7"				56	114	66			236	w 250	
Joe Marty	1.0W	1-6"			21	27	57	44	41		190	45	
Mrs. Mamie M. Smith	1.4E	1-8"				38	125	74			237	w	
Fred Tarke	1.9W	1-14"					NO DIVERSION						
--MAWSON BRIDGE--	2.1												
C. W. Rawley	2.5W	1-14"				174	66	32	11		283	x 294	
J. E. Smith	3.0W	1-10"				29	150	84			263	y 109	
Pearl Clark and Alice Brewer	3.5W	1-10"			6	55	39	49	20	13	182	72	
P. A. Reische	3.7W	1-10"				2	6	15			23	37	
Granniman and Fieth	4.08W	1-6"				5	2	2			9	6	
P. A. Reische	4.1W	1-10"					56	5	1		62	94	
W. J. Hankins	4.8W	1-12"				173	28	54			255	z 310	
P. B. Hensen	5.1W	1-12"		25	22	81	45	120	22		z 315	57	

TABLE 205

DIVERSIONS AND ACREAGES IRRIGATED - LOWER BUTTE CREEK AND BUTTE SLOUGH (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
LOWER BUTTE CREEK AND BUTTE SLOUGH													
Totals			0	2369	6526	9737	11801	10238	4322	5197	50390	8517	2897
Average cubic feet per second			0	40	106	164	192	167	73	88	104		
Monthly use in per cent of seasonal			0	4.7	13.0	19.3	23.4	20.3	8.6	10.7			

* Mileage on Butte Creek is from its junction with Butte Slough at Mile 0.6E.
** Mileage on Butte Slough is from its junction with Sacramento River at Mile 84.0L.
a 540 acres listed for Mile 15.6L also received 344 acre-feet of water from Mile 4.1L.
b Additional acre-feet diverted: November 22.
c Additional acre-feet diverted: November 146 and December 177. The November and December diversion was served to 500 acres of rice land, used for duck ponds, listed for Mile 89.25L, Sacramento River.
d 375 acres of rice and 240 acres of general crop listed for Mile 4.3R also received an undetermined amount of water from Mile 11.8R (2.6), Mile 89.25L on the Sacramento River, and controlled drainage.
e Includes 785 acres reused for duck ponds of which 240 acres also received an undetermined amount of water from Mile 89.25L on the Sacramento River.
f Replaces plant formerly listed as Mile 7.5L.
g Additional acre-feet diverted: November 3000 and December 1500. This water was served to acreage listed for Mile 4.3R and Sacramento River Mile 112.1L.
h Additional acre-feet diverted: December 149.
i This acreage was reused for duck ponds.
j This water was served to acreage listed for Sacramento River, Mile 112.1L.
k Estimated acre-feet diverted: November 3000, December 1500.
m All duck club lands.
n Includes 20 acres of duck club lands.
p A 16" portable unit was also operated at this location during 1956.
q A 14" portable unit was also operated at this location during 1956.
r This acreage also received an undetermined amount of well water for flooding only.
s New installation in 1956.
t Additional acre-feet diverted: November 17.
u Flow in Butte Slough derived from Butte Creek is controlled by outfall gates at junction with Sacramento River and is thereby retained in Butte Slough to discharge into East and West Borrow Pits of Sutter Bypass near "Long Bridge." The outfall gates are maintained by the Department of Water Resources and are operated cooperatively with the Butte Slough Irrigation Company. See Sutter Bypass Diversions.
v Additional acre-feet diverted: November 10.
w Combined acreage for Miles 0.9E and 1.4E.
x Includes 17 acres of Straub lands and 19 acres of Miller lands.
y Includes 18 acres of Straub lands and 19 acres of Miller lands.
z The acreage listed for Mile 4.6W also received an undetermined amount of water from Mile 5.1W.

TABLE 206

DIVERSIONS AND ACREAGES IRRIGATED - SUTTER BYPASS AND SACRAMENTO SLOUGH
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
	*			West Borrow Pit of Sutter Bypass (a)									
--SOUTHERN PACIFIC RAILROAD BRIDGE--	2.5												
C. Fred Holmes	b 8.0R	1-18"				NO DIVERSION							
--STATE HIGHWAY 24 CAUSEWAY--	12.7												
Sutter Mutual Water Company	17.5R	1-18"				NO DIVERSION							
--SOUTH LEVEE OF TISDALE BYPASS--	18.9R												
--RECLAMATION DISTRICT 1660 GRAVITY DRAIN--	19.3R												
C. Guisti and Sons	23.7R	1-16" 1-24"		449	933	941	1055	1385	448		5211	625	235
Butte Slough Irrigation Company Limited	25.0R	Grevity		230	279	360	499	460	54		1882	c	c
Butte Slough Irrigation Company Limited	28.4R	Gravity		888	1063	1468	1779	1686	342		7226	c 4408	c 391
Fred Tarke	28.6R	1-4"				25	25				50	50	
Frye Brothers	29.0R	1-7"				18	13	16			47	21	
--STATE HIGHWAY 2 BRIDGE--	29.1												
Fred Tarke	29.2R	1-10"				5	28	9	1		43	47	
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	29.25												
	**			East Borrow Pit of Sutter Bypass (a)									
R. E. Hughes #8	b [illegible].95S	1-16"		84	24	13	216	38			375	220	
T. H. Richards	0.5S	1-18"			779	1096	1249	1513	422		5059		295
--WILL[illegible]W SLOUGH--	0.0												
R. E. Hughes #7	b 0.5N	d 1-14" e 1-16"			771	696	782	867	178		3294	50	350
--RECLAMATION BOARD DRAINAGE PLANT #1--	1.4N												
Cliff P. Chilliers	[illegible](0.3)	f 1-14" 1-16"		185	611	474	566	536	89		2461		200
Cliff P. Chilliers	[illegible].2	1-16"				NO DIVERSION							
E. H. Christensen and [illegible]s	[illegible]1.3	1-16"			737	891	1013	991	239		3871		260
E. H. [illegible]hristensen and [illegible]ns	[illegible]1.7S	1-16"				NO DIVERSION							
E. H. Christensen [illegible]	[illegible]2.[illegible]	1-12"		91	255	336	495	407	62		1646		150

TABLE 206

DIVERSIONS AND ACREAGES IRRIGATED - SUTTER BYPASS AND SACRAMENTO SLOUGH (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
	**		East Borrow Pit of Sutter Bypass (a) (contd.)										
E. H. Christensen	8(3.3)	1-12" 1-16"		254	1555	1390	1430	1443	397		6469		490
E. H. Christensen	8(4.0)	1-18"				NO DIVERSION							
Rai Brothers	8(4.3)	1-12"				NO DIVERSION							
E. H. Christensen	8(4.35)	g 1-14"			12	149	279	236			676	300	
R. E. Hughes #6	b 1.5N	d 1-14" 1-16"			89	71	193	43			396	140	
R. E. Hughes #5	b 2.9N	d 2-14"				209	157	346			712	340	
Leona Hughes	b 4.0N	1-14" 1-16"		97	189		259	179			724	370	
--STATE HIGHWAY 24 CAUSEWAY--	4.3N												
Leona Hughes	b 4.5N	h 1-14"			47		153	120			320	184	
Ira Mulligan	5.7N	1-16"				274	500	252			1026	400	
R. J. Hughes #2	b 5.9N	1-14"				23	47	239			309	360	
J. Etcheverry	5.91N	1-14"			552	583	769	705	26		2635	155	205
O. O. Orrick	b 6.9N	2-16"				74	119				193	200	
Ira Mulligan	7.1N	1-16"			263	564	783	942	308		2860	i 120	i 350
--GILSIZER SLOUGH--	8.0N												
O. O. Orrick	b 8.0N (0.45)	1-16"			385	220	320	418	131		1474		116
Crepps and Middleton	b 9.99N	1-15"			164	210	222	226	59		j 881		79
Crepps and Middleton	b 10.0N	1-16"						12	357	227	k 596	j,m 400	
--RECLAMATION BOARD DRAINAGE PLANT #2--	10.0N												
Crepps and Middleton	88 (0.3)	1-12"			224	340	375	337	199		1475		51
Dettling Brothers	88 (0.9)	1-20"		377	914	1043	1105	1144	371		4954		443
Rodeo Rooster Club	88 (1.5)	1-3"				NO DIVERSION					n		
Sutter Extension Water District	88 (2.0)	1-20" 1-30"		486	587	543	698	2534	385		5233	p	p
Ira Mulligan	88 (2.3)	1-10"				NO DIVERSION						15	
Ira Mulligan	88 (2.5)	1-16"			545	565	563	106			1779	i	i
Bridge Investment Company	88 (2.6)	1-16" 1-20"		77	242	581	808	696	122		q 2526	692	
Bridge Investment Company	88 (2.65)	1-14" 1-20"		30	1158	720	711	685	318		3622		320
Bridge Investment Company	88 (3.0)	1-12"			16	147	110	50	32		r 355	133	
Guisti and DeMartini	88 (3.5)	1-16"				PLANT REMOVED							
Percy Davis	88 (4.5)	1-12"		49	59	108	81	78	90	30	s 495	120	
Sutter Extension Water District	88 (6.7)	1-20"					38	1089	4		1131	p	p
Federal Fish and Wildlife Service	b 11.5N	1-10"					224	340	313	277	1154	t 300	
Federal Fish and Wildlife Service	b 12.0N	1-6"				PLANT REMOVED							
Federal Fish and Wildlife Service	b 16.3N	1-20" Gravity			1129	948	1002	1020	1145	1149	u 6393	t 550	t 200
R. A. Schnabel	b 16.4N	1-14"			4	38	30	21	16	26	135	v 35	
--WADSWORTH CANAL--	16.5N												
R. A. Schnabel	v (1.0L)	1-16"					151		42		193	160	
Fred S. Betty	v (1.0R)	1-10"		50	24	85	69	56	74	10	368	60	
H. T. and H. O. Brown	v (1.35R)	1-10" 1-12"				NO DIVERSION							
A. H. Muns	v (1.36R)	w 1-16"			529	650	683	632	251		2745		x,y 224
Vesper Kellogg	v (1.5L)	1-14"					45	19			64	60	
Albert Thomasen	v (1.7R)	1-16"			246	253	304	275	24		x 1102	40	
--STATE HIGHWAY 20 BRIDGE--	(2.0)												
Epperson, Kennedy, and Joaquin	v (2.5R)	1-10"		26	164	118	128	114	58		608		z 30
Clara Farrington	v (2.5R)	1-10"		10							z 10		
Youill Joaquin	v (3.0L)	1-14"				NO DIVERSION							
Gerald F. Raub (aa)	v (3.6R)	1-10" 1-16"		8	17	33	54	32	27		171	75	
--GAGING STATION - WADSWORTH CANAL AT BUTTE HOUSE ROAD--	(3.6)												
--RECLAMATION BOARD DRAINAGE PLANT #3--	16.7N												

TABLE 206

DIVERSIONS AND ACREAGES IRRIGATED - SUTTER BYPASS AND SACRAMENTO SLOUGH (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
	**		East Borrow Pit of Sutter Bypass (a) (contd.)										
Fred S. Betty	vv (0.9)	1-8"		30	35	65	61	57	66		314	90	
Fred S. Betty	vv (1.0)	1-10"		14	13	23	24	17	21		112	15	
Fred S. Betty	vv (1.3)	1-14"			213	409	443	486	287		1838		109
Fred S. Betty	vv (1.4)	1-16"			313	403	427	453	234		1830		120
Mrs. H. C. and C. H. Epperson	vv (1.49)	1-10"				110	98				208	145	
Mrs. H. C. and C. H. Epperson	vv (1.5)	1-20"				NO DIVERSION							
H. C. and C. H. Epperson	vv (1.51)	1-16"				NO DIVERSION							
T. Bihlman	vv (1.85)	a b 2-14"			314	370	362	365	129		ac 1540		ad 126
Mrs. H. C. and C. H. Epperson	vv (2.65)	1-8"				NO DIVERSION							
Elden Tarke	vv (3.0)	1-16"					69				69	100	
Edward Dean	b 16.7N	1-12"				24	91	40	67	63	ae 285	v 50	
Edward Dean	b 16.75N	1-16"				NO DIVERSION							
Frye, Bryant, and Frye	b 18.6N	1-20"				NO DIVERSION							
Epperson, Myers, DeWitt, and Middleton	19.1N	1-12"				355	424	351			1130	af 723	
T. S. Madden	19.9N	1-16"		196	520	532	535	571	154		2508		160
--STATE HIGHWAY 20 BRIDGE--	19.98N												
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	20.0N												
	***					Sacramento Slough							
C. Fred Holmes	1.4R	1-12"				NO DIVERSION							
SUTTER BYPASS AND SACRAMENTO SLOUGH Totals			0	3631	15974	18553	22664	24637	7542	1782	94783	11753	4906
Average cubic feet per second			0	61	260	312	369	401	127	29	195		
Monthly use in per cent of seasonal			0	3.8	16.8	19.6	23.9	26.0	8.0	1.9			

* Mileages on West Borrow Pit are given northerly from drainage plant of Reclamation District 1500. Mile 9.15 on West Borrow Pit is opposite Chandler.
** Mileages on East Borrow Pit are given northerly or southerly from Chandler.
*** Mileages on Sacramento Slough are given easterly from drainage plant on Reclamation District 1500 which is at head of slough.
@ Plant is on the main drainage canal for Drainage Plant #1 that joins East Borrow Pit, Sutter Bypass at Mile 1.4N. Figure in ( ) indicates distance along drain from East Borrow Pit.
@@ Plant is on drain canal for Drainage Plant #2 that joins East Borrow Pit, Sutter Bypass at Mile 10.0N. Figure in ( ) indicates distance along drain from East Borrow Pit.
v Plant is on Wadsworth Canal which joins East Borrow Pit, Sutter Bypass at Mile 16.5N. Figure in ( ) indicates distance along creek from East Borrow Pit.
vv Plant is on Poodle Creek which joins East Borrow Pit, Sutter Bypass at Mile 16.7N. Figure in ( ) 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 Combined acreage for Miles 25.0R and 28.4R.
d The 14" unit was a temporary installation during 1956.
e Replaces a 20" unit.
f New installation in 1956.
g Replaces a 16" unit.
h A 15" unit was removed in 1956.
i Combined acreage for Miles 7.1N and @@ (2.5).
j The acreage listed for Mile 10.0N also received 59 acre-feet of water from Mile 9.99N.
k Additional acre-feet diverted: November 32.
m All duck club lands.
n Acre-feet diverted: November 10.
p See plant on Feather River at Mile 38.1R.
q Additional acre-feet diverted: November 46.
r Additional acre-feet diverted: November 13.
s Additional acre-feet diverted: November 14.
t All duck refuge lands.
u Additional acre-feet diverted: November 893 and December 446.
v This acreage was reused for duck ponds.
w Replaces a 14" unit.
x The acreage listed for Mile v(1.36R) also received 1020 acre-feet of water from Mile v(1.7R).
y Includes 75 acres of Thomasen lands, 135 acres of Kennedy lands, and 14 acres of Kellogg lands.
z The acreage listed for Mile v(2.5R) plant of Epperson, Kennedy, and Joaquin received 10 acre-feet of water from Mile v(2.5R) plant of Clara Farrington.
aa Formerly listed as Gilbert Williamson.
ab One 14" unit was a temporary installation during 1956.
ac Additional acre-feet diverted: November 11 and December 4.
ad Includes 10 acres reused for duck ponds.
ae Additional acre-feet diverted: November 21 and December 9.
af Includes acreage as follows: Epperson 235, Middleton 135, W. Nall 105, Madden 98, C. and L. DeWitt 55, M. G. DeWitt 48, and Myers 47.

TABLE 207

DIVERSIONS AND ACREAGES IRRIGATED - FEATHER RIVER
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Walter Raymond	[illegible].6R	1-2[illegible]"						178			178	260	
Walter Raymond	1.0R	1-16"						104	7		111	320	
Kipp and Reith	2.[illegible]L	1-18"			60	74	155	112	85		486	170	
Walter Raymond	2.6R	2-2[illegible]"					276	877	37	7	1197	830	
John C. Johnston	3.[illegible]L	1-1[illegible]"				NO DIVERSION							
Walter Raymond (a)	4.[illegible]R	1-6"						20			20	60	
[illegible]. R. Tiedemann Son	5.2L	1-12"					19	50			69	70	
White Oak Ranch	5.6L	1-14"				37	246	154	64	51	552	225	

TABLE 207

DIVERSIONS AND ACREAGES IRRIGATED - FEATHER RIVER (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
A. L. Haymore	6.44L	1-10"				NO DIVERSION					b		
M. Scheiber	7.7L	1-10"					31	52			83	88	
--GAGING STATION - FEATHER RIVER AT NICOLAUS--	9.2L												
--NICOLAUS BRIDGE--	9.4												
T. H. Richards	9.75R	1-20"				NO DIVERSION							
--MOUTH OF BEAR RIVER--	12.0L												
Garden Highway Mutual Water Company	13.1R	2-20" 1-24"		228	3646	2643	3316	2585	1214		13632	1934	1397
Farm Lands and/or Plumas Mutual Water Company	17.5L	2-20"		861	1503	2063	2022	2287	922	418	c 10076	1735	305
Oswald Water District	21.4R	2-16"				515	467	359	96		1437	d 762	
R. J. De Gloria (e)	21.9L	1-6"				4	8	4	7	1	24	23	
--GAGING STATION - FEATHER RIVER BELOW SHANGHAI BEND--	23.0R												
Earl R. Huffmaster	25.2R	1-10"				NO DIVERSION							
--MOUTH OF YUBA RIVER--	27.3L												
--GAGING STATION - FEATHER RIVER AT YUBA CITY--	28.0R												
--10TH STREET HIGHWAY BRIDGE--	28.2												
Thomas, Perone, Campisi, Perrucci, and Ghandler	31.2R	1-2½"				NO DIVERSION							
Thomas, Perone, Campisi, and Perrucci	31.2R	1-4"					1				1	110	
Ray Ghandler	32.3R	1-10"				NO DIVERSION							
Henry Everett	33.2R	1-4"					1	1			2	10	
A. A. Sligar and Son	33.2L	2-3"				NO DIVERSION							
G. D. Prindiville	33.3R	1-10"	34	16		78	122	22			272	126	
J. L. Sullivan, Jr.	33.9R	1-10"	29	63		83	89	57			321	150	
Sutter Extension Water District	38.1R	1-26" 2-42"				36	83	2			123	f,g 2517	f,g7897
La Finca Orchard	38.5L	1-5"				NO DIVERSION							
--HONCUT SLOUGH--	43.7L												
Mathews, Sullivan, and Prindiville	*(0.4L)	1-18"	77	74		215	194	80			640	284	
Jesse Frakes	*(1.2L)	1-8"	14			40	50	17			121	60	
Ray Washburn	*(1.25L)	1-8"	3	8	12	77	72	34	31	7	h 244	108	
W. R. Madsen	44.0R	1-4"		4		9	4	10	3		30	51	
W. Earl Willey	44.5R	1-7"				22	11	11			44	27	
Herringer Enterprise	46.3L	1-20" 1-24"	27	53	55	594	990	1157	748		3624	1221	
Manuel Aguiar	47.4L	1-7"					6		15		21	i 60	
Manuel Aguiar	47.9L	1-12"			6	55	140	72	60		i 333	j 252	
Robert S. Biggs	48.0L	1-7"					100	47			147	167	
Robert S. Biggs	48.3L	1-10"				34	99	63			196	237	
Bowers Ranch	49.0L	1-8"				71	62	11	15		159	99	
--GRIDLEY BRIDGE - GAGING STATION - FEATHER RIVER NEAR GRIDLEY--	49.7												
Roy Mathews (a)	49.7L	1-6"				17	14	12	9		52	k 22	
Robinson Estate	50.4L	1-14"			87	66	70	93			316	k 256	k 82
M. A. Pedroza and Sons	50.7L	1-6"		17	19	85	64	63	35	13	296	94	
S. T. Machado	50.7R	1-8" 1-10"				NO DIVERSION							
Frank E. Norton	51.0R	1-6"				NO DIVERSION							
A. E. Bettencourt	51.0L	1-6"				NO DIVERSION							
Steadman Orchards	51.4R	1-10"				NO DIVERSION							
Chester L. Hoar	51.6R	1-6"				NO DIVERSION							
S. J. and J. R. Fratus	52.1L	m 1-8" 1-10"			293	353	366	365	134	30	1541	n 70	n 65
S. J. and J. R. Fratus	52.2L	1-5"			46						46	n	n
Mart Butler	52.5L	1-7"		21	39	37	59	49	27	12	p 244	77	
Moe Fruitman (q)	52.7L	1-8"				23	20				r 43	40	

TABLE 207

DIVERSIONS AND ACREAGES IRRIGATED - FEATHER RIVER (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
Hearst Magazines, Incorporated	55.1L	1-14"				NO DIVERSION							
--SUTTER BUTTE CANAL COMPANY DAM--	57.9												
Henry Haselbusch	57.9R	1-9"			21	23	31				75	48	
Sutter Butte Canal Company	s 58.1R	Gravity	9836	22011	18863	22875	23710	19751	20481	22342	t 159869	13154	1917
Biggs-West Gridley Water District	s 58.1R	Gravity	1250	12363	26590	24589	26979	25706	14289	3850	u 135616	4182	v 7012
Richvale Irrigation District	s 58.1R	Gravity		9277	25577	22223	22161	20699	7295		107232	367	11031
Sutter Extension Water District	s 58.1R	Gravity	1319	15933	34389	31966	30091	24890	11637	5560	w 155785	f	f
--WESTERN CANAL COMPANY DAM--	61.1												
Western Canal Company	61.2R	Gravity		4740	14196	19799	26803	26289	10044	8884	x 110755	2683	13860
--OROVILLE-RICHVALE HIGHWAY BRIDGE--	62.6												
--OROVILLE-CHICO HIGHWAY BRIDGE--	65.0												
--GAGING STATION - FEATHER RIVER NEAR OROVILLE--	71.0												
FEATHER RIVER Totals			12589	65669	125402	128708	138932	126283	67255	41175	706013	32949	43566
Average cubic feet per second			205	1104	2039	2163	2259	2054	1130	670	1453		
Monthly use in per cent of seasonal			1.8	9.3	17.8	18.2	19.7	17.9	9.5	5.8			

e Honcut Slough - Plant diverts Feather River water backed into slough. Mouth of slough at Mile 43.7L. Distance from Feather River and bank shown in ( ).
a New installation in 1956.
b Acre-feet diverted: November 25.
c Additional acre-feet diverted: November 19.
d Includes approximately 220 acres which also received an undetermined amount of well water.
e Installed prior to 1956. Not previously listed.
f Combined acreage for plant at Mile 38.1R, the Sutter Extension Water District diversion at Mile 58.1R, and the plants on Sutter Bypass, East Borrow Pit, at Mile 10.0N (2.0) and (6.7).
g This acreage also received an undetermined amount of controlled drainage water.
h Additional acre-feet diverted: November 12.
i 20 acres listed for Mile 47.4L also received an undetermined amount of water from Mile 47.9L.
j Includes 70 acres which also received an undetermined amount of well water.
k This acreage also received an undetermined amount of well water.
m Previously listed as a 10" and a 12" unit.
n Combined acreage for Mile 52.1L and 52.2L
p Additional acre-feet diverted: November 9
q Formerly listed as A. K. Johnson.
r Additional acre-feet diverted: November 4.
s This is a common point of diversion for Sutter Butte Canal Company, Biggs-West Gridley Water District, Richvale Irrigation District, and the Sutter Extension Water District.
t Additional acre-feet diverted: November 6315
u Additional acre-feet diverted: November 319.
v Includes 20 acres outside the District.
w Additional acre-feet diverted: November 1438
x Includes 8805 acre-feet of duck water in October. Additional acre-feet of duck water diverted: November 4122.

TABLE 208

DIVERSIONS AND ACREAGES IRRIGATED - YUBA RIVER
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above "D" Street	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--HIGHWAY 99E BRIDGE ("D" STREET)--	D.												
[illegible]	[illegible].9L	e 1-6" 1-10"				54	44	57		48	203	b 166	
--GAGING STATION - YUBA RIVER AT MARYSVILLE (ELLIS LAKE BRIDGE)--	[illegible].9												
[illegible]	1.4R	1-4"		2	3	5	4	5	1	1	21	8	
M. [illegible]. Harrington	1.8R	1-6"					26	27	13	13	79	44	
M. B. Harrington	2.2L	1-4" 1-5"				NO DIVERSION							
River Bend Ranch	3.0L	1-14"	13	37		82	246	188	14		580	c 180	
River Bend Ranch	3.1	1-12"				24	51			2	d 77	26	
E. [illegible]ke	4.1L	2-14"		53	159	248	321	159	5		945	190	
E. [illegible]ke	4.3L	1-14"				NO DIVERSION							
[illegible] Fruit Growers	4.75L	e 1-8"			37	85	23		2		147	f 215	
Scott Hendricks	6.4L	1-14"				NO DIVERSION							
--[illegible] DAM--	11.												
[illegible] Irrigation [illegible]	11.	Gravity	744	1744	14848	15336	17349	16789	11131	6246	g 94843	4913	h 2326
Cordua Irrigation District	11.	Gravity	222	561	11527	10893	11178	10523	7112	7550	i 64606	j 413	k 2516
Yuba Consolidated Gold Fields Company	14.5L	Gravity				NON-AGRICULTURAL USE							

TABLE 208

DIVERSIONS AND ACREAGES IRRIGATED - YUBA RIVER (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above "D" Street	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--HIGHWAY 20 BRIDGE--	17.1												
--NARROWS DAM--	22.8												
YUBA RIVER													
Totals			959	18113	26574	26727	29242	27748	18278	13860	161501	9872	4842
Average cubic feet per second			16	304	432	449	476	451	307	225	332		
Monthly use in per cent of seasonal			0.6	11.2	16.5	16.5	18.1	17.2	11.3	8.6			

a The 6" unit was installed in 1956.
b Includes 15 acres which also received an undetermined amount of well water.
c This acreage also received an undetermined amount of well water.
d All the water for October for nonagricultural use.
e Replaces a 6" unit.
f Includes 123 acres which also received an undetermined amount of well water.
g Additional acre-feet diverted: November 2918 and December 1027
h Of this acreage, 40 was reused for duck ponds.
i Additional acre-feet diverted: November 3227 and December 1726.
j Includes 300 acres outside of District of which 40 were reused for duck ponds. Includes 456 acres reused for duck ponds inside of District.
k Includes 53 acres outside of District and 1084 reused for duck ponds inside of District.

TABLE 209

DIVERSIONS AND ACREAGES IRRIGATED - BEAR RIVER
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--MARYSVILLE-NICOLAUS COUNTY ROAD BRIDGE--	2.7												
--SACRAMENTO NORTHERN RAILROAD BRIDGE--	3.4												
--WESTERN PACIFIC RAILROAD BRIDGE--	3.9												
--TROWBRIDGE-WHEATLAND COUNTY ROAD BRIDGE--	6.8												
Whitney Warren	7.8R	1-6"				NO DIVERSION							
W. H. Gilbert	8.1R	1-6"		4	14	2	1				21	a 50	
California Packing Corporation	10.7L	1-10"		96	79	150	174	156	42		697	a 230	
--HIGHWAY 99E BRIDGE--	11.3												
--GAGING STATION - BEAR RIVER NEAR WHEATLAND--	11.3												
--SOUTHERN PACIFIC RAILROAD BRIDGE--	11.35												
BEAR RIVER													
Totals			0	100	93	152	175	156	42	0	718	280	0
Average cubic feet per second			0	2	2	3	3	3	1	0	1		
Monthly use in per cent of seasonal			0	13.9	13.0	21.2	24.4	21.7	5.8	0			

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

TABLE 210

DIVERSIONS AND ACREAGES IRRIGATED - AMERICAN RIVER
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--GARDEN HIGHWAY BRIDGE--	0.2												
--HIGHWAY 40 AND 99E BRIDGE (16TH STREET)--	1.9												
--WESTERN PACIFIC RAILROAD BRIDGE--	2.1												
Joe Gomez	2.4L	1-5"		2	4	5	7	10	3		31	9	
North Sacramento Lands Company	2.65R	1-8"				NO DIVERSION							
North Sacramento Lands Company	2.75R	1-5"				6	7	4	5		22	32	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	3.0												

TABLE 210

DIVERSIONS AND ACREAGES IRRIGATED - AMERICAN RIVER (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--ELVAS FREEWAY BRIDGE--	3.2												
--GAGING STATION - AMERICAN RIVER AT SACRAMENTO (H STREET)--	6.0												
E. Clemens Horst Company	6.5R	1-6"			12	50	43	10	38	21	174	a 440	
E. Clemens Horst Company	7.5R	1-8"			9	62	54	8	46	25	204	a	
J. I. Haas, Incorporated	7.7R	1-4"				45	55	21	1	10	132	84	
Del Paso Rock Products Company	8.9R	1-1½"				NO AGRICULTURAL USE							
Walter J. Wissemann	9.0L	1-6"				35	43	30			108	37	
G. L. Browning	9.05R	1-5"			3	12	30	17	7		69	12	
J. G. and F. F. Dauenhauer	9.2L	b 1-4"				23	17	11	5		56	56	
Ruth Coleman	9.4L	1-5"					14	23			37	c 70	
Del Paso Rock Products Company	10.2R	1-8"		20	19	16	34	6	23		118	45	
Gold Nugget Orchard Company	10.4R	1-5"			1	30	20	14	4		69	17	
Mucke Sand and Gravel Company	11.2L	d 1-4"	1	2	2	5	7	8	5	4	e 34	24	
J. T. Gore	11.5L	1-4"				NO DIVERSION							
William A. Meyer	11.7L	1-4"				1	17	10	1	7	36	25	
Carmichael Irrigation District (f)	13.9R	1-14"			86	256	418	411	121		1292	h	
J. R. Deterding	15.8R	1-4"			7	21	12	13	7		60	55	
Carmichael Irrigation District	16.0R	1-6" 3-12"	30	214	421	861	905	809	679	400	g 4319	h 3655	
--GAGING STATION - AMERICAN RIVER AT FAIR OAKS--	19.2												
AMERICAN RIVER Totals			31	238	564	1428	1683	1405	945	467	6761	4561	0
Average cubic feet per second			1	4	9	24	27	23	16	8	14		
Monthly use in per cent of seasonal			0.5	3.5	8.3	21.1	24.9	20.8	14.0	6.9			

a Combined acreage of plants at Miles 6.5R and 7.5R. This acreage also received an undetermined amount of well water.
b Replaces an 8" unit.
c This acreage also received an undetermined amount of well water.
d Previously listed as a 6" unit.
e Additional acre-feet diverted: November 2.
f New installation in 1956.
g Additional acre-feet diverted: November 134.
h Combined acreage for Miles 13.9R and 16.0R. District is suburban land and no segregation of irrigated acreage is available. Also received an undetermined amount of well water.

TABLE 211

DIVERSIONS AND ACREAGES IRRIGATED - COSUMNES RIVER*
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--WESTERN PACIFIC RAILROAD BRIDGE--	0.4												
R. L. Deller	0.8R	1-12"			28	26	44	29	18	3	a 148	45	
R. L. Deller	1.7R	1-10"				NO DIVERSION							
Kenworthy and Patterson	2.0L	1-30"		7	449	437	450	449	242	1	2035	294	124
Desmond Ranch	2.8R	b 1-6"					16	31			47	125	
A. H. Watson	2.8L	1-8"				NO DIVERSION							
Desmond Ranch	3.1R	1-10"				NO DIVERSION							
--STATE HIGHWAY 104 BRIDGE--	5.3												
Fred [illegible]ary	6.4	1-3"					10				10	40	
L. C. Kirkeary and H. Trevor	[illegible]	1-16"					87	28		5	c 120	d 815	
Jack Lewin	[illegible]	1-6"			31	77	77	6	1	10	204	d 95	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	[illegible]												
--U. S. 99 AND 99 W HIGHWAY BRIDGE--	[illegible]												
--GAGING STATION - COSUMNES RIVER AT McCONNELL--	[illegible]												
J. C. Carli	14.3	1-10"				26	41	9			76	40	
J. C. Carli	14.4	1-10"				NO DIVERSION							
M. F. Lorkin	14.6L	e 1-5"				10	13				.3	f 45	

TABLE 211

DIVERSIONS AND ACREAGES IRRIGATED - COSUMNES RIVER* (contd,)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--FREEMAN ROAD BRIDGE--	14.9												
Ralph Nix	15.2L	1-8"				NO DIVERSION							
H. A. Saner	15.4R	1-8"				PLANT ABANDONED							
J. I. Nix	15.8L	1-6"				NO DIVERSION							
Ralph Nix (g)	15.9L	1-6"				10	8	8			26	15	
--WILTON ROAD BRIDGE--	16.8												
--CENTRAL CALIFORNIA TRACTION COMPANY RAILROAD BRIDGE--	16.8												
George D. Beitzel	18.2R	1-12"			4	40	96				140	d 163	
Bradley Ranch	18.9R	1-6"				NO DIVERSION							
Bright Estate	20.1R	1-10"			59	492	338	465	231	366	1951	300	
F. Barbero	21.6L	1-6"				14					14	d 30	
J. F. Patterson (h)	21.9R	1-6"			5	22	7				34	d 65	
Rooney Brothers	23.7R	1-12"				56	88				144	107	
Cothrin and Grimshaw	24.4R	1-8"				58	62	31	11		162	d 152	
--DILLARD ROAD BRIDGE--	24.8												
--RECORDING GAGE - COSUMNES RIVER NEAR SLOUGHHOUSE--	24.85												
P. Westerberg	25.5R	1-10"				105	64	10			i 179	d 125	
A. V. Signorotti	25.7R	1-3"				2	2	1			5	3	
F. M. Grimshaw	25.9R	1-8"					46	54			100	d 35	
A. V. Signorotti	26.3R	1-5"				8	11	4			23	17	
F. M. Grimshaw	26.4R	1-6"				NO DIVERSION							
G. C. Johnson	26.5L	1-6"				9	15	2			26	j	
G. C. Johnson	27.3L	1-5"				56	112	13	48		229	j 169	
R. Sartain	27.6R	1-5"				NO DIVERSION							
F. Silva, Jr.	27.8L	1-6" 1-8"				65	86	135	43		329	d 155	
R. Sartain	28.6R	1-5"					13		13		26	35	
Schneider Ranch	30.0L	1-8"	15	110	5	121	132	135	127	93	k 738	105	
--STATE HIGHWAY 16 BRIDGE--	31.3												
A. Granlees	32.6R	m 1-4"			10	73	61	42	35	21	242	40	
--GRANLEES DAM--	33.0												
Cosumnes River Water District	33.0R	Gravity			120	851	821	988	762	184	n 3726	625	
--GAGING STATION - COSUMNES RIVER AT MICHIGAN BAR--	34.3												
COSUMNES RIVER													
Totals			15	117	711	2558	2700	2442	1531	683	10757	3640	124
Average cubic feet per second			0	2	12	43	44	40	26	11	22		
Monthly use in per cent of seasonal			0.1	1.1	6.6	23.8	25.1	22.7	14.2	6.4			

* Diversions shown in this table below the McConnell gaging station are considered as Delta Uplands diversions. Tidal effect ceases at about Mile 3.5.
a Additional acre-feet diverted: November 9.
b Replaces a 12" unit.
c Additional acre-feet diverted: November 49 and December 126.
d This acreage also received an undetermined amount of well water.
e Portable unit which also diverted at Miles 14.4L and 15.3L.
f Includes 5 acres which also received an undetermined amount of well water.
g Temporary installation in 1956.
h Installed prior to 1956. Not previously listed.
i Additional acre-feet diverted: November 29.
j Combined acreage for Miles 26.5L and 27.3L. Includes 149 acres which also received an undetermined amount of well water.
k Additional acre-feet diverted: November 14.
m Replaces a 3" unit.
n This figure is the diversion entering the District under State Highway 16 and includes an undetermined amount of spill to the Cosumnes River at Mile 29.9R, but does not include the spill above Highway 16. Additional acre-feet diverted: November 167 and December 7.

TABLE 212

DIVERSIONS AND ACREAGES IRRIGATED - MOKELUMNE RIVER**
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
Egbert O. Morse	4.7R	1-12"					117	73			190	145	
--FRANKLIN-THORNTON HIGHWAY BRIDGE--	4.9												
--COSUMNES RIVER--	5.0R												

TABLE 212

DIVERSIONS AND ACREAGES IRRIGATED - MOKELUMNE RIVER** (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
--WESTERN PACIFIC RAILRAOD BRIDGE--	5.4												
Manuel Lopes	6.6R	1-12"	1	1	3	74	184	151	46	4	a 464	260	
Thornton Farms	6.9R	1-8"					5	6			11	13	
--GALT-THORNTON HIGHWAY BRIDGE--	7.0												
Thornton Farms	7.6R	2-12"		25	59	448	670	478	49		1729	b 868	
Thornton Farms	8.1R	1-12"				18	18	25			61	60	
Albin C. Steffan	8.7R	1-12"	23	63	127	149	152	142	126	78	860	97	
S. and J. Frandy	10.4L	1-12"	7	2	2	7	4	10	2	3	37	43	
Albin C. Staffan	10.6R	1-16"		155	560	557	537	463	375	185	c 2832	486	
A. Taddei (d)	14.2R	1-6"				26					26	e 21	
H. C. Braly	15.5R	1-3"	3	2	4	5	6	8	8	2	f 38	12	
A. Taddei	15.6R	1-6"					27	17	23		67	60	
R. J. Linda	16.8R	1-6"				48	48	3			99	114	
--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	3930	11380	15260	22160	25090	22200	14760	8660	g 123440	h 15900	h 1022
LeMoin Beckman	21.1L	1-5"					6	3			9	13	
Lewis D. Bridge	21.85R	1-6"				41	79	13			133	35	
Sidney Halsey	22.5R	1-5"						2	1		3	1	
J. B. Ballantine	22.7L	i					10	9			19	12	
L. R. Sanguinetti	23.4L	1-6"				2	2				4	6	
Nora E. Mumbert	23.4R	1-4"			2	32					34	15	
M. M. Bender	23.5R	1-4"				DOMESTIC USE ONLY							
--SOUTHERN PACIFIC RAILROAD BRIDGE--	23.6												
Ben Bechthold	24.0L	1-4"				9	6	5	1		j 21	15	
Ben Bechthold (k)	24.05L	1-4"									m	3	
--HIGHWAY 99 BRIDGE--	24.2												
Litts, Mullen, and Perovich	24.45L	1-5"			3	6	4				13	7	
Lawrence Ranch	24.5L	1-6" 1-10"		17	14	50	156	46	11	14	308	123	
S. and M. Miller	24.8L	1-6"		1				4	2		7	12	
Kirschermann and Mettler	25.2R	1-10"		90		4	5	5			104	67	
M. and N. Palmer	25.5L	1-4"					2	9	7		18	23	
--CENTRAL CALIFORNIA TRACTION COMPANY BRIDGE--	25.6												
Robart N. Lind	26.3L	1-5"	37		6	9					52	19	
Richard Wagers	n 26.35L	p 1-4"						1	2	1	4	3	
Vasco Mancarini	26.9R	1-5"				NO DIVERSION							
Irene Green	27.5L	1-5"						13			13	q 37	
R. J. Linde	27.6L	1-8"		14	1	15	6	2			38	20	
A. E. Joens	27.9L	1-10"	25	96		10	5				136	110	
Frankie G. Dick	28.5L	1-4"				NO DIVERSION							
P. T. Nakagawa, et al.	28.6R	1-6"			7	16	30	14	3		70	79	
L. J. Petereon	28.9L	1-4"				NO DIVERSION							
W. E. Mehlhaff	29.9R	1-8"	3	3	6	14	7	6	1		40	68	
E. Bender	30.0L	1-10"	2	3			10	31	12	17	r 75	30	
--BRUELLA ROAD BRIDGE--	30.0												
V. W. Hoffman and Sons	30.15R	1-5" 1-8"		13	9	46	49	45	11		173	71	
N. H. Davis	30.35R	1-6"		8	13	5	22	10	9	2	69	50	
J. J. Schmiedt	30.95L	1-7"						55			55	52	
Leon Kirschenmann and Leonard Frezzler, et al.	31.0L	1-8"		33	6	97	18	4			158	154	
Rose M. Soucie	31.7L	1-5"				NO DIVERSION							
John Graffigna	31.8R	1-7"				12	11	12			35	32	

TABLE 212

DIVERSIONS AND ACREAOES IRRIGATED - MOKELUMNE RIVER** (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - eee footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
Jones Ranch	32.0L	1-6"				NO DIVERSION							
L. J. Peterson	32.5L	1-5"		3	7	10	12	7	8	4	s 51	15	
Red Checker Land Company	32.75R	1-5"		1		32	33	13	2	1	82	t 108	
C. M. Locke	33.25L	1-10"		11		47	75	60	62	5	260	130	
Acampo Vineyards	33.45R	1-8"					18	9			27	20	
Acampo Vineyards	33.6R	1-8"	9	19	5	47	45	28	6	1	160	110	
Niel C. Locke	33.7L	1-12"	11	62	87	119	180	189	96		744	u 323	
R. T. McCarty (v)	33.75L	1-10"				86		43	33		162	90	
T. and E. Schmierer	33.8R	1-4"	5	1	4	12	12	11	6	5	w 56	15	
Pritam Singh Dhaliwal	34.05R	1-4"		3	8	5	4	2			22	14	
August Knoll	34.1R	1-4"		2	13	12	19	9	6	2	63	x 53	
N. O. and O. O. Knoll	34.3R	1-4"		14		5	5	3	3		30	19	
--COUNTY ROAD BRIDGE--	34.35												
J. B. Ward	34.5R	1-4"		12	2	2		7	3		26	13	
H. C. Russell	34.55L	1-10"	5	52	67	107	102	104	108	36	y 581	77	
Kenneth H. Beckman	34.6R	1-5"				3	8	8	3		22	15	
H. C. Russell	34.75L	1-12"			23	28	56	62	14		183	130	
E. R. Thomas	35.15R	1-6"			23	85	95	107	60	57	w 427	t 190	
E. M. Locke	35.2L	1-8"	1	6	12	39	49	28	23	12	170	78	
William Weber (z)	35.4L	1-8"			13	20	40	34	8		115	130	
Boyce Van Patten (aa)	35.5R	1-8"						38	22		60	160	
G. L. Allen	35.7L	1-10"			1	25	18	27	17	1	89	66	
John S. Costes	35.9L	1-7"				74		31	18		123	65	
W. S. Montgomery	36.0L	ab1-6"				62	82	45	26		215	185	
E. R. Thomas	36.2R	1-10"				PLANT REMOVED							
O. Parker	36.45L	1-12"				15	74	31	54		174	136	
W. L. Moffat	36.8R	1-8"				19	26	22	5		72	53	
J. R. Wiederrich	37.15L	1-10"				3	62				65	41	
W. L. Moffat	37.45R	1-8"	4	9		26	43	10			92	80	
W. L. Moffat	37.65L	1-10"				22	55	50	35		162	93	
Costa Estate	37.7R	1-12"				24	19	8			51	30	
C. and F. Sanguinetti	38.0L	2-6"		26	22	35	27	38	10		158	68	
C. and F. Sanguinetti	38.1L	ac1-8"			46	56	40	16	55		213	69	
P. L. and V. A. Stabel	38.3L	1-10"				NO DIVERSION							
Gertrude W. Chrisman	38.5L	1-12"		26	25	30	49	58	5		193	80	
Clements Estate	39.0L	1-12"		230	153	432	448	433	275	202	ad 2173	317	
McGee Ranch	39.25L	1-5"			6	6	5	5	5		w 27	3	
R. S. Featherston	39.3R	1-14"				PLANT ABANDONED							
--HIGHWAY 88 BRIDGE--	39.3												
--GAGING STATION - MOKELUMNE RIVER NEAR CLEMENTS--	39.35												
MOKELUMNE RIVER Totals			4066	12383	16599	25348	28987	25401	16417	9292	138493	22112	1022
Average cubic feet per second			66	208	270	426	471	413	276	151	285		
Monthly use in per cent of seasonal			2.9	9.0	12.0	18.3	20.9	18.3	11.9	6.7			

* Mile and Bank above New Hope Bridge.
** 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 the 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.
a Additional acre-feet diverted: November 5.
b This acreage also received an undetermined amount of water from Dry Creek.
c Additional acre-feet diverted: November 38.
d Installed prior to 1956. Not previously listed.
e This acreage also received an undetermined amount of well water and water from controlled drainage.
f Additional acre-feet diverted: November 4.
g Additional acre-feet diverted: November 3420.
h This acreage also received an undetermined amount of water from Beaver Slough
i Two temporary units replaced the 6" unit in 1956.
j Additional acre-feet diverted: November 3.
k Temporary installation for 1955.
m Acre-feet diverted: November 1.
n Plant moved from Mile 26.5L in 1956.
p Replaces a 1½" unit.
q This acreage also received an undetermined amount of water from controlled drainage.
r Additional acre-feet diverted: November 9.
s Additional acre-feet diverted: November 2.
t This acreage also received an undetermined amount of well water.
u Includes 103 acres which were double cropped.
v Previously listed as John McCarthy.
w Additional acre-feet diverted: November 1.
x Includes 25 acres Graffigna lands.
y Additional acre-feet diverted: November 21.
z Formerly listed as George Aberle.
aa Formerly listed as E. R. Thomas.
ab Replaces a 12" unit.
ac Replaces a 6" unit.
ad Additional acre-feet diverted: November 125.

TABLE 213

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER*
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
Inman Realty Company	1.8L	1-12"		1		14	16	13	10		54	60	
Inman Realty Company	1.9L	1-6"				3	10	7	7	3	30	6	
E. O. Larson	2.0L					PLANT REMOVED							
E. A. and E. R. Anderson	2.2L	1-4"	1		1	1	3	2	2		10	5	
Weiershauser, Ghiorzo, and Piccardo	2-5R	1-12"	5	19	19	65	88	66	37		299	74	
John Santa Maria	2.9L	1-4"			1	1	5	3	2	1	a 13	11	
Ralph Panella	2.9R	1-12"			14	8	17	16	7		62	15	
--PACIFIC AVENUE BRIDGE--	3.7												
Charles M. Weber	4.4R	b 2-6"			12	44	10	45	32		143	60	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	5.3												
--STOCKTON DIVERTING CANAL--	5.4L												
Roy Moresco	5.7L	1-14"			15	22	42	17	22		118	c 71	
Claude Moresco	6.0L	1-5"			12	2	14	9	3		40	c 30	
A. Toso (d)	6.2L	1-4"			5	4	27	18	4		58	c 16	
--U. S. 50 AND 99 HIGHWAY BRIDGE--	6.8												
--CENTRAL CALIFORNIA TRACTION COMPANY RAILROAD BRIDGE--	7.9												
--GAGING STATION - CALAVERAS RIVER NEAR STOCKTON--	7.9												
A. V. Lagorio	8.5L	1-6"			16	18	14	14			62	c 23	
--SOLARI ROAD BRIDGE--	8.6												
E. Leonardini	9.1R	1-4"			4	13	18	20	9		64	c 26	
Uyeda Brothers	9.9L	1-6"			5	30	46	25	17		123	c 65	
Rugani Brothers	9.9R	1-6"			7	14	23	12	4		60	c 54	
N. and R. Sanguinetti (e)	10.2R	1-8"			11	16	17	20	23		87	25	
--ALPINE ROAD BRIDGE--	10.6												
John B. Garibaldi	11.0L	1-5"			3	24	30	11			68	c 45	
John Arata	11.2L	1-5"			5	14	8	8			35	c 11	
Irene Saccone	11.4L	1-4"			15	18	19	23	2		77	c 40	
Frank Solari	11.4R	1-6"			18	33	76	73	40		240	c 105	
--PEZZI DAM--	11.8												
Julia Pezzi and Sons	11.8R	Gravity			13	89	59	114	54		329	c 63	
Julia Pezzi and Sons	11.82L	Gravity			8	29	7	29	7		80	c,f 30	
Julia Pezzi and Sons	11.85L	Gravity			18	19	26	33	7		103	f	
A. Navone	11.85R	Gravity				6	1	2			9	c 3	
Julia Pezzi and Sons	11.95L	Gravity			7	20	9	22	2		60	c,g 30	
A. Navone	11.95R	Gravity				3	5	2			10	c 5	
Julia Pezzi and Sons	12.0L	Gravity			7		6	22			35	g	
Julia Pezzi and Sons	12.05L	Gravity			6	13	20	32	13		84	g	
L. Freggiaro and Son	12.05R	Gravity				PLANT REMOVED							
Julia Pezzi and Sons	12.1L	Gravity				12	12	7	2		33	c,h 22	
Julia Pezzi and Sons	12.15L	Gravity			2	9	23	13	6		53	h	
--MURPHY DAM--	12.3												
S. Sciutti	12.3L	Gravity			3	5	9	8	11		36	c 20	
L. Freggiaro and Son	12.3R	Gravity			2	5	10				17	c 20	
Tony Pastore	12.35L	Gravity			2	2	3				7	c,i 20	
G. Freggiaro and Son	12.39R	Gravity				4		6			10	c 4	
G. Freggiaro and Son	12.40R	Gravity				PLANT REMOVED							
G. Freggiaro and Son	12.41R	Gravity				3	8	1			12	c 15	
G. Bava and Son	12.42R	Gravity			49	109	110	109	55		432	j 105	
Vic Freggiaro	12.43L	Gravity				NO DIVERSION							
Vic Freggiaro	12.44R	Gravity				4					4	k	
Vic Freggiaro	12.5R	Gravity			10	10	18	16	6		60	k,m 22	
Tony Pastore	12.5L	Gravity				4	3	4			11	i	
Tony Pastore	12.6L	Gravity			2	3	2	3			10	i	
Vic Freggiaro	12.6R	Gravity				14	8	8	8		38	n 12	

TABLE 213

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER* (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
--STATE HIGHWAY 88 BRIDGE--	12.7												
Tony Pastore	12.8L	Gravity				NO DIVERSION							
Percy Pope	12.9R	Gravity				NO DIVERSION							
Ed O. Brandstad	13.6R	1-6"			6	30	30	23	10		99	c 60	
William Thrush Estate (p)	13.9L	1-6"				75	28	60	15		178	c 140	
N. Tassano	14.0R	q 1-8"				19	15	29	5		68	c 30	
Henry Foppiano	14.1L	1-5"				8	26	14	8		56	c 72	
J. Schiaffini	14.4R	1-4"			6	13	16	15	8		58	c 20	
Grattone and Bava	14.5R	1-12"			32	188	206	133	72		631	r 191	
L. and R. DeVincenzi	14.8R	1-6"			15	61	74	87	31		268	c 125	
Dave V. Sanguinetti	15.1L	1-5"			7	36	55	29	20		147	c 55	
A. Girardi	15.4R	1-12"			10	74	80	49	16		229	c,s 160	
J. H. Tone	15.7L	1-10"			3	48	47	41	41		180	c 103	
--JACK TONE ROAD BRIDGE--	15.8												
John Plotz	16.0R	1-5"				32	20	26	9		87	t 38	
L. A. Cademartori	16.2L	1-5"			25	59		4	12		100	c 62	
Joe Phillips	16.5L	1-6"				NO DIVERSION							
G. Paoletti	16.6L	1-5"				18	15	11	3		47	u 33	
Reno Paoletti	16.7L	1-4"				9	7	2	2		20	c 18	
Lawrence Zolezzi	16.8L	1-6"			4	40	49	34	13		140	64	
John Boggiano	17.3L	v 1-10"					43	29	4		76	c 75	
--TULLY ROAD BRIDGE--	17.8												
Steve Solari	18.4L	1-6"				125	105	85			315	c 331	
Joe Landoni	19.3R	1-5"			3	21	25	12	7		68	c 38	
E. F. Messick	19.8R	1-5"			3	3	4	4			14	c 4	
B. E. Stagnaro	19.8L	1-8"			22	31	36	28	9		126	c 52	
A. Delucchi (w)	19.9L	1-4"			3	5	8	8	3		27	c 15	
L. Vaccarezza	20.1L	1-5"			4	16	21	16	9		66	x 30	
Bethel Guernsey	20.3L	1-10"			4	26	36	25	20		111	y 57	
G. Pacini	20.4L	1-3"				1	3	5	1		10	c 10	
Frank G. Rossi	20.6L	1-5"			7	7	8	7			29	c 20	
Guernsey Ranch	20.9R	1-8"				73	75	85	25		258	z 95	
F. and M. Arboco	21.0L	1-4"			11	59	28	31	5		aa 134	c 38	
Frank Giannecchini	21.01L	1-5"			4	4	7	11			26	c,aa 38	
--CLEMENTS ROAD BRIDGE AND DAM--	21.1												
E. W. Marciano and D. Canepa	21.1L	Gravity			14	61	99	61	18		253	ab 190	
Albert Metzler	21.11L	Gravity			15	36	27	27	15		120	ac 59	
Mailand Ferrill	21.3L	ad 1-4"			1	10	13	9	2		35	25	
D. Giordano	21.4L	1-4"						3			3	c 8	
Domenick Figone	21.5L	1-5"				5	12	8			25	c 30	
--NORTH SLOUGH--	21.6R												
--NORTH SLOUGH CONTROL GATES**--	**(0.0)												
F. Harrison	**(1.3L)	1-4"			1	4	7	6	1		19	c 13	
L. Robinson	**(1.3R)	1-3"				3	3	3	2		11	10	
S. Filippone	**(1.8L)	1-4"				10	12	3			25	c 14	
Webster Ranch	**(1.81L)	1-12"			10	42	51	33	25		161	c 179	
Webster Ranch (d)	**(2.4L)	Gravity			21	51	41	31	21		165	70	
W. G. Fisher	**(4.1L)	1-9"			7	70	79	90	48		294	c 75	
--TULLY ROAD BRIDGE--	**(4.2)												
George and Charles Hansen	**(4.3L)	1-4"				PLANT REMOVED							
J. H. Tone	**(6.0R)	1-10"		6	2	37	57	56	19		177	140	
A. Girardi	**(6.1L)	1-16"			24	101	79	64	44		s 312	c 60	
Lyons Brothers	**(6.6R)	1-10"			16	46	59	69	46		236	ae 186	
Lucky Ranch (d)	**(7.3L)	1-6"			3	21	37	18	13		92	c 100	
A. G. Steltzner	**(7.3R)	1-8"				NO DIVERSION							

TABLE 213

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER* (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug	Sept.	Oct.		General	Rice
J. W. Hannah, Jr.	**(7.8L)	1-6" 1-8"				NO DIVERSION							
--STATE HIGHWAY 88 BRIDGE--	**(8.1)												
A. G. Steltznar	**(8.1R)	1-6"				NO DIVERSION							
W. C. Leffler (d)	**(10.3L)	1-4"				17	5	21	6		49	c 30	
W. C. Leffler	**(11.5L)	1-10"			82	245	316	373	273		af 1289		c 34
Webster Ranch	21.7R	1-8"			21	71	86	90	59		327	c 129	
P. C. D. Ranch (ag)	21.9R	1-8"			1	32	40	31	21		125	c 82	
Andrew Cuneo	22.0L	1-12"				120	78	119			317	ab 163	
Nick Genetti	22.1L	1-4"				8		18	6		32	c 19	
Joe De Martini	22.2R	1-8"			8	21	54	39	19		141	c 78	
Carroll and Anderson	22.3L	1-8"				77	63	47	16		203	ac 92	
John Boggiano	22.4R	1-10"			3	56	56	40	22		177	70	
Caeser DeMartini	22.7R	1-12"			18	36	64	40			158	c 142	
Louis Tassano	22.9L	1-8"				27	29	19	7		82	c 75	
Frank DeBenedetti	23.1L	1-7"			12	23	25	32			92	c 38	
Fred Podesta	24.3L	1-12"					39	40			79	ah	
Frad Podesta	24.4L	1-12"	23	14	20	81	218	162	46		564	c,ah 480	
--STATE HIGHWAY 8 BRIDGE--	25.2												
--GAGING STATION - CALAVERAS RIVER AT BELLOTA--	25.25												
--CALAVERAS RIVER - MORMON SLOUGH CONTROL GATES--	25.28												
John Armanino and Sons	25.3R	1-10"		16	14	73	46	56	46		251	109	
D. Creary	25.3L	ai 1-2½"							1	1	2	c 2	
--MORMON SLOUGH--	25.3L												
--GAGING STATION - MORMON SLOUGH AT BELLOTA--	8(0.05)												
--FARMINGTON-BELLOTA COUNTY ROAD BRIDGE--	8(0.2)												
J. G. Watkins	8(0.3R)	1-8"			8	46	8	32	19		113	60	
Angelo Solari	8(0.5L)	1-8"			16	39	46	40	13		154	64	
Fred Casella	8(0.9L)	1-6"			15	57	6	23	6		107	86	
John, Louie, and Mario Boggiano	8(1.4R)	1-12"			66	120	149	73	80		488	aj 302	
Sam Motoike	8(1.5L)	1-8"				21	14	17	8		60	41	
Raymond Motoike	8(1.7L)	1-6"				21	9	12	5		47	35	
E. Marugliano	8(2.0R)	1-7"			4	18	31	18	2		73	42	
C. and F. Sanguinetti	8(2.0L)	1-8"			2	33	55	36	12		138	85	
J. B. Ryburn	8(2.5L)	1-10"			30	73	75	93	46	2	319	ak 126	
--FINE ROAD BRIDGE--	8(2.7)												
Julio Pezzi and Sons (d)	8(3.3L)	1-8"				44	17	31	16		108	33	
Caeser DeMartini	8(3.4R)	1-10"				24	27	17	9		77	c 48	
John Avanesino	8(3.5L)	1-5"				NO DIVERSION							
Louis J. Lagorio	8(3.6R)	1-6"	2		11	20	23	18	15		89	90	
Ray Lagorio	8(3.7R)	1-8"			4	22	15	29	11		81	c 40	
P. W. Leonardini	8(4.1L)	1-7"	2		6	32	42	24	30		136	c 100	
Bertha E. Case	8(4.4L)	1-8"				38	2	32	13		85	60	
Nick Bonomo	8(5.5L)	1-10"			2	37	52	23	13		127	73	
John A. Lagorio	8(5.8L)	1-7"			6	27	18	8	9		68	40	
C. and F. Sanguinetti	8(6.1L)	1-6"			4	29	22	28	10		93	80	
J. Piazza	8(6.2R)	1-6"			6	22	17	16	2		63	33	
John Fatto	8(6.7R)	1-5"				NO DIVERSION							
Dondero Brothers	8(6.9R)	1-8"			1	21	12	21	5		60	c 34	
A. and R. Lagorio and J. Caffeaae and Sons (am)	8(6.9L)	1-8"			36	37	51	22	18		164	r 87	
Prado Brothers	8(7.2R)	1-6"				26	20	6	6		58	c 39	
A. and R. Lagorio	8(7.2L)	1-8"			25	29	30	26	12		122	c 90	
Mapes Brothers	8(7.5R)	1-6"	5		13	41	35	55	36		185	r 96	

TABLE 213

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER* (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
D. Paoletti and Son	8(7.8R)	1-6"			8	16	24	22	6		76	40	
--COPPEROPOLIS ROAD BRIDGE--	8(7.8)												
Smythe, Van Oyke Company (w)	8(8.4L)	1-16"				33	113	96	20		262	c 372	
A. Mignacco	8(10.0L)	1-8"			6	33	41	36	14		130	c 56	
E. M. Walker	8(10.0R)	1-5"			8	11	13	10	5		47	c 27	
M. Lavaggi	8(10.3L)	1-8"			28	26	32	29	19		134	an 49	
Ray Duarte	8(10.8R)	1-7"				7	40	44	40		131	c 110	
Ray Ouarte	8(11.0L)	1-8"				16	15	25	12		68	c 70	
Oick Wilma	8(11.7R)	1-5"				NO DIVERSION							
Frank C. Raffel	8(11.9L)	1-6"			8	41	46	54	27		176	c 111	
L. Gogna (d)	8(12.4R)	1-5"			4	11	9	12			36	c 41	
A. Solari and Sons (d)	8(12.5L)	1-4"			8	24	11	2	1		46	c 36	
Joseph Caffese and Sons	8(12.8R)	1-7"				8	11	16	13		48	c 26	
--END OF MORMON SLOUGH - BEGINNING OF STOCKTON DIVERTING CANAL--	8(13.0)												
Homer D. Riddle	88(13.3R)	1-6"			3	18	73	84	5		183	c 136	
Homer D. Riddle	88(13.7R)	1-6"				5	15	15			35	c 77	
--STATE HIGHWAY 8 BRIOGE--	88(14.9)												
Budiselich and Boggiano Brothers	88(15.7R)	2-12"			97	191	136	160	83		667	161	c 24
--U. S. 50 AND 99 HIGHWAY (FREEWAY) BRIOGE--	88(16.0)												
--GAGING STATION - STOCKTON OIVERTING CANAL AT STOCKTON--	88(16.2)												
Roy Moresco (ap)	88(16.2R)	1-5"				5	6	6			17	c 20	
--U. S. 50 AND 99 HIGHWAY BRIDGE--	88(17.2)												
Albert A. Anderson	25.5L	1-12"			20	72	77	70			239	115	
L. F. Grimsley	25.9L	1-16"				108	80	89			277	aq 211	
Vignolo and Pallovicino	26.3R	1-10"			44	78	134	118	84		458	117	
Field Brothers	26.8L	1-6"			38	29	37	35	15		154	c 109	
McGurk Ranch	26.8R	1-8"	4	6	29	93	82	62	42	12	330	ar 140	
Saverio Nogare	27.2R	1-12"				NO DIVERSION							
Saverio Nogare	27.5L	1-10"				36	13				49	c 107	
E. E. Cady	28.3L	1-6"				37	25	31	12		105	c 76	
R. T. and A. V. Lagorio	28.9L	1-10"				22	18	17			57	50	
Garavano and Maffeo	29.0L	1-6"				34	36	33			103	as 50	
O. R. Shelley	29.2R	1-6"			2	2	12	18	6		40	c,at 78	
O. R. Shelley	29.3L	1-10"			2	73	39	46	9		at 169	77	
M. N. Yocum	29.4L	1-8"			17	33	54	23			127	an 105	
Kenneth G. Watkins	30.1R	1-10"		8	23	85	87	72	11		286	130	
--BELLOTA RIVER ROAD BRIDGE--	30.4												
L. and O. Hoag	30.6R	1-14"				85	59	72	30		246	c 151	
Lynn Barnett	30.7R	1-7"				18		16			34	26	
Lois E. Hunt	31.1R	1-6"				24		21			45	37	
S. M. Gregory	31.3R	1-8"	1			60	22	31	32		au 146	av 105	
S. M. Gregory	31.6R	1-6"			16	31	13	22	4		86	au 60	
Eva Hunt	32.5R	1-5"		6	4	13	11	12	11	6	a 63	15	
Eva Hunt	32.6L	1-6"				24	4	17	14		59	55	
--GAGING STATION - CALAVERAS RIVER AT JENNY LINO--	36.9												
CALAVERAS RIVER													
Totals			43	76	1374	5451	5748	5460	2427	25	20604	10685	58
Average cubic feet per second			1	1	22	92	93	89	41	0	42		
Monthly use in per cent of seasonal			0.2	0.4	6.7	26.4	27.9	26.5	11.8	0.1			

TABLE 213

DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER* (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

* 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, which diverts from Calaveras River at Mile 21.6R. Distance from Calaveras River and bank are shown in ( ).
@ Mormon Slough, which diverts from Calaveras River at Mile 25.3L and rejoins the river through Stockton Diverting Canal. Distance from Calaveras River and bank are shown in ( ).
@@ Stockton Diverting Canal, which diverts from Mormon Slough at Mile 8(13.0) and rejoins the Calaveras River at Mile 5.4L. Distance from Calaveras River and bank are shown in ( ).
a Additional acre-feet diverted: November 1.
b Two 6" units were removed in 1956.
c This acreage also received an undetermined amount of well water.
d New installation in 1956.
e Previously listed as E. and R. Sanguinetti.
f Combined acreage for Miles 11.82L and 11.85L.
g Combined acreage for Miles 11.95L, 12.0L, and 12.05L.
h Combined acreage for Miles 12.1L and 12.15L.
i Combined acreage for Miles 12.35L, 12.5L, and 12.6L.
j Includes 36 acres which also received an undetermined amount of well water.
k Combined acreage for Miles 12.45R and 12.5R.
m Includes 12 acres which also received an undetermined amount of well water.
n Includes 19 acres which also received an undetermined amount of well water.
p Formerly listed as William Thrush.
q Replaces a 4" unit.
r Includes 26 acres which also received an undetermined amount of well water.
s The acreage listed for Mile 15.4R also received an undetermined amount of water from Mile 26.1R @@(6.1L).
t Includes 19 acres which also received an undetermined amount of well water.
u Includes 4 acres which also received an undetermined amount of well water.
v Replaces a 6" unit.
w Installed prior to 1956. Not previously listed.
x Includes 11 acres which also received an undetermined amount of well water.
y Includes 34 acres which also received an undetermined amount of well water.
z Includes 35 acres which also received an undetermined amount of well water.
aa The acreage listed for Mile 21.01L also received 34 acre-feet of water from Mile 21.0L.
ab Includes 20 acres which also received an undetermined amount of well water.
ac Includes 15 acres which also received an undetermined amount of well water.
ad Replaces a 5" unit.
ae Includes 171 acres which also received an undetermined amount of well water.
af An undetermined amount of this water was spilled for underground storage.
ag Formerly listed as Ralph Houston.
ah Combined acreage for Miles 24.3L and 24.4L
ai Replaces a 3" unit.
aj Includes 31 acres which also received an undetermined amount of well water.
ak Includes 86 acres which also received an undetermined amount of well water.
am Formerly listed as A. and R. Lagorio.
an Includes 30 acres which also received an undetermined amount of well water.
ap Reinstallation in 1956 of a plant previously removed.
aq Includes 8 acres which also received an undetermined amount of well water.
ar Includes 50 acres which also received an undetermined amount of well water.
as Includes 5 acres which also received an undetermined amount of well water.
at The acreage listed for Mile 29.2R also received an undetermined amount of water from Mile 29.3L.
au The acreage listed for Mile 31.6R also received an undetermined amount of water from Mile 31.3R.
av Includes 40 acres of Gill lands which also received an undetermined amount of well water.

TABLE 214

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Old San Joaquin River, Tom Paine Slough, and French Camp Slough)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
OLD SAN JOAQUIN RIVER	*												
--CONTRA COSTA CANAL--	30.5L												
John A. Bettencourt	a 30.5L	1-18"		91	81	142	157	165	136	58	830	b 259	
Augustus Barija	c 36.5L	2-6"	29	16	42	48	55	48	38	16	d 292	82	
East Contra Costa Irrigation District	c 36.5L	1-18" 3-24" 2-30"	483	1471	4414	7547	7727	6067	2526	470	30705	e 15713	
--STATE HIGHWAY 4 BRIDGE--	38.8												
Byron-Bethany Irrigation District	f 40.9L	1-20" 1-24" 1-30"	988	3432	4467	6186	6572	6271	4059	1949	g 33924	h 10436	
--CLIFTON COURT FERRY--	43.8												
--DELTA-MENDOTA CANAL--	44.6L												
M. F. Furtado	i 44.6L	1-14"	107	182	125	271	280	261	121	41	1388	344	
Emil Hoefer	44.7L	1-5"				NO DIVERSION							
William F. Ralph	45.3L	1-12"	30	122	153	209	193	207	111	78	1103	307	
C. [illegible] Bankhead and Son (k)	m 47.2L	1-16"	82	179	204	305	320	307	130	2	n 1529	p 385	
Luci J. Costa	m 47.2L	1-14"	48	64	152	152	189	253	198	78	q 1134	p 250	
Johnnie I. Costa	i 47.65L	1-8"	24	26	41	52	65	49	42	23	r 322	80	
West Side Irrigation District	i 47.65L	e 1-10" 7-15" s 1-18"	3078	4136	4595	6147	6757	6075	3365	786	34939	t 10080	
Vance Brown	48.4L	1-12"	43	6[illegible]	55	104	108	111	53	43	577	155	
Naglee Burke Irrigation District	4[illegible].5L	1-4"		1	2	2	2	2	2		11	6	
Naglee Burke Irrigation District	[illegible].4L	1-16" 1-1[illegible]"	784	771	1324	1845	1850	1972	1147	397	10093	u 2619	
Fremont Irrigation Association	[illegible].7L	1-16"	144	23	203	2[illegible]7	251	203	197	27	1255	v 702	
Joe [illegible]. Freitas	[illegible].1L	1-[illegible]"		11	16		16	15	15		68	36	
Attilio Castelrini	[illegible].1L	1-1"		5	1	15	33		17		80	35	
Excelsior Ranch [illegible]	[illegible].4L	1-1"		1[illegible]	[illegible]2	2[illegible]	44	23	19		152	113	
A. I. Galli	[illegible].1L	1-[illegible]"		14	16	[illegible]1	3	34	35	14	197	57	

TABLE 214

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Old San Joaquin River, Tom Paine Slough, and French Camp Slough)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
OLD SAN JOAQUIN RIVER (contd.)	*												
--RECORDING GAGE--	53.0												
--MOUTH OF TOM PAINE SLOUGH--	54.3L												
OLD SAN JOAQUIN RIVER Totals			5840	10620	15922	23341	24622	22063	12206	3982	118596	41659	0
Average cubic feet per second			95	178	259	392	400	359	205	65	244		
TOM PAINE SLOUGH	**												
Independent Mutual Water Corporation and Company	0.7S	2-18"	140	197	239	402	459	710	257	19	w 2423	1113	
Independent Mutual Water Corporation and Company	1.5S	1-18"	30		39	87	48	89	84	56	433	192	
--HOLLY SUGAR CORPORATION DREDGER CUT--	82.1S												
George J. Lake	8(0.5W)	1-10"										x 168	
Holly Sugar Corporation	8(1.2W)	1-12" 1-14"	116	152	78	259	202	295	401	411	x,y 1914	z 664	
--RECORDING GAGE--	2.2S												
Pescadero Reclamation District 2058 (#1)	2.9S	1-12"	66	113	86	228	250	215	119	34	1111	240	
Frank Bastian (aa)	4.3S	1-5"		20	19	27	28	7			101	12	
Pescadero Reclamation District 2058 (#3)	6.3S	1-12" 1-20" 1-24"	1179	849	1542	2148	2158	2304	1812	808	12800	ab 2520	
Pescadero Reclamation District 2058 (#5)	8.3S	1-12"	109	107	98	314	245	254	128	33	ac 1288	308	
Pescadero Reclamation District 2058 (#5A)	9.0S	1-12"	46	125	67	206	142	174	80	54	894	212	
TOM PAINE SLOUGH Totals			1686	1563	2168	3671	3532	4048	2881	1415	20964	5429	0
Average cubic feet per second			27	26	35	62	57	66	48	23	43		
FRENCH CAMP SLOUGH	***												
Carolyn Weston	1.05L	1-12"				55	74	86	9		224	110	
Carolyn Weston	1.4L	1-7"				1	24	1	1		27	60	
Carolyn Weston	1.5L	1-6"					11	1	7		19	40	
--FRENCH CAMP TURNPIKE--	2.0												
Frank West	2.2L	1-10"	93	79	201	214	210	164	160	105	ad 1226	221	
Manuel E. Granados	2.3R	1-3"			1	1					2	4	
Frank West	3.0L	1-10"	38	13	32	25	46	43	23	10	230	30	
Tom Gomes	3.3L	1-5"				NO DIVERSION							
Tom Gomes	3.4L	1-4"				NO DIVERSION							
--U. S. 50 HIGHWAY--	3.4S												
--SOUTHERN PACIFIC RAILROAD BRIDGE--	3.6												
Milton C. Boege	3.8L	1-8"					21	10	15	7	53	23	
Robert L. Bordenave	3.8R	1-12"			28	9	50	27	39		153	50	
--WESTERN PACIFIC RAILROAD BRIDGE--	4.1												
Clark Anderson	4.2R	1-14"			120	94	99	64	201		578	ae 225	ae 205
--GAGING STATION - FRENCH CAMP SLOUGH NEAR FRENCH CAMP--	5.4												
FRENCH CAMP SLOUGH Totals			131	92	382	399	535	396	455	122	2512	763	205
Average cubic feet per second			2	2	6	7	9	6	8	2	5		

TABLE 214

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Old San Joaquin River, Tom Paine Slough, and French Camp Slough)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

* 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.
θ Holly Sugar Corporation dredger cut joins Tom Paine Slough at Mile 2.1S. Distance along dredger cut and bank shown in ( ).
a Rock Slough joins Old San Joaquin River at Mile 30.5L. Pumping plant is located on channel which joins Rock Slough.
b Includes 27 acres of C. P. Mercer lands.
c Indian Slough joins Old San Joaquin River at Mile 36.5L. Pumping plant is located on intake canal which joins Indian Slough.
d Additional acre-feet diverted: November 2.
e This acreage also received 2886 acre-feet of well water.
f Italian Slough joins Old San Joaquin River at Mile 40.9L. Pumping plant is located on intake canal which joins Italian Slough.
g Additional acre-feet diverted: November 364.
h Of this acreage, 135 was double cropped.
i Plant is located on intake canal which joins Old San Joaquin River at this mile.
j Additional acre-feet diverted: December 3.
k Formerly listed as George Covert.
m Plant is located on Mountain House Creek which joins Old San Joaquin River at this mile.
n Additional acre-feet diverted: November 12.
p This acreage also received an undetermined amount of water from Mountain House Creek.
q Additional acre-feet diverted: November 25.
r Additional acre-feet diverted: November 9.
s The 10" and 18" units were installed in 1956.
t Of this acreage, 100 was double cropped.
u Includes 20 acres of Tracy Clover District land.
v Includes 8 acres of Tracy Clover District land.
w Additional acre-feet diverted: November 6.
x The acreage listed for Mile θ(0.5W) received 44 acre-feet of water from Mile θ(1.2W).
y Additional acre-feet diverted: November 420 and December 203. Includes an undetermined amount of water used for industrial purposes.
z Of this acreage, 49 was double cropped.
aa Installed prior to 1956. Not previously listed.
ab Of this acreage, 80 was double cropped.
ac Additional acre-feet diverted: November 39.
ad Additional acre-feet diverted: November 11 and February 1.
ae This acreage also received 2846 acre-feet of controlled drainage water.

TABLE 215

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(San Joaquin River - Stockton to Vernalis)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
SAN JOAQUIN RIVER** (Stockton to Vernalis)													
--STATE HIGHWAY 4 BRIDGE--	45.3												
--FRENCH CAMP SLOUGH--	45.9R												
Carolyn Weston	46.1R	1-4"				NO DIVERSION							
Carolyn Weston	46.2R	1-6"						16			a 16	50	
Carolyn Weston	46.3R	1-12"		1		13	17	27	7		65	40	
Ivy Ranney	46.65R	1-10"			72	37	37	68	60		274	80	
Frank West	46.85R	1-10"	13	21	35	75	50	86	27	2	309	104	
F. Asano	47.2R	1-6"	4	9	7	14	19	27	7	7	a 94	b 37	
Wolfinger Brothers	47.3R	1-10"			30	17	32	15	24		118	50	
C. C. Long	47.55R	1-10"		33	49	67	55	45	87		336	103	
Waldo C. Haack	48.0R	1-14"		57	114	61	170	135	115		652	c 370	
Chow L. Young	48.3R	d 1-6"	1	2	5	9	10	8	6	4	a 45	e 25	
Joe Calcagno	48.5R	1-6"		25	4	27	17	38	34	1	146	f 70	
C. J. Pregno	48.55R	1-6"		11	12	11	18	9	11		72	30	
John Calcagno	48.66R	1-12"	2	26	68	89	113	45	71	14	448	g 160	
Alfred [illegible]dgers (h)	49.0R	1-12"		10	38	57	74	71	4[illegible]	7	i 36[illegible]	75	
[illegible]ay [illegible]uller and F. Terry (j)	49.3R	1-14"		20	2		64	72			158	k 230	
Ray Muller and F. Terry (j)	49.5R	1-12"		20	6	60	51	36			173	k	
A. A. [illegible]odgers	50.1R	1-10"	21	7	16	38	51	49	32	21	m 235	[illegible]	
--B[illegible]--	50.2												
A. Hirata	5[illegible].4R	1-1[illegible]"	[illegible]	20	37	55	48	36	43	1	[illegible]	[illegible]	
K. [illegible] and F. Watanabe	5[illegible].5R	1-6"			31	45	3[illegible]	33	31		17[illegible]	[illegible]	
[illegible]. Toscano	50.8R	1-6"	5		11	21	18	2[illegible]	1[illegible]	[illegible]	p [illegible]	40	
[illegible]astorin[illegible] [illegible]rothers	5[illegible]	1-12"	26	15	11	53	76	84	33	21	q 319	100	
Past[illegible]rin[illegible] [illegible]r[illegible]thers	[illegible]	1-6" 1-1[illegible]"				NO DIVERSION							
Felipe [illegible]tolan	51.2[illegible]	1-12"		1[illegible]		24	[illegible]1	67	6[illegible]		[illegible]3	[illegible]	
J. [illegible]ur[illegible]hell Estate [illegible]	51.6	1-1[illegible]"		14	27	[illegible]2	4[illegible]	4[illegible]	5[illegible]		[illegible]68	[illegible]	
[illegible]. [illegible]antini	[illegible]2.4	1-5"			[illegible]	3	5	[illegible]	1		10	1[illegible]	
[illegible]. F. Villa (s)	[illegible].65R	1-1[illegible]"			74	4[illegible]	[illegible]	43	45		[illegible]	[illegible]5	
[illegible]. Wilmer	[illegible]	1-16"	25	[illegible]1	147	[illegible]1	2[illegible]3	16[illegible]	14[illegible]	3	1[illegible]1	41[illegible]	
William Nishimura	[illegible].4	1-8"				NO DIVERSION							
[illegible]. Widmer	[illegible]3.4[illegible]	1-1[illegible]"		13		[illegible]	[illegible]	14	[illegible]		[illegible]5	t 51	
[illegible]ill[illegible] [illegible]renz[illegible]	[illegible]	1-8"		1	[illegible]	37	31	[illegible]	[illegible]	1	a 143	5[illegible]	
[illegible]ke [illegible]ing [illegible]	[illegible].5	1-[illegible]"		1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		1[illegible]	[illegible]	

TABLE 215

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(San Joaquin River - Stockton to Vernalis)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
John Caparra	53.6R	1-4"	2	5	4	5	10	6	6	3	45	v 15	
Fred Brandenburg (w)	53.7R	1-14"	22	53	100	97	241	271	141	37	q 962	x 275	
I. N. Robinson, Jr.	53.8R	1-14"	76	107	185	272	222	268	311	127	y 1568	383	
H. W. Hansen, H. C. Hansen, and William Giger	54.9R	1-10"		96	109	97	132	150	65	111	z 760	157	
--JUNCTION WITH MIDDLE RIVER--	56.2L												
Oakwood Stock Farm	57.0R	1-14"	59	63	36	171	168	109	81	55	742	200	
James Tobin	57.15R	1-7"				NO DIVERSION							
Frank Dewar, et al.	57.38R	1-4"			6	21	13	23	8	12	85	aa 26	
Andrew B. Calori	57.45R	1-6"				3	9	6			18	30	
G. Cardella and Company	57.5R	1-4"	8	4	2	4	6	3	1	1	29	15	
A. Queirolo	58.6R	ab 1-4"		5		3	10	11	2		31	14	
R. Mauro	58.7R	1-4"		1	1		1	1	2	1	7	3	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	58.8												
--U. S. 50 HIGHWAY - MOSSDALE BRIDGE RECORDING GAGE--	58.9												
Mertle Abersold	59.25R	1-6"			19	20	45	30	18	10	ac 142	55	
M. H. Madruga	59.3R	1-15"	20	52	110	206	220	176	207	1	992	254	
Eugene J. Rossi, et al.	59.5L	1-14"			48	67	61	137	51		364	ad 170	
--WESTERN PACIFIC RAILROAD BRIDGE--	59.5												
M. H. Madruga	ae 60.1R	1-6"		11	9	12	18	26	13		89	30	
C. W. Baird (af)	ae 60.1R	1-16"				120	217			43	380	197	
James and Leslie Little	60.4L	ag 1-3" 1-4"					3	1			4	7	
A. F. Windeler	60.5L	1-16"		6	41	46	112	55	47		ah 307	ai 135	
E. Picchi and Son	aj 60.8R	1-8"		35			52	38			125	68	
E. Picchi and Son	61.4R	1-12"		62	3	42	116	115			338	214	
A. F. Windeler	61.5L	1-8"				PLANT REMOVED							
Jack Williams	62.0R	1-6"				NO DIVERSION							
Bernice Von Sosten	62.0L	1-12"		2	129	142	155	140	134		p 702	230	
--PARADISE DAM (HEAD OF PARADISE CUT)--	62.2L												
Paradise Mutual Water Company	ak 62.2L	1-14" 1-20"	219	97	295	353	368	348	268	11	1959	644	
Dethlefsen Brothers	63.0L	2-20"					646	34			am 682	1190	
State of California	63.3L	1-14"	109	117	85	185	162	291	130	52	an 1131	ap 484	
H. H. Grimes	63.6R	1-12"		25	31	96	88	82			322	180	
Dethlefsen Brothers	64.6L	1-10"					12	41	12		65	45	
Alexander Hildebrand	aq 66.0R	1-6"				8	1	7	2		18	7	
Johnnie J. Silva (ar)	66.7L	1-8"		64	68	137	139	143	99	46	796	as 215	
Banta Carbona Irrigation District	at 67.5L	2-10" 2-16" 2-20" 3-24" 1-36"	4059	7699	5014	6962	10222	7623	3959	1470	au 49008	av 17082	
William Piccinini (aw)	68.2R	1-10"				17	7	22	55	16	117	41	
Glen M. West	70.0L	1-6"			14	82	75	65	51	29	ax 336	143	
Richard Burnley	70.5R	1-10"				PLANT REMOVED							
San Joaquin River Water Users Co.	71.0R	2-16"	2	157	550	581	1011	1240	547	22	ay 4110	1266	
E. Filippini	71.0R	1-6" az 1-4" az 1-10"					10	2			12	9	
Tony M. Cardoza (u)	ba 71.75R	1-4"						5	5		10	16	
Tony M. Cardoza	72.1R	1-10"					19	32	18		69	50	
N. J. Mortensen and Barker	73.2R	1-8" 1-12"		87	24	83	183	140		2	523	297	
San Joaquin River Club	74.7L	1-6"	30	27		58	98	63	92	105	bb 476	bc 50	
E. A. Tassi	75.6R	1-16"		80	20	72	146	77	70	33	bd 498	be 340	
SAN JOAQUIN RIVER (Stockton to Vernalis) Totals			4792	9271	7758	13115	16377	13163	7387	2382	74245	27327	J
Average cubic feet per second			78	156	126	220	266	214	124	38	153		

TABLE 215

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(San Joaquin River - Stockton to Vernalis)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

* Acreage along San Joaquin River from its mouth 41 miles below Antioch.
** Left bank diversions into the Doreing Ranch, Stewart Tract, and Roberts Island (below Mile 58.0) are not included since that area is considered to be within the Delta Lowlands. Tidal effect ceases at about Mile 66.0.

a Additional acre-feet diverted: November 1.
b Of this acreage, 5 was double cropped.
c This acreage also received 24 acre-feet of water from controlled drainage.
d The 6" unit replaced a 4½" unit in June 1956.
e Of this acreage, 2 was double cropped.
f Of this acreage, 60 was double cropped.
g Includes 30 acres which also received an undetermined amount of well water.
h Formerly listed as Minna M. and Ema J. C. Ott.
i Additional acre-feet diverted: November 17.
j Formerly listed as Herbert Spangenberg and S. B. Chapman.
k Combined acreage for Miles 49.3R and 49.5R.
m Additional acre-feet diverted: November 16.
n Includes 52 acres of Vieira lands.
p Additional acre-feet diverted: November 2.
q Additional acre-feet diverted: November 1.
r Formerly listed as J. Burchell.
s Formerly listed as D. J. Macedo.
t Includes 30 acres of Nishimura lands.
u Installed prior to 1956. Not previously listed.
v Of this acreage, 3 was double cropped.
w Formerly listed as John Barkett.
x Of this acreage, 18 was double cropped.
y Additional acre-feet diverted: November 77.
z Additional acre-feet diverted: November 30.
aa Includes 13 acres of Thompson lands.
ab Replaces a 3" unit.
ac Additional acre-feet diverted: November 3.
ad Of this acreage, 45 was double cropped.
ae Plant is located on Walthall Slough which joins the San Joaquin River at this mile.
af New installation in 1956.
ag The 3" unit was a temporary installation in 1956.
ah Additional acre-feet diverted: November 24.
ai Of this acreage, 30 was double cropped.
aj Plant moved from Mile 60.5R in June 1956.
ak Plant is located on Paradise Cut which joins the San Joaquin River at this mile.
am Additional acre-feet diverted: November 226, December 626.
an Additional acre-feet diverted: December 7, February 1.
ap Of this acreage, 26 was double cropped.
aq Plant is located on Old Channel which joins the San Joaquin River at this mile.
ar Formerly listed as Manuel Brazil.
as Includes 53 acres of Banta Irrigated Farms land.
at Plant is located on intake canal which joins the San Joaquin River at this mile.
au Additional acre-feet diverted: November 333.
av Includes 2554 acres of Banta Irrigated Farms, Kasson District, and outside contracts. Of this acreage, 1214 was double cropped. This acreage also received 1600 acre-feet of well water.
aw This plant formerly located at Mile 70.5R and listed as Richard Burnley.
ax Additional acre-feet diverted: November 35, December 3.
ay Additional acre-feet diverted: November 18.
az The 4" and the 10" units were temporary installations during 1956.
ba Portable unit which diverted between Miles 71.65R and 71.75R in 1956.
bb Additional acre-feet diverted: November 81.
bc Recreational lakes. Also received an undetermined amount of controlled drainage water.
bd Additional acre-feet diverted: November 41.
be Of this acreage, 225 also received an undetermined amount of controlled drainage water.

TABLE 216

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Calaveras River, Mokelumne River, Cosumnes River, Sacramento River below Sacramento, and Yolo Bypass-West Cut)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
CALAVERAS RIVER(a)													
Totals			6	20	79	164	232	206	126	4	827	342	0
Average cubic feet per second			0		1	3	4	3	2	0	2		
[illegible] RIVER(b)													
Totals			34	247	755	1332	1768	1376	[illegible]	472	[illegible]	2170	-
Average cubic feet per second			1	4	12	22	29	22	11	4	13		
CO[illegible] RIVER(c)													
Totals				7	50[illegible]	540	644	545	261	15	2564	1414	124
Average cubic feet per second						9	11	9	4	0	5		
SACRAMENTO [illegible] DRAINAGE DISTRICT	*												
-- [illegible] VISTA B[illegible] --	14.[illegible]												
John Lira	13.[illegible]	1-6"		[illegible]		2	4	[illegible]	1		d 1	2	
C. A. Beach	4[illegible].2L	1-12"			1	68	[illegible]	[illegible]	46		281	116	
[illegible] and B. Correa	4[illegible].5L	1-10"				132	[illegible]	53			226	143	
Hank and F[illegible]ythe	49.[illegible]L	1-6"				NO DIVERSION							
A. J. [illegible]weeney	45.[illegible]L	1-10"				46	51	28	17		142	60	
--FREE[illegible]T [illegible] --	4[illegible].												
Freeport [illegible]evelopment [illegible]ompany	47.[illegible]L	1-[illegible]"	[illegible]	[illegible]	1[illegible]	181	121	34			464	e 45	
[illegible]. [illegible]. [illegible]e	46.[illegible]	1-1[illegible]"	12	18	17	52	31	5[illegible]	6		192	9[illegible]	
[illegible]. [illegible]. Klotz	47.3L	1-8"	14	18	17	41	[illegible]	41	3[illegible]	11	[illegible]06	[illegible]	
[illegible]. A. [illegible]r[illegible]k[illegible]	47.6L	1-[illegible]"				31	27	18			76	5[illegible]	
[illegible]orge [illegible]e[illegible]	[illegible].[illegible]	1-[illegible]"					[illegible]4				[illegible]4	4[illegible]	
[illegible]. A. [illegible]r[illegible]n	5[illegible].[illegible]	[illegible]-[illegible]"				7			1		[illegible]	1[illegible]	
--"[illegible] [illegible]--[illegible]	[illegible].												
[illegible]			[illegible]	4[illegible]	152	[illegible]4[illegible]	45[illegible]	[illegible]1	[illegible]1	11	162[illegible]	[illegible]14	[illegible]
[illegible]tal													
[illegible]verage [illegible] feet [illegible]er [illegible]econd				1	[illegible]		[illegible]	[illegible]	1	[illegible]	3		

TABLE 216

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Calaveras River, Mokelumne River, Cosummes River, Sacramento River below Sacramento, and Yolo Bypass-West Cut)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
YOLO BYPASS (WEST CUT)	**												
H. L. Sorensen	4.2R (1.9)	1-14"		20	113	57	161	112	127	101	691	160	
Mounds Farms	4.2R (2.0)	2-12"		81	136	195	300	281	258	429	f 1680	500	
H. L. Sorensen	4.2R (2.0)	1-16"			199	209	176	161	153	163	g 1061	320	
Charles L. Maben	5.7R (0.9)	1-18"							35	556	h 591	240	
R. S. W. Ranch	5.7R (1.5)	1-16"			244	378	446	437	375	220	i 2100	400	
Fridolf Anderson	6.75R (0.6)	1-16"				60	165	257			482	420	
James Iriart	7.85R	1-16"				14	213	125	193	61	j 606	260	
Swanston Land Company	7.87R (1.7)	1-16"				115	285	300			700	620	
Vaughn and Burlingham	7.87R (2.1)	1-14"	19	19	44	92	83	158	98	69	582	220	
Vaughn and Burlingham	7.87R (2.5)	1-14"		40	30	28	150	139	96	81	564	311	
Vaughn and Burlingham	7.87R (2.7)	1-14" 1-16"	14	126	218	372	516	616	441	119	2424	730	
Swanston Land Company	8.7R	1-16"						328		185	k 513	190	
J. H. Glide Estate	9.3R	1-14"						1	111	153	m 265	140	
T. S. Glide	10.9R (0.4)	1-20"		77	65	272	333	112	23		882	n 1160	
T. S. Glide	11.0R	1-10"				10	26				36	p	
T. S. Glide	12.4R	1-14"					193				193	400	
T. S. Glide	13.15R	1-20"				17	43				60	p 200	
--SACRAMENTO NORTHERN RAILROAD--	13.2												
T. S. Glide (q)	13.5R	1-6"					59	60			119	45	
T. S. Glide	14.8R	2-16"				NO DIVERSION							
T. S. Glide	17.1R (1.8)	3-20"		201	189	1873	2761	1730	245	226	r 7225	4400	
T. S. Glide	18.6R	1-36"				NO DIVERSION					s		
--U. S. 40 AND 99W CAUSEWAY--	20.1												
YOLO BYPASS (WEST CUT) Totals			33	564	1238	3692	5912	4817	2155	2363	20774	10736	0
Average cubic feet per second			1	9	20	62	96	78	36	38	43		

* Mileage above Chain Island
** Mileage above Prospect Island.
a Below gaging station - Calaveras River near Stockton, Mile 7.9. Individual diversions are shown in Table No. 213
b Below gaging station - Mokelumne River at Woodbridge, Mile 19.2. Individual diversions are shown in Table No. 212
c Below gaging station - Cosumnes River at McConnell, Mile 10.7. Individual diversions are shown in Table No. 211
d Additional acre-feet diverted: November 3.
e This acreage also received an undetermined amount of well water.
f Additional acre-feet diverted: November 51 and December 51.
g Additional acre-feet diverted: November 23 and December 14.
h Additional acre-feet diverted: November 2381 and December 262.
i Additional acre-feet diverted: November 105.
j Additional acre-feet diverted: November 242, and December 51.
k Additional acre-feet diverted: November 23, and December 20.
m Additional acre-feet diverted: November 21.
n This acreage also received an undetermined amount of water from controlled drainage.
p Combined acreage for Milea 11.OR and 13.15R.
q New installation in 1956.
r Additional acre-feet diverted: November 278, and December 167.
s Additional acre-feet diverted: November 116, and December 58.

TABLE 217

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Miscellaneous Delta Uplands)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
MISCELLANEOUS DELTA UPLANDS													
Five Mile Slough													
Sam Hernandes	2/6-17D	1-3"					3	4			7	3	
Guodi Segarina	2/6-17C	1-12"				NO DIVERSION							
Lawrence Jimenez (a)	2/6-8N	1-8"							4	2	6	14	
Disappointment Slough													
H. Moffat Co. and Eldon Land Co.	2/6-6P	1-18"	232	225	312	424	400	393	235		2221	400	
H. Moffat Co. and Eldon Land Co.	2/6-6J	1-14"	157	259	462	515	561	501	234		2689	375	
Telephone Cut													
E. V. Lang (b)	3/5-35A	Gravity	57	66	73	85	107	95	66	57	606	c 237	
E. V. Lang (b)	3/5-36P	Gravity	24	31	33	43	49	41	31	26	276	c 106	

TABLE 217

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Miscellaneous Delta Uplands)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank a	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
Telephone Cut (contd.)													
E. V. Land (b)	3/5-36C	Gravity	10	13	14	18	20	17	13	11	116	c 45	
E. V. Lang	3/5-26R	Gravity	15	20	22	28	32	27	20	17	181	c 70	
White Slough													
J. C. and S. W. Imeson	3/5-26C	1-12"	54	75	76	103	155	144	136	28	d 771	145	
J. C. and S. W. Imeson	3/5-25C	1-16"	85	105	153	239	311	276	236	95	e 1500	330	
Hog Slough													
Robinson Farms	4/5-28B	Gravity		27	24	26	21	40	33	137	f 308	g 182	
Robinson Farms	4/5-28B	Gravity		28	8		16			40	92	g	
Thompson-Folger Company	4/5-28C	1-12" Gravity	94	126	257	368	387	377	296	337	h 2242	546	
Beaver Slough													
C. B. Orvis	4/5-15C	1-15"	84	106	178	205	292	252	208	108	i 1433	190	
C. B. Orvis	4/5-15D	1-18"	58	103	143	254	346	349	264	132	j 1649	410	
Canal Ranch	4/5-16B	1-8"	36	60	47	67	109	105	38	34	496	184	
Canal Ranch	4/5-16D	1-8"		10	1		90	59			160	80	
Burton Slough													
Egbert O. Morse	5/5-28D	k 1-10"				9	11	10			30	20	
Barnes Ranch	5/5-29D	1-4"					12	13			25	41	
Egbert O. Morse	5/5-20K	1-8"				5	43	34			82	87	
Egbert O. Morse	5/5-16N	1-16"			77	86	222	173	86		m 644	85	45
Egbert O. Morse	5/5-15M	1-10" 1-12" 1-14"		29	876	932	1025	885	516		4263		690
East Dredger Cut - Snodgrass Slough													
Alfred Kuhn	6/4-36Q	1-16"		18	19	150	313	288	66	2	856	351	
Alfred Kuhn	6/5-31N	1-14"				NO DIVERSION							
Alfred Kuhn	6/5-31R	1-12"				NO DIVERSION							
Duck Slough Extension													
Isabella Wineman	6/2-26B	1-14"	20	92	151	190	187	171	114	84	n 1009	232	
Isabella Wineman	6/2-26D	1-12"	29	45	126	153	159	179	123	55	p 869	174	
Isabella Wineman	6/2-26J	1-14"	37	192	230	316	288	287	253	91	q 1694	338	
Hass Slough													
Raahauge and Joseph	6/2-33H	1-12"								76	r 76	40	
Reclamation District 2068	6/2-34C	2-30" 1-36"	1299	5940	6108	10127	11225	10670	8324	6411	s 60104	t 12639	
Francis F. Gunning	6/2-34P	1-16"		174	213	223	256	246	223	99	u 1434	340	
Cache Slough													
Ervin E. Vassar	5/2-4B	1-14"		110	146	110	135	142	156	30	v 829	260	
Jack Parker	5/2-4K	1-12"		22	52	36	28	30	50	54	w 272	120	
Ervin E. Vassar	5/2-4K	x 1-20"		358	417	583	862	898	385	420	y 3923	715	
Calhoun Cut													
Hamilton and Nyman	5/1-25D	1-10"		6	7	13	10	15	3	7	61	22	
Matilda Hall	5/2-19J	1-10"		26	50	64	56	46	32	31	305	90	
[illegible] WATER													
B. F. Porter Estate [illegible]	2/3-19E	1-16"	17	17	17	17	17	17	17	16	z 135	18	
Benjamin Holt	2/[illegible]-2B	1-12"				PLANT REMOVED							
George Emde	3/5-23L	1-10"	14	27	55	91	89	79	60	50	465	120	
George Emde	3/5-14L	1-14"			69	82	137	131	47	92	aa558	112	
Cotta and Sousa	4/5-34[illegible]	1-16"	51	106	135	137	168	237	188	71	ab 1093	ac 440	
W. C. Hamel	6/3-3B	1-14"				NO DIVERSION							
H. L. Sorensen (b)	6/3-18F	1-14"		143	178	227	248	201	153	115	1282	225	
H. L. Sorensen	6/3-20J	ad 1-14"				109	184	12	126	82	513	ae 500	
H. L. Sorensen	6/3-17E	1-14"		129	172	261	394	262	153	406	ae,af 1777	ag 500	
H. L. Sorensen	6/3-3D	1-14"		42	417	299	356	224	80	246	q 1664	ag	
H. L. Sorensen	6/3-3L	1-16"		73	188	471	319	18	184	102	ah 1517	275	
Reclamation District 2068	6/2-25P	1-12"									ai		

TABLE 217

DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS
(Miscellaneous Delta Uplands)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
Subirrigated Lands (aj)			94	252	315	410	441	441	315	126	2394	630	
Stone Lake Diverters (ak)	am 6/4-36N	Gravity				421	1912	1122	826	516	4797		
MISCELLANEOUS DELTA UPLANDS													
Totals			2462	9054	11838	17907	21996	19668	14293	10206	107424	21693	735
Average cubic feet per second			40	152	193	301	358	320	240	166	221		
DELTA UPLANDS													
Totals			15012	31486	40800	64701	76113	66587	40474	20776	355949	112428	1064
Average cubic feet per second			244	529	664	1087	1238	1083	680	338	732		
Monthly use in per cent of seasonal			4.2	8.8	11.5	18.2	21.4	18.7	11.4	5.8			

* Figures represent North Townships, East Ranges, and sections. Letters represent the ¼-¼ sections which are lettered from A through R excluding I and O, similar to the numbering of sections within a township.

a New installation in 1956.
b Installed prior to 1956. Not previously listed.
c This acreage was reused for duck ponds.
d Additional acre-feet diverted: November 48.
e Additional acre-feet diverted: November 70 and December 9.
f Additional acre-feet diverted: Noverber 25 and December 190.
g Combined acreage for two plants at 4/5-28B. This acreage also received an undetermined amount of water from the Woodbridge Irrigation District and was reused for duck club lands.
h Additional acre-feet diverted: November 117.
i Additional acre-feet diverted: November 9 and December 64.
j Additional acre-feet diverted: November 33.
k Replaces a 6" unit.
m Additional acre-feet diverted: December 10.
n Additional acre-feet diverted: November 25.
p Additional acre-feet diverted: November 30.
q Additional acre-feet diverted: November 65.
r Additional acre-feet diverted: November 22 and December 11.
s Additional acre-feet diverted: November 2167 and December 31.
t Includes 1385 acres outside the district.
u Additional acre-feet diverted: November 41 and December 21.
v Additional acre-feet diverted: November 36.
w Additional acre-feet diverted: November 60.
x Replaces an 18" unit.
y Additional acre-feet diverted: November 65 and December 33.
z Includes an undetermined amount of Marsh Creek water.
aa Additional acre-feet diverted: December 43.
ab Additional acre-feet diverted: November 34.
ac This acreage also received an undetermined amount of water from Woodbridge Irrigation District.
ad Replaces a 12" unit.
ae 300 acres listed for 6/3-20J also received an undetermined amount of water from 6/3-19E.
af Additional acre-feet diverted: November 59 and December 29.
ag Combined acreage for 6/3-19E and 6/3-30D.
ah Additional acre-feet diverted: November 51 and December 25.
ai Diversion in 1956 was all controlled drainage water. Additional acre-feet diverted: November 45.
aj Estimated consumptive use on lands in Delta Uplands considered as subirrigated from tidal channels during 1956 without a specific point of diversion.
ak Not previously listed.
am Point of diversion is considered to be the control gates at Lambert Road.

TABLE 218

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Vernalis to Fremont Ford Bridge)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
--DURHAM FERRY BRIDGE - GAGING STATION - SAN JOAQUIN RIVER NEAR VERNALIS--	76.7												
A. J. Chisholm	78.9R	1-10" a 1-3"			3	110	210	232	2	25	582	390	
Cruze, Gonsalves, and Moresco	79.4R	1-20"		1	1	17	21	70	23		133	b 80	
--STANISLAUS RIVER--	79.7R												
W. C. Blewett Estate	80.7L	1-12"		45	33	64	216	183	48	37	626	209	
W. C. Blewett Estate	81.8L	2-12" 1-14"	428	243	370	374	713	766	277	71	c 3242	1080	
--MAZE ROAD BRIDGE - RECORDING GAGE--	81.85												
Blewett Mutual Water Company	81.95L	1-10" 2-12"	588	271	645	971	935	773	541	134	d 4858	1070	
El Solyo Water Company	82.0L	1-10" 3-18"	1634	2131	1637	3177	3349	2866	1870	264	e 16928	f 3591	
--GAGING STATION - SAN JOAQUIN RIVER AT HETCH HETCHY WATER SUPPLY CROSSING--	82.65												
El Solyo Ranch	g 83.5L	1-12"		52	29	46	135	139	125	47	573	132	
El Solyo Ranch (h)	83.7L	1-12"						21	13		34	40	
Faith Ranch	84.4R	1-20"				197	221				i 418	400	
--TUOLUMNE RIVER--	91.0R												
--RECORDING GAGE--	91.6L												
--WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8L												
West Stanislaus Irrigation District	91.8L	1-12" 1-24" 6-26"	7016	10846	6452	14196	13512	9790	4713	1253	j 69778	k 23344	
Fred Lara #1	**(0.6S)	1-14"		94		130	127	73	5		429	210	

TABLE 218

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Vernalis to Fremont Ford Bridge)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	File and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
Frank Sarmento #1	**(0.7N)	2-16"	[illegible]	91	166	404	399	410	72		1630	m 930	
Frank Sarmento #2	**(1.1N)	1-14" 1-16"	259	469	341	374	905	522	41		2911	n	
Fred Lara #2	**(2.2S)	1-16"		24	9	43	20	12	14		n 122	p 65	
Frank Sarmento #3	**(2.3N)	2-16"	27	115	125	26	116	141			550	347	
J. V. Steenstrup Estate	93.1R	2-12"					65	46	33		164	131	
Walter W. Crawford	93.2L	1-6"				NO DIVERSION					q		
George Covert	894.1L	1-3" r 2-6"		51	50	88	102	110	71	8	s 480	95	
Rancho Dos Rios	94.7R	1-12"		45	190	75	207	207	184	108	t 1016	u 406	
L. S. Crane	95.5R	v 1-16"		113	145	283	199	241	65	95	w 1141	x 194	
Bostick Brothers	95.8R	1-10"				54	139	105	20		318	86	
W. F. Cook	96.0L	1-18"	59	142	216	284	291	362	176	52	y 1582	500	
--GAGING STATION - SAN JOAQUIN RIVER AT GRAYSON (LAIRD SLOUGH BRIDGE)--	96.05												
E. S. Brush	98.5R	1-7"						4	8		z 12	5	
Rancho El Pescadero	98.9L	1-18"		50	22	223	549	387	45		1276	aa 875	
John C. Tosta	103.0L	1-14"		20	4	30	21	15	16	1	107	44	
--PATTERSON BRIDGE - RECORDING GAGE--	104.4												
Patterson Water District (ab)	104.4L	1-14" 2-18" 3-20" 1-36"	4378	4701	5520	7177	8113	7334	4340	542	ac,ad 42105	ae 13626	150
Chase Brothers	104.5R	1-10"	121	194	311	118	361	352	350	111	1918	282	
M. L. Simmons	104.52L	1-5" af 1-4"			2	4	4	2	2		14	9	
Charles Kincaid (ag)	104.7L	1-3"				NO DIVERSION							
Chase Brothers	106.5R	1-10" 1-12"	189	78	192	436	364	299	126	123	1807	500	
Tony Spinelli	109.1R	1-12"	28	1	85	37	63	62	36	26	ah 338	79	
Twin Oaks Irrigation Company	109.8L	1-12" 2-16" 1-18"	494	1245	901	1573	1376	1475	860	50	ai 7974	ad 1659 aj	390
T. J. Henderson	11[illegible].8R	1-8"				NO DIVERSION					ak		
J. Holtzman	112.5L	1-3"				NO DIVERSION							
L. A. Thomson and J. H. Barbour	112.55R	1-16"	166	142	136	336	211	282	262	57	1592	am 367	
Turlock Sportsmen Club (an)	113.3R	1-2"	2	5	6	4	7	8	8	7	47	4	
Frank C. Mosier	113.4R	1-10"	89	68	124	130	134	128	115	78	ap 866	175	
--CROWS LANDING BRIDGE - RECORDING GAGE--	113.5												
A. J. Silveria	113.65R	1-6"				NO DIVERSION							
A. J. Silveria	114.35R	af 1-4" 1-7"	5		13	12	11	11	4		54	26	
Ezel F. Crow	114.6L	1-2"			3	7	11	16	16	5	58	9	
Frank C. Mosier	114.63R	1-8"	32	27	6[illegible]	50	65	64	53	37	346	9[illegible]	
Vernal A. Serpa	114.75R	2-10"	14	182	198	243	233	238	166	40	ar 1314	212	
Ezel F. Crow	115.4L	1-16"				NO DIVERSION							
Roy F. Crow	115.8L	1-10"	221	49	37	253	231	109	64		aq 964	ar 144	
I. B. Crow	116.15L	1-14"	104	120	112	181	162	204	83	27	e 993	as 210	
John W. Greer	116.5R	1-12"	132	263	124	266	308	370	129		1592	at 280	
[illegible]. L. McCoy	8d116.45R	1-10" 1-12"	14	27	42	41	71	70	52	34	au 351	av 91	
--[illegible] CANAL --	1[illegible]												
--[illegible] CANAL --	1[illegible].7												
--[illegible] CANAL--	121.7[illegible]												
VERNALIS TO FREMONT FORD BRIDGE Totals Average cubic feet per second Monthly use in per cent of season			[illegible]947 262 9.4	21405 368 12.8	20312 330 11.8	32034 538 18.7	34197 556 [illegible].0	28499 463 16.6	15026 252 8.8	3234 53 1.9	171302 353	52032	540

Notes on Page 1[illegible]

TABLE 218

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Vernalis to Fremont Ford Bridge)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

* Mileage along San Joaquin River from its mouth 4½ miles below Antioch.
** West Stanislaus Irrigation District Intake Canal joins the San Joaquin River at Mile 91.8L. Distance from the San Joaquin River and bank are shown in ( ).
δ Pumping plant is located on Old Channel which joins the San Joaquin River at this mile.
δδ Pumping plants are located on drain which joins the San Joaquin River at this mile.
a The 3" unit was a temporary installation during 1956.
b Includes 10 acres which also received an undetermined amount of water from controlled drainage.
c Additional acre-feet diverted: November 9 and February 23.
d Additional acre-feet diverted: November 107
e Includes an undetermined amount of water returned to river by spill. Additional acre-feet diverted: November 406.
f Includes 268 acres which also received an undetermined amount of well water and an undetermined amount of controlled drainage water.
g Previously listed as Mile 83.3L.
h New installation in 1956.
i Additional acre-feet diverted: December 29.
j Additional acre-feet diverted: November 309.
k This acreage also received 10310 acre-feet of Delta-Mendota Canal water as follows: April 353, May 201, June 1151, July 3780, August 3338, and September 1487. Of this acreage, 2242 was double cropped. Includes 2098 acres irrigated outside the district. Portions of this acreage received an undetermined amount of well water.
m Combined acreage for Miles **(0.7N) and **(1.1N).
n Additional acre-feet diverted: November 8.
p Of this acreage, 25 was double cropped.
q Acre-feet diverted: November 5.
r One 6" unit was a temporary installation in 1956.
s Additional acre-feet diverted: November 33.
t Additional acre-feet diverted: November 1 and December 1.
u Of this acreage, 120 was double cropped.
v Replaces a 10" unit.
w Additional acre-feet diverted: November 6.
x Of this acreage, 44 was double cropped and 23 received an undetermined amount of Turlock Irrigation District water.
y Additional acre-feet diverted: November 1 and December 2.
z Additional acre-feet diverted: November 4.
aa Of this acreage, 14 was double cropped and 725 received an undetermined amount of well water.
ab Formerly listed as Patterson Water Company.
ac Additional acre-feet diverted: November 10.
ad 70 acres listed for Mile 104.8L also received an undetermined amount of water from Mile 104.4L.
ae Of this acreage, 226 was double cropped. This acreage also received 2099 acre-feet of Delta-Mendota Canal water as follows: April 360, May 279, June 397, July 346, August 449, and September 268.
af The 4" unit was a temporary installation during 1956.
ag Formerly listed as Harry Black.
ah Additional acre-feet diverted: November 1.
ai Additional acre-feet diverted: November 9.
aj Of this acreage 686 was double cropped.
ak Additional acre-feet diverted: November 26.
am Of this acreage, 107 was double cropped and 30 received an undetermined amount of water from controlled drainage.
an Installed prior to 1956. Not previously listed.
ap Additional acre-feet diverted: November 2.
aq Additional acre-feet diverted: November 45.
ar Of this acreage, 35 was double cropped and 101 received an undetermined amount of Central California Irrigation District water.
as Of this acreage, 30 was double cropped.
at Of this acreage, 110 was double cropped.
au Includes an undetermined amount of controlled drainage water. Additional acre-feet diverted: November 3.
av Of this acreage, 23 was double cropped.

TABLE 219

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Fremont Ford Bridge to Gravelly Ford)
Diversion Year Nov. 1955 thru Oct. 1956

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet												Total Diversions Nov.-Oct. Acre-feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5																
Stevinson Corporation	135.7R	1-14"					45	34	42	2		96	5	25	249	a 305	
Erreca Farms	161.4R	1-8"								7	27	44			b 78	36	
Erreca Farms	161.9R	1-18"					160	212		222	182	312			1088	b,c 606	
Dye Farms	163.2R	1-12"					89	45		172	202	221	90		819	d 468	
D. L. McNamara	e 163.6R	1-16"					16	5						57	78	60	
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS--	186.0																
San Luis Canal Company	f 186.6L	Gravity	4687	2920			16439	15580	17637	25839	28931	25190	18077	7742	163042	39934	875
--FIREBAUGH BRIDGE--	198.4																
Antone Zaninovich	206.02R	1-4"								12	11	13			36	16	
--GAGING STATION SAN JOAQUIN RIVER NEAR MENDOTA--	206.2																
--MENDOTA DAM--	208.63																
--DELTA-MENDOTA CANAL--	208.63L																
Central California Irrigation District	g 208.63L	Gravity	7977	1896		2523	56583	53629	74334	90557	88157	81169	45995	23397	h 526217	i 128917	8530
Grasslands Water Association (j)	k	k	1228	6714									169	14834	22945		
Laguna Water District (j)	k	k							60	20			2		82	90	35
Panoche Water District (j)	k	k				256	2340	773	456	2206					6031	31493	706
Firebaugh Canal Company	g 208.63L	2-24" 2-36" 2-42"	670	631		143	6720	9082	10100	13228	15372	13839	5042	2620	77447	18212	4580
--FRESNO SLOUGH--	208.93L																
--LONE WILLOW SLOUGH--	219.8R																
Columbia Canal Company	219.8R	m	2323	1394	14	51	6684	6183	8295	10451	9209	8686	6266	2977	62533	12979	1375
Chowchilla Canal Company (j)	n 219.8R						1250		821	2694	127				4892		
--GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE--	219.83																

TABLE 219

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Fremont Ford Bridge to Gravelly Ford)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet												Total Diversions Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
United Farms Company	225.2L	1-12"						NO DIVERSION									
Rose Campbell	232.55L	1-4'						19	4	10					33	p 14	
--HEAD OF GRAVELLY FORD CANAL--	232.8R																
FREMONT FORD BRIDGE TO GRAVELLY FORD																	
Totals			16885	13555	14	2973	90326	85562	111749	145420	142218	129570	75646	51652	865570	23313[illegible]	16101
Average cubic feet per second			284	220	0	52	1469	1438	1817	2444	2313	2107	1271	840	1192		
Monthly use in per cent of seasonal			2.0	1.6	0	0.3	10.4	9.9	12.9	16.8	16.4	15.0	8.7	6.0			

* Mileage along San Joaquin River from its mouth 4½ miles below Antioch.
a This acreage also received an undetermined amount of East Side Canal Company water.
b 171 acres of general crops listed for Mile 161.9R also received an undetermined amount of water from Mile 161.4R.
c This acreage also received an undetermined amount of well water.
d Includes 358 acres which also received an undetermined amount of well water.
e Plant is located on East Side Canal which joins the San Joaquin River at this mile.
f Point of diversion is at head of Temple Slough.
g Point of diversion is considered to be Mendota Pool.
h Includes main and outside canals and Helm Ditch.
i Includes some double cropping and interplanting.
j Data furnished by U. S. Bureau of Reclamation.
k This water was transported by the Central California Irrigation District.
m Includes gravity diversion in Lone Willow Slough, and the Mowry Canal and Columbia pumps in Mendota Pool.
n Point of diversion is on Lone Willow Slough, 2.3 miles below head.
p Includes 2 acres which also received an undetermined amount of well water.

TABLE 220

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Gravelly Ford to Friant Dam)
Diversion Year Nov. 1955 thru Oct. 1956

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet												Total Diversions Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
W. A. Kochergen	233.66R	1-6"	17						52	110	26				205	a 6[illegible]	
W. A. Kochergen	234.00R	1-6"						NO DIVERSION									
Ernest D. Hart	235.03L	1-3"	3				1	1	1	1	1	2	2	1	13	[illegible]	
Dewey [illegible]. Johnson (b)	235.33R	1-5" c 1-6"					1	18	66	122	44	35	19	4	311	d 96	
Santos Carrasco (e)	236.28R	1-6"						NO DIVERSION									
--GAGING STATION - SAN JOAQUIN RIVER NEAR [illegible]--	236.4R																
Smith, McInturf, and Hansen (f)	237.33L	1-[illegible]"					11			1	26				3[illegible]	g 7[illegible]	
[illegible] Beatty	237.43L	1-6"						PLANT REMOVED									
J. [illegible]. Peterson (h[illegible]	237.98R	1-6"					27	15	27	54	61	3[illegible]	[illegible]		23[illegible]	[illegible]9	
--[illegible] BRIDGE--	23[illegible].18																
--[illegible] RECORDING GAGE--	242.41L																
A. and [illegible]. [illegible]vergaard	243.[illegible]4R	1-5" 1-6"					53	[illegible]8	63	[illegible]	46				31[illegible]	i 14[illegible]	
C. [illegible]. [illegible]nes	244.[illegible]3L	1-5"						PLANT REMOVED									
Y. [illegible]. [illegible]nny	244.86L	1-7"	1[illegible]				1[illegible]			1[illegible]	21		[illegible]	6	[illegible]53	g 12[illegible]	
[illegible]. L. [illegible]er	245.36R	1-6"					26	52	46	7[illegible]	11				[illegible]	d 8[illegible]	
[illegible]	[illegible]45.[illegible]3[illegible]	1-1[illegible]"	1	1				1	1	1	1	1			[illegible]	[illegible]	
Y. [illegible]. [illegible]ny	245.[illegible]1L	1-[illegible]"	11			1									12	g, j 23	
[illegible]	[illegible]	1-5"						[illegible]									
[illegible]	[illegible].34L	1-[illegible]"						[illegible]									
[illegible] Valentine	[illegible]3L	1-5"						[illegible]									
--[illegible]--	[illegible]47.3[illegible]																
G. [illegible]erti and [illegible]	[illegible]	1-5"								[illegible]	[illegible]	1[illegible]	26	15	[illegible]	[illegible]	
[illegible]. [illegible]erti and [illegible]	[illegible]47.[illegible]	1-4"						[illegible]									
San [illegible] Power [illegible]	[illegible]	1-3"							1[illegible]	[illegible]3	1	[illegible]2			[illegible]	[illegible]	
--[illegible]--	[illegible]																

TABLE 220

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Gravelly Ford to Friant Dam)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet												Total Diversions Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
Mrs. Carl R. McKinley (m)	248.51L	1-3"	4			1	3	5	8	13	17	7	6	2	66	19	
--SANTA FE RAILROAD BRIDGE--	249.23																
Miller Brothers	251.46L	n 1-6"					9	12	30	52	79	77	17	28	304	52	
J. W. Carrell	253.0L	1-8"	17				65	77	164	202	196	168	148	80	1117	104	
J. W. Carrell	253.30L	1-4"	4				25	21	44	73	62	59	54	24	366	22	
Fred Russell	253.79R	1-6"	7				7	13	14	17	27	23	7	17	132	46	
L. L. Howard	254.82R	p 2-6"							33	24					57	q 42	
Sycamore Island Stock Ranch #7	**254.90	r 1-4"					6	17	1			28	14		s,t,u 66	a 13	
L. L. Howard	254.93R	1-6"								31	51	49	18		149	q	
Greiner and Wright	254.98L	1-7"	NO DIVERSION														
Sycamore Island Stock Ranch #6	**255.00	1-3"	1	1			2	4	12	13	9	6	9	7	v 64	30	
Fresno State College	255.05L	1-4"	NO DIVERSION														
Sycamore Island Stock Ranch #5	255.34R	1-6"						25	16	19	30	112	87		291	a,s 58	
Sycamore Island Stock Ranch #4	**255.84	1-5"						26	34	30	32	31	92	9	254	t,v 40	
Sycamore Island Stock Ranch #3	255.93R	1-4"					6	6	5	34	26	27	5	1	110	w 26	
Sycamore Island Stock Ranch #2	256.52R	1-6"					25	31	12	55	40	92	103		w 358	u,x 74	
Emma Pappas (y)	257.1L	1-8"								2	45	20	37		104	z 158	
Emma Pappas (y)	257.70L	1-12"								48	37	57	42		z 184	32	
L. D. Cobb	258.06R	1-6" 1-7"	16	1			3		83	171	162	91	62	18	607	aa 158	
--STATE HIGHWAY 41 BRIDGE--	258.33																
R. J. Curtis	258.39L	ab 1-4" 1-7"						24	34	43	65	47	19	2	234	46	
W. E. Roberts	258.80L	1-6"	5	1	?	2	15	7	10	23	28	34	22	18	167	ac 139	
W. E. Roberts #2	258.90L	1-12"					23	13	50	105	114	105	57	25	492	ac	
J. E. Cobb	259.39R	ad 2-6"	1				13	7	28	80	85	55	37	1	307	105	
--SITE OF OLD LAKES BRIDGE--	259.78																
Marjorie E. Sims	259.80L	1-6"						13	23	50	47	32	15		180	38	
J. E. Cobb	260.4R	1-6"	1				26	19	26	62	52	57	45	15	303	95	
Duane M. Folsom	261.10L	1-2½"	NO DIVERSION														
R. C. Arnold	261.53R	1-4" ae 1-5"	1				37	18	30	97	147	122	77	20	549	151	
Duane M. Folsom	261.6L	1-3½"	NO DIVERSION														
Duane M. Folsom	261.70L	1-6"						34	28	80	184	141	39	20	526	af 188	
E. C. Rank	**261.75	1-5"								8	17	10	6		41	20	
E. C. Rank	**261.90	1-5"								13	30	17	5		65	30	
E. C. Rank	**262.07	1-6"								16	36	23	9		86	40	
Duane M. Folsom	262.27L	1-8"					45		69	107	104	96	57	37	515	af 81	
A. Brown	262.43L	1-5"					12	6	9	26	32	36	12	4	ag 137	ah,ai 74	
E. C. Rank	262.45L	1-5"					6	9		1	6	3	2		ah 27	ag 63	
Dale McCoon	262.60R	1-6"	NO DIVERSION														
--SAMPLES RANCH RECORDING GAGE--	262.66																
W. H. Rohde	262.66L	1-7"	4				11		47	34	63	35	8		202	109	
Dale McCoon	263.40R	1-7"	29							36	120	105	54		346	87	
Dale McCoon	263.48R	1-6"					33	9		40	65	37	6	3	193	aj 91	
R. K. Jensen (ak)	263.76R	1-5"	28				80	56	73	119	116	118	104	38	732	am 81	
Pacific Coast Aggregate Company	264.00L	1-6" 1-8"	INDUSTRIAL USE ONLY														
H. W. Ball #1	an 264.00L	ap 1-5"					33	20							53	15	
H. W. Ball #2	an 264.00L	1-5"						12		11	11	9	3		46	23	
H. W. Ball #3	an 264.00L	1-3"	2				11	14	9	30	32	31	21	9	159	10	
H. W. Ball #4	264.08L	1-6"						16			75	4	69	38	202	aq 30	
Ike O. Ball	264.60R	1-6"	32				45	40	76	86	98	102	82	42	603	35	
W. F. Ball	264.83L	1-4" 1-5"	7				16	16	25	56	48	58	47	14	287	34	

TABLE 220

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER (Gravelly Ford to Friant Dam)(contd.)
Diversion Year Nov. 1955 thru Oct. 1956

Water User	Mile and Bank *	Number and Size of Pump	Monthly Diversions in Acre-Feet												Total Diversions Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
V. [illegible]. Roullard	265.3 L	1-6"							16	31	76	57	42		222	74	
V. D. Roullard	265.40L	1-5"	3				16	10	20	44	47	47	42	18	247	17	
Virgil Durando (ar)	267.56L	1-7"	12	2		2	43	51	1	128	149	187	87	6	668	215	
--GAGING STATION - SAN JOAQUIN RIVER BELOW FRIANT--	268.13L																
--FRIANT BRIDGE--	268.68																
Wishon-Watson Company	269.18R	1-5"							15	22	28	33	1		99	41	
--COTTONWOOD CREEK--	269.53R																
--FRIANT DAM--	269.63																
GRAVELLY FORD TO FRIANT DAM Totals			216	6	2	6	747	772	1335	2647	2942	2553	1732	522	13480	3661	0
Average cubic feet per second			4	0	0	0	12	13	22	44	48	42	29	8	19		
Monthly use in per cent of seasonal			1.6	0	0	0	5.5	5.7	[illegible].9	19.7	21.8	1[illegible]	12.9	3.9			

* Mileage along San Joaquin River from its mouth 4½ miles below Antioch.
** Point of diversion and place of use is on island in midstream.
a This acreage was double cropped.
Formerly listed as J. E. Fuller.
c The 6" unit was a temporary installation during 1956.
d This acreage also received an undetermined amount of well water.
e Formerly listed as F. Boldorott.
f Previously listed as Smith and McInturf
g This acreage also received an undetermined amount of Fresno Irrigation District water.
h Previously listed as Milton A. Peterson.
i This acreage also received an undetermined amount of Madera Irrigation District water.
j Eight acres listed for Mile 245.01L also received an undetermined amount of water from Mile 244. 6L
k Previously listed as George Mordeca.
m Formerly listed as Fred B. Funch.
n Previously listed as a 5" unit.
p One 6" unit replaced a 5" unit.
q Combined acreage for Miles 254. 2R and 254. 3 .
r This is a portable unit which diverted water at Miles **254.90, 255.4R, and **255.5 in 1956.
s 21 acres listed for Mile 255.34L also received 8 acre-feet of water from portable unit listed as Mile **254.90.
t 36 acres listed for Mile **255.84 also received [illegible] acre-feet of water from portable unit listed as Mile **254.90.
u 15 acres listed for Mile 256.52R also received one acre-foot of water from portable unit listed as Mile **254.90.
v 36 acres listed for Mile **255.84 also recieved an undetermined amount of water from Mile**255.90.
w The acreage listed for Mile 255.[illegible] also received an undetermined amount of water from Mile 256.52R.
x Of this acreage, 50 was double cropped.
y Formerly listed as Holland Ranch and Development Corporation.
z The acreage listed for Mile 257.1L also received an undetermined amount of water from Mile 257.70L.
aa Of this acreage, 64 was triple cropped.
ab The 4" unit was installed in 1956.
ac Combined acreage for Miles 25[illegible] and 25[illegible].90L. Of this acreage 13 was double cropped.
ad One 5" unit previously listed as a 7" unit.
ae The 5" unit was installed in 1956.
af Of this acreage, 15 was double cropped.
ag 38 acres listed for Mile 262.4[illegible]L also received an undetermined amount of water from Mile 262.43L and a well.
ah 24 acres listed for Mile 262.43L also received an undetermined amount of water from Mile 262.48L.
ai Of this acreage, 5 was double cropped.
aj Of this acreage, 33 was double cropped.
ak Previously listed as Richard Jensen.
am Of this acreage, 30 was double cropped.
an Plant is located on pond whose major source of supply is the Pacific Coast Aggregate Company plant located at this mile.
ap Previously listed as a 6" unit.
aq Of this acreage, 20 was double cropped.
ar Formerly listed as Durando and Bellin.

TABLE 221

DIVERSIONS AND ACREAGES IRRIGATED - FRESNO SLOUGH AND JAMES BYPASS*
Diversion Year Nov. 1955 thru Oct. 1956
(The following table arranged from data compiled by U.S. Bureau of Reclamation)

Water User	Mile** From	Mile** To	Monthly Diversions in Acre-Feet												Total Diversions Nov.-Oct. Acre-Feet	Acreage Irrigated	
			Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
State of California Mendota Waterfowl Management	6.45	[illegible].2[illegible]	1406	524			145	276	872	1111	1460	1531	2819	1833	11777		
Traction [illegible]	#([illegible].75)						627	200	1097	[illegible]56	954	434	12	22[illegible]	4502	1015	600
Reclamation District 16[illegible]	#(1.[illegible])							38	65	125	93	79			400	45	45
James Irrigation District	#(4.4[illegible])						1279	936	460	1613	4316	4764	1997	1331	16696	1741[illegible]	1526
Fresno Slough Water Association	[illegible].2[illegible]	1[illegible].5	46				563	145	776	1035	904	730	290	121	461[illegible]	960	241
Tranquillity Irrigation District	1[illegible]	13.75					3941	863	3047	4167	5254	4532	1[illegible]27	91	[illegible]4541	7404	1352
Melvin [illegible]. Hughes	1[illegible]		5									48			[illegible]	50	
[illegible] Totals			15[illegible]2	524	[illegible]	[illegible]	6555	2458	6117	9007	12[illegible]61	1[illegible]211	6[illegible]45	4417	62624	26[illegible]	3764
Average cubic feet per second			25	[illegible]	0	[illegible]	107	41	99	151	211	1[illegible]7	117	7[illegible]	86		
Monthly use in per cent of seasonal			[illegible].4	[illegible]	[illegible]	0	10.5	3.9	9.8	14.4	[illegible].7	1[illegible].4	11.1	7.[illegible]			

* The water in Fresno Slough and James Bypass is mainly derived from the San Joaquin River (Mendota Pool backwater created by Mendota Dam) and is occasionly augmented by flows from the Kings River via James Bypass.

** Mileage along Fresno Slough from its mouth at Mile 20[illegible].93L on the San Joaquin River.
\# Plant is located on James Bypass. Mileage above confluence of James Bypass with Fresno Slough is indicated in ( ).

TABLE 222

DIVERSIONS AND ACREAGES IRRIGATED - MERCED RIVER
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
--HILLS FERRY BRIDGE--	1.1												
Stevinson Water District #1	1.8R	1-16"			73	95	210	74	161		613	325	
Stevinson Water District #2	3.8R	1-20"	55	348	179	706	356	551	486	212	a 2893	b 816	
Milton Gordon	4.3L	1-10"	2	11		3	9	26	14	7	c 72	d 90	
--GAGING STATION - MERCED RIVER NEAR STEVINSON--	4.6												
Salvatore De Angelis	4.6L	1-12"			14	8	11	15	14	4	66	33	
Maria De Angelis	5.6L	1-12"	11	18	11	42	64	48	36	28	258	e 84	
Lydell Peck	6.1L	1-15"		12	58	232	147	187	142	44	f 822	g 274	
Stevinson Water District #3	7.7L	1-20"	253		45	66	211	61		83	h 739	i 1128	
Manuel Clemintino	8.5L	1-12"			21	29	8	26	22		j 106	60	
Manuel Clemintino	8.9L	1-12"		35	15		39	36	12		137	109	
Samuel B. McCullagh	9.4L	1-12"		89	35	182	139	169	113	9	j 736	229	
J. R. Jacinto	9.6L	1-12"	48	36	52	67	106	82	64	1	456	k 107	
R. W. Adams, I. B. Silva, L. Alves, and A. Mattos (m)	10.35L	1-10"	106	63	155	184	262	275	169	23	n 1237	p 408	
John Vierra	10.8R	1-3"	7	4	8	8	12	15	15	4	q 73	49	
Manuel Freitas	10.9L	1-12"	68	2	90	145	99	124	72	11	f 611	r 194	
R. E. Prusso and John Vierra	10.9L	1-5" 1-8" 1-12"	84	14	65	96	117	88	147	99	s 710	t 216	
M. Turner	11.25R	1-2"				1	1				2	5	
Tony Vierra	11.6L	1-5" 1-8"	79	14	123	115	109	143	131	10	u 724	128	
E. and J. Gallo Winery Ranch (v)	11.6L	1-12"	32	79	180	92	119	78	74		654	w 149	
--MILLIKEN BRIDGE--	11.65												
M. Turner	11.7R	1-4"							3		3	20	
E. and J. Gallo Winery Ranch	12.35L	1-10"		31	6	2	33	50			122	x	
Soren Husman	12.4L	1-6"			5	7	14	21	16	10	73	35	
M. Turner	12.8R	1-12"				8	9	12	9	2	40	30	
E. and J. Gallo Winery Ranch	12.85L	y 1-12"	76	136	19	277	241	163		118	z 1032	x 260	
Melvin Schmidt (aa)	13.1L	1-4"				NO DIVERSION							
M. Turner (ab)	13.4R	1-4"							2		2	10	
Anthony C. Pires	14.3R	1-6"		3	1		4	5	5		18	30	
J. M. Souza	14.5L	1-10"	27	8	32	53	75	57	38	14	j 304	ac 87	
Anthony C. Pires	14.8R	1-6"			1				8		9	29	
C. Koehn	14.8L	1-5"				NO DIVERSION							
J. E. Gallo	14.85L	1-4"				PLANT REMOVED							
Anthony C. Pires	15.4R	1-6"						7	4		11	20	
A. H. Stafford	16.2R	1-7"				10	6	5	5	4	30	26	
E. and J. Gallo Winery Ranch	16.5L	1-10"	73	84	13	176	164	102		39	ad 651	ae 150	
--RECORDING GAGE--	16.55												
C. J. Carpenter	17.05L	1-7"	3	5	7	22	24	39	31	12	f 143	af 73	
J. H. Thomas (ag)	17.7L	1-5"	1	7							8	ah 14	
S. Magsalay	18.1R	1-6"	2	5	9	12	13	10	11	1	63	32	
J. H. Thomas	18.4L	1-6"	12	10	19	21	34	32	30	14	ah,ai 172	30	
C. P. Hockett	18.5L	1-4"			6	7	9	8	8	5	ai 43	e 24	
H. L. Waters and W. Odell	18.6R	1-5"		5							5	6	
H. L. Waters and W. Odell	19.3R	1-6"		1	2	3	5	2			13	6	
S. P. Magsalay	19.8L	1-6"	4	6	3	2					j 15	18	
J. Francia	19.8L	1-6"	5	2	5	8	10	10	2	7	aj 49	18	
E. Schmidt (ak)	20.3R	1-6"		1	2	4	6	7	11	6	37	am 27	
J. E. Gallo	20.4L	1-7"	2	18	25	21	16	25			107	ae 110	
G. L. Carlson	20.6R	1-6"			5	11	9	18	11	6	60	35	
--U. S. HIGHWAY 99 BRIDGE--	21.04												
--SOUTHERN PACIFIC RAILROAD BRIDGE--	21.05												
A. C. Jorgensen #1	21.05R	1-6"				10	14	3			27	26	
A. C. Jorgensen #2	22.2R	1-10" 1-16"	28	45	65	54	80	136	66	32	506	213	

TABLE 222

DIVERSIONS AND ACREAGES IRRIGATED - MERCED RIVER (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
A. C. Jorgensen #3	22.8R	1-12" 1-15"		48	56	71	97	123	117	34	546	176	
Helena McConnell (an)	ap 23.0L	1-4"					3	3	4		10	22	
A. C. Jorgensen #4	23.6R	1-8"				PLANT REMOVED							
C. H. Passadori Jr.	24.2R	1-6"	14	14	17	18	29	14	11	6	aq 123	ar 38	
Arthur Dollinger (as)	24.5L	1-6"				10	10	3			23	35	
T. Nishihara	24.6R	1-6"				NO DIVERSION							
T. Nishihara	25.0R	1-5"		3	4	7	3	3			20	34	
T. Nishihara	25.5R	1-6"			3	3	4	13	2		25	46	
Merced River Farms Association	26.3R	1-8"	32	41	62	94	95	105	58	31	at 518	94	
W. C. Magneson	26.55R	1-5" 1-6"		14	8	33	43	20	16		134	51	
Joseph Vierra	26.8L	1-10"				NO DIVERSION							
--SANTA FE RAILROAD BRIDGE--	27.05												
W. C. Magneson	27.5R	1-10"			34	45	66	63	70		298	au 102	
--GAGING STATION - MERCED RIVER AT CRESSY BRIDGE--	27.6												
T. Nishihara	27.8R	1-6"	1	2			3	17	1	2	26	14	
Al and Harriet Wentzel	27.85L	1-1½"			1	1	1	2			5	5	
M. Uyekubo	28.1R	1-5"		2	1	5	7	6	3	1	25	av 19	
John Faria	28.4R	1-5"			4	11	8	8	6		37	16	
J. Campadonica	28.6R	1-6"					5	4	3		12	14	
Oliver Alves	28.6R	1-8"				38	34	19			91	71	
Anthony Demchille	29.1R	1-7"				27	19				46	68	
Anthony Demchille	29.75R	1-6"				17	4	18			39	aw 35	
Manuel Silva (high lift)	29.9R	ax 1-10"		1	7	35	64	103	51	6	267	95	
Manuel Silva (low lift)	29.9R	1-6"	18	24	32	98	134		92		398	ay 60	
Frances I. Rose	30.7L	1-6"		5	50	5	20	32	11	2	125	51	
Manuel Silva	30.95R	1-12"	43	4	12	97	143	50	20	59	428	az 125	
W. F. Bettencourt	31.1L	1-8"		5	19	53	62	64	17		[illegible]	87	
Manuel Silva	31.5R	1-6"				NO DIVERSION							
Jack Pretzer (ba)	31.6R	1-6"				NO DIVERSION							
P. Halaris	32.3L	1-8"	11		48	121	104	56			bb 340		
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	32.52												
Albert Chavas	33.1R	1-6"		47	46	29	84	61	12	2	283	105	
Evan Spiva	33.2L	1-4"				NO DIVERSION					bc		
Jack Pretzer (ba)	33.55R	1-6"					28	6			34	80	
W. F. Bettencourt, P. Halaris, and Cowel Land and Cement Company	36.9L	Gravity				844	1445	811	917	149	s 4166	bb,bd 817	
Reinert Brothers	39.2L	1-6"				NO DIVERSION							
Patzlaff Brothers (be)	40.2L	bf 1-4"	5	13	23	38	36	41	31		187	5[illegible]	
--GAGING STATION - MERCED RIVER BELOW SNELLING--	42.1												
MERCED RIVER													
Totals			1102	1317	1778	4479	5338	4397	3374	10[illegible]	22[illegible]2	[illegible]069	[illegible]
Average cubic feet per second			18	22	29	75	87	72	57	18	47		
Monthly use in per cent of seasonal			4.8	5.8	7.7	19.6	23.[illegible]	19.[illegible]	15.1	4.8			

a Additional acre-feet diverted: November 39.
b Of this acreage, 133 was double cropped.
c Additional acre-feet diverted: November 13, December 11.
d Of this acreage, 6 was double cropped.
e Of this acreage, 15 was double cropped.
f Additional acre-feet diverted: November 4.
g Of this acreage, 243 was double cropped.
h Additional acre-feet diverted: November 276, December 3, and January 1[illegible].
i Of this acreage, [illegible] was double cropped. Includes 1[illegible]1 acres which also received an undetermined amount of East Side Canal water.
j Additional acre-feet diverted: November 1.
k Of this acreage, 68 was double cropped.
m Previously listed as [illegible] and Mrs. J. [illegible] Silva.
n Additional acre-feet diverted: November 3, December 4.
p Of this acreage, 6[illegible] was double cropped.
q Additional acre-feet diverted: November 5.
r Of this acreage, 47 was double cropped.
s Additional acre-feet diverted: November 5[illegible].
t Of this acreage, [illegible]3 was triple cropped and 3[illegible] was double cropped.
u Additional acre-feet diverted: November 7, December 1, and February 1.
v Formerly listed as J. R. Silva.
w Of this acreage, 50 was double cropped.
x Combined acreage for Miles 12.35L and 12.[illegible]5L.
y A 10" unit was removed in 1956.
z Additional acre-feet diverted: November 160, December 167.
aa Installed prior to 1956. Not previously listed.
ab Reinstallation in 1955 of a plant previously removed.
ac Of this acreage, 34 was double cropped.
ad Additional acre-feet diverted: November 120, December 1[illegible]1.
ae This acreage also received an undetermined amount of well water.
af Includes 16 acres of McKelvey lands.
ag Formerly listed as Ervey Schmidt.
ah The acreage listed for Mile 17.7L also received an undetermined amount of water from Mile 18.4L.
ai Additional acre-feet diverted: November 3.
aj Additional acre-feet diverted: November 6.
ak Formerly listed as H. A. Jones
am Of this acreage, 11 was double cropped.
an New installation in 1956.
ap Portable unit diverted between Miles 23.0L and 23.4L in 1956.
aq Additional acre-feet diverted: November 9.
ar Of this acreage, 22 was double cropped.
as Formerly listed as Leonard Aue.

Notes (at) to (bf) on Page 158

TABLE 222

DIVERSIONS AND ACREAGES IRRIGATED - MERCED RIVER (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

at Additional acre-feet diverted: November 13.
au Of this acreage, 40 was double cropped.
av Of this acreage, 10 was double cropped.
aw Of this acreage, 19 was double cropped.
ax Replaces a 6" unit.
ay This acreage was double cropped.
az Of this acreage, 43 was double cropped.
ba Formerly listed as Albert Chavas.
bb 275 acres listed for Mile 36.9L also received 340 acre-feet of water from Mile 32.3L.
bc Acre-feet diverted: November 2
bd Of this acreage, 255 was double cropped.
be Formerly listed as E. M. Davis.
bf Replaces a 3" unit.

TABLE 223

DIVERSIONS AND ACREAGES IRRIGATED - TUOLUMNE RIVER
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
E. T. Mapes	0.4R	1-4"				NO DIVERSION							
E. T. Mapes	1.3R	1-20"	27	24	77	117	103	71	73	29	a 521	b 3025	
J. V. Steenstrup Estate	1.9L	1-12"				80	130	6			216	94	
J. DeSouza and J. B. Silva	2.2R	1-6"				NO DIVERSION							
J. V. Steenstrup Estate	2.9L	1-12"	51	49	92	126	144	264	226	36	988	c 270	
--GAGING STATION - TUOLUMNE RIVER AT TUOLUMNE CITY--	3.35												
Russell Murray	3.4L	1-5"		12		13	13	13	9		60	18	
Bancroft Fruit Farms	4.1R	1-12"			5	23	44	35	12		119	72	
Bancroft Fruit Farms	5.0R	1-10"	16	15	67	62	84	61	36	6	d 347	169	
Western Farms	6.3L	1-16"	3		9	22	9	27	13		83	45	
R. L. Maxfield	6.9R	1-7"	1	5	30	40	35	40	25	2	178	46	
Eugene Boone, Galen Hartwich, and Tony Lemos	7.1R	1-10"	70	18	56	63	85	64	62	36	e 454	160	
W. F. Duffy	7.2R	1-7"			22	31	8	35	13		109	43	
Ella T. Rahilly	7.8L	1-10"		11		34	45	19	28		137	f 43	
W. F. Duffy	8.4R	1-10"	34	14	56	59	32	103	78		376	g 124	
Ella T. Rahilly	8.5L	1-10"				52	28	21	24		125	82	
A. C. Watkins	9.4L	1-12"			143	20	104	85	106		h 458	90	
McClure Ranches	9.7R	1-12"		37		35	33	27	32	25	189	47	
Tuolumne Cooperative Farms Inc.	10.2R	1-14"	64	76	73	73	83	80	59	19	i 527	j 114	
G. B. and L. D. Podesto	15.75R	k 1-5"			3	3	6	4			16	24	
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.8												
--U. S. HIGHWAY 99 BRIDGE--	16.05												
--GAGING STATION - TUOLUMNE RIVER AT MODESTO--	16.1												
--DRY CREEK--	16.5R												
Jack Gardella	20.3R	1-10"	26	24	38	52	55	53	36	18	302	m 70	
Charles N. Whitmore	20.45L	1-6"				NO DIVERSION							
H. W. Ortman	20.5R	1-12"		7	5	22	28	4	8		74	81	
--SANTA FE RAILROAD BRIDGE--	21.6												
C. R. Trent	23.5R	1-1½" 1-6"				11	7	12	18		48	n 38	
C. S. Blakesley	23.6R	1-6"	3	5	5	8	10	5	3	3	42	16	
M. A. Goodman and Sons	25.6R	1-2"				PLANT REMOVED							
L. B. and J. H. Fox	25.8L	1-3"				10	4	54			68	85	
H. W. Low	26.6L	1-4"	9	10	19	23	15	18	13	12	119	p 60	
H. W. Low	27.0L	1-4"	8	17	16	30	27	30	25	13	166	50	
Paul J. Ferguson	27.3R	1-10"	4	9		27	11	11	8		70	q 19	
B. and L. Ranch	27.9R	1-12"	1	5	12	13	15	11		11	68	40	
Octavia McEwen (r)	28.1R	1-4"				5	6		3		14	s 30	
Ronald R. Painter	28.3R	t 1-3" 1-7"				4	8	7	2		21	28	
Michel Investment Company	28.8R	1-8"	18	50	74	86	92	90	76	44	530	110	
E. B. and D. V. Butterfield	u 28.9R	1-10"				22	17	24			63	60	
Hugh Merriam (r)	29.1R	1-8"				21	15	21			57	35	
J. W. and Lola May Short	v 29.2L	1-7"				4					4	p 10	
Charley Fairbairn (r)	29.3R	1-6"				28	35	25	22		110	67	

TABLE 223

DIVERSIONS AND ACREAGES IRRIGATED - TUOLUMNE RIVER (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
Firpo Ranch	30.2L	1-10"	18		32	60	20	39	48	7	w 224	x 95	
W. G. Chase	30.4R	1-4"	1	2	1	2					6	4	
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	31.5												
--GAGING STATION - TUOLUMNE RIVER AT HICKMAN BRIDGE--	31.7												
A. G. Laughlin	34.2R	1-6"				NO DIVERSION							
Donald Ketcham	38.4R	1-1½"	5	1	7	16	17	14	12	7	79	28	
A. E. Ketcham	39.4R	1-8"	18		22	76	34	45	21	19	235	75	
George H. Sawyer	39.8L	1-6"	3	5	39	29	63	37	10		186	y 342	
--GAGING STATION - TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE--	39.9												
George H. Sawyer (r)	40.8L	1-14"						41	28	31	100	y	
William J. Silva	43.3L	1-6"			6	15	14	11	2		48	8	
Gurtner Zanker	45.7L	1-10"	30		41	86	17	70	32	40	z 316	aa 98	
Dolling Brothers	46.3R	1-8"	22	22	69	64	91	101	60	29	ab 458	50	
O. F. Fine	46.7L	1-6"	7	2	7	10	5	16	8	3	z 58	14	
--GAGING STATION - TUOLUMNE RIVER AT LA GRANGE--	50.5												
TUOLUMNE RIVER													
Totals			439	420	1026	1577	1592	1694	1231	390	8369	5979	0
Average cubic feet per second			7	7	17	26	26	28	21	6	17		
Monthly use in per cent of seasonal			5.3	5.0	12.3	18.8	19.0	20.2	14.7	4.7			

a Additional acre-feet diverted: November 4.
b This acreage also received an undetermined amount of controlled drainage water from Modesto Irrigation District.
c Of this acreage, 95 was double cropped.
d Additional acre-feet diverted: November 5.
e Additional acre-feet diverted: November 53.
f Of this acreage, 15 was double cropped.
g Of this acreage, 11 was double cropped.
h Additional acre-feet diverted: November 13.
i Additional acre-feet diverted: November 9.
j Of this acreage, 17 was double cropped.
k Replaces a 3" unit.
m This acreage also received an undetermined amount of drain water from Empire Sewer Farm.
n Includes 15 acres of A. L. Leib lands which was double cropped.
p This acreage also received an undetermined amount of well water.
q Of this acreage, 9 was double cropped.
r New installation in 1956.
s This acreage also received an undetermined amount of slough water.
t The 3" unit was a temporary installation during 1956.
u Formerly listed as Mile 29.4R.
v Plant moved from Mile 29.4L in 1956.
w Additional acre-feet diverted: November 7.
x Of this acreage, 35 was double cropped.
y Combined acreage for Miles 39.8L and 40.8L. This acreage also received an undetermined amount of well water. Of this acreage 46 was double cropped.
z Additional acre-feet diverted: November 1.
aa Includes 8 acres of O. F. Fine lands.
ab Additional acre-feet diverted: November 22.

TABLE 224

DIVERSIONS AND ACREAGES IRRIGATED - DRY CREEK
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
Modesto and Arata	0.4R	1-6"				36	5	57	6		104	a 127	
--MODESTO-EMPIRE TRACTION COMPANY RAILROAD BRIDGE--	0.7												
--STATE HIGHWAY 132 BRIDGE (YOSEMITE BOULEVARD)--	0.8												
--LA LOMA BOULEVARD BRIDGE--	1.2												
James L. Melrose #1	5.0L	1-3"				6	3		1		10	b 13	
--GAGING STATION - DRY CREEK NEAR MODESTO (CLAUSS ROAD BRIDGE)--	5.4												
--SANTA FE RAILROAD BRIDGE--	6.4												
--CHURCH STREET BRIDGE--	7.2												
--WELLS FORD ROAD BRIDGE--	8.7												
Charles J. and Frances E. Carroll	9.7R	1-1½"		2	2	5	4	2	1		c 16	3	
K. D. Weaver	10.4R	1-6"					5	5	2		12	b,d 33	
Roy Brant	10.6R	1-5"				6	5	5	6		22	b 29	
--ALBERS ROAD BRIDGE--	11.0												
--MODESTO IRRIGATION DISTRICT CANAL CROSSING--	11.1												
Joe Fagundes, Jr. (e	12.0S1	1-6"			2	9	11	7	1		30	b 40	

TABLE 224

DIVERSIONS AND ACREAGES IRRIGATED - DRY CREEK (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
Irene Lucksinger (f)	12.1R	1-6"				7		2			9	12	
Edward Johnson (g)	12.6R	1-6"		1	10	16		14	22		h 63	i 100	
Irene Lucksinger (f)	12.7R	1-6"				8		4	10	2	24	i 27	
Irene Lucksinger (f)	13.4L	1-7"				NO DIVERSION							
Earl R. Petersen	14.4L	1-6"				2	3	3			8	18	
Joe Fagundes	14.7R	1-10"	44	75	113	123	149	128	95	75	j 802	90	
H. H. French	17.2R	1-8"	4	22	6	14	15	14	10		85	20	
--OAKDALE-WATERFORD HIGHWAY BRIDGE--	17.4												
DRY CREEK													
Totals			48	100	133	232	200	241	154	77	1185	512	0
Average cubic feet per second			1	2	2	4	3	4	3	1	2		
Monthly use in per cent of seasonal			4.1	8.4	11.2	19.6	16.9	20.3	13.0	6.5			

a This acreage also received an undetermined amount of controlled drainage water from Modesto Irrigation District.
b This acreage also received an undetermined amount of water from Modesto Irrigation District.
c Additional acre-feet diverted: November 1.
d Of this acreage, 8 was double cropped.
e Installed prior to 1956. Not previously listed.
f Formerly listed as Lucksinger Farms.
g Formerly listed as John Luiz.
h Additional acre-feet diverted: November 14.
i This acreage also received an undetermined amount of water from Oakdale Irrigation District.
j Additional acre-feet diverted: November 4.

TABLE 225

DIVERSIONS AND ACREAGES IRRIGATED - STANISLAUS RIVER
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
Roy Moresco	0.3R	1-6"				9					9	31	
E. W. Hawkins	0.9R	1-6"		7		8	20	9	4	3	51	36	
--GAGING STATION - STANISLAUS RIVER NEAR MOUTH--	1.9R												
A. J. Chisholm and C. M. Carroll	1.9R	a 1-3" 1-16"			9	36	62	91	105	12	315	75	
C. C. Angyal	2.4R	1-18"	105	110	7	390	377	361	77	26	b 1453	295	
Overton Ranch (O. F. Koetitz)	3.4L	2-12"	56	220	365	603	501	514	425	312	2996	400	
Reclamation District 2064	4.0R	1-14" 1-16" c 2-20"	664	773	1087	1647	1593	1496	721	460	d 8441	e 1922	
Reclamation District 2075	4.05R	2-16" 1-20"	1355	1139	1904	3121	3111	2816	2227	1137	f 16810	g 2756	
Louis W. Pelucca	4.8L	1-14"		79	31	46	57	46	7		266	50	
Henry Pelucca	5.5L	1-16"			154	54	129	85	46		468	180	
J. W. Updike	5.8L	1-12"				NO DIVERSION							
C. C. Updike	6.4L	1-12"		4		13	42	51	23	23	156	95	
D. J. Macedo (h)	8.4R	1-16"	138	139	260	321	264	292	230	89	1733	406	
N. E. Cannon	8.7R	1-10"	140	96	263	301	290	268	239	99	1696	204	
D. F. Koetitz	9.4L	1-10"	80	128	224	304	301	341	256		1634	370	
--RECORDING GAGE--	9.5L												
John L. Hertle	9.8L	1-10"	5	6	14	23	29	41	29	17	166	i 67	
E. Behlen and F. Upchurch	10.0R	1-16"				NO DIVERSION							
H. E. Van Veldhuizen (j)	12.7R	1-12"					11	12	20		43	30	
Dick Bus	12.8L	1-1½"					1	1	1	1	4	7	
--GAGING STATION - STANISLAUS RIVER NEAR RIPON--	15.7L												
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.7												
--U. S. HIGHWAY 99 BRIDGE--	15.7												
A. Girardi	17.7L	1-16"		25	22	199	216	185	57	66	k 770	m 308	
E. J. Freethy	19.0R	1-14"		53	79	81	107	130	56	59	573	193	
E. J. Freethy	19.5R	1-3" 1-4"				NO DIVERSION							
Allen Ranch	20.9R	1-14"	87	209	178	267	336	425	424	190	n 2116	p 400	

TABLE 225

DIVERSIONS AND ACREAGES IRRIGATED - STANISLAUS RIVER (contd.)
Diversion Year Nov. 1955 thru Oct. 1956
(Nov. 1955 thru Feb. 1956 - see footnotes)

Water User	Mile and Bank above Mouth	Number and Size of Pump	Monthly Diversions in Acre-Feet								Total Diversions March-Oct. Acre-Feet	Acreage Irrigated	
			Mar.	April	May	June	July	Aug.	Sept.	Oct.		General	Rice
Heath Ranch	21.2L	1-5"				14					14	14	
Newton Heisinger	21.9R	1-6"				PLANT REMOVED							
Philip S. Ghinchiolo and Son (q)	22.3R	1-10"				NO DIVERSION							
Ruth M. Ladd	24.2L	1-4"				NO DIVERSION							
--MODESTO-ESCALON HIGHWAY BRIDGE--	29.5												
F. K. Floden (r)	29.6L	1-10"						14			14	25	
--SANTA FE RAILROAD BRIDGE--	33.4												
--GAGING STATION - STANISLAUS RIVER AT RIVERBANK--	33.6												
R. P. Barton	36.2R	1-7"	1	4	2	29	35	29			100	160	
Oakdale Irrigation District (Crawford Pump)	s 37.7L	1-14"	14	197	119	228	316	298	92	16	t 1280	u 549	
Oakdale Irrigation District (Brady Pump)	s 39.1L	1-12"	10	27	23	60	171	149	76	9	525	v 452	
--OAKDALE - STOCKTON HIGHWAY BRIDGE--	41.2												
--SOUTHERN PACIFIC RAILROAD BHIDGE (OAKDALE BRANCH)--	41.2												
--GAGING STATION - STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE--	47.0												
George Moreno (w)	49.2L	x 1-3"	6	5	3	4	6	3	1	1	29	34	
J. S. Harden	50.5L	1-6"			19	17	26	9	6	11	88	41	
Walter B. Wilms	52.0L	1-10"	13	11	29	49	38	52	45	23	y 260	44	
--KNIGHTS FERRY BRIDGE--	54.5												
STANISLAUS RIVER													
Totals			2682	3234	4792	7824	8038	7718	5167	2554	42010	9144	0
Average cubic feet per second			44	54	78	131	131	126	87	42	87		
Monthly use in per cent of seasonal			6.3	7.6	11.2	19.0	19.0	18.2	12.5	6.0			

a The 3" unit was a temporary installation during 1956.
b Includes an undetermined amount of spill.
c One 10" unit was installed in 1956.
d Additional acre-feet diverted: November 19.
e Of this acreage 26 also received an undetermined amount of well water.
f Additional acre-feet diverted: November 12.
g Of this acreage 102 was double cropped, and 15 also received an undetermined amount of controlled drainage water.
h Formerly listed as Ekelund Ripon Ranch
i Of this acreage, 5 was double cropped.
j Formerly listed as C. S. Tornell.
k Includes an undetermined amount of spill.
m Includes 155 acres which also received an undetermined amount of Modesto Irrigation District water.
n Additional acre-feet diverted: November 30.
p This acreage also received an undetermined amount of well and slough water. Includes 110 acres which also received an undetermined amount of South San Joaquin Irrigation District Water.
q Formerly listed as Newton Heisinger.
r New installation in 1956.
s Oakdale Irrigation District for season of 1956 maintained plants at Mile 37.7L and 39.1L to supplement District gravity supply.
t Additional acre-feet diverted: November 9.
u This acreage also received an undetermined amount of water from the Stanislaus River, Mile 58.6L. Of this acreage, 200 was double cropped.
v This acreage also received an undetermined amount of water from wells and from the Stanislaus River, Mile 58.6L. Of this acreage 98 was double cropped.
w Formerly listed as Harry Himes.
x Replacee a 5" unit.
y Additional acre-feet diverted: November 3.

TABLE 226

DIVERSIONS FROM TULE RIVER
Diversion Year Nov. 1955 thru Oct. 1956

Water User	Mile and Bank *	Pump	Monthly Diversions in Acre-Feet												Total Diversion Nov.-Oct. Acre-Feet
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	
Pioneer Ditch	0.3R	Gravity	150	294			557	754	1194	1065	1061	328	113	365	5881
--GAGING STATION - TULE RIVER AT WORTH BRIDGE--	2.2														
Campbell-Moreland Ditch	3.2L	Gravity	468	785		667	1220	897	1163	1477	514	137	42	954	8324
Porter Slough	3.2R	Gravity		1474	6242	3555	1007	1521	1656	638					a 16093
Porter Slough Ditch	b 3.2R	Gravity			190	5	350	325	899	516					2285
Vandalia Ditch	3.9L	Gravity			219	247	83	265	425	259	75				1573
--SANTA FE RAILROAD BRIDGE--	5.9														
Poplar Ditch	6.6L	Gravity				327	2753	3209	6173	4733					17195
--STATE HIGHWAY 65 BRIDGE--	6.7														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.8														
Hubbs-Miner Ditch	7.2R	Gravity						127	1297	1246	593				c 3263
Rhodes-Fine Ditch	9.2L	Gravity							NO DIVERSION						
--OLIVE AVENUE BRIDGE--	10.7														
--PRIANT-KERN CANAL CROSSING--	11.3														
Woods Central Ditch	11.8L	Gravity					867	777	3039	1291					5974
--ROCKFORD AVENUE BRIDGE--	12.6														
--HUBBS-MINER SPILL--	12.9R														
Little Pioneer Ditch	15.0L	Gravity							NO DIVERSION						
--OTTLE BRIDGE--	15.2														
Totals			618	2553	6651	4801	6837	7875	15846	11225	2243	465	155	1319	60588
Average cubic feet per second			10	42	108	83	111	132	258	189	36	8	3	21	83
Monthly use in percent of seasonal			1.0	4.2	11.0	7.9	11.3	13.0	26.1	18.5	3.7	0.8	0.3	2.2	

* Mileage downstream from junction with South Fork Tule River.
a This figure is the measured diversion at head of Porter Slough minus the diversion of Porter Slough Ditch.
b Point of diversion is on Porter Slough, 4.5 miles below head.
c This figure is the measured diversion at head minus the measured spill to river at Mile 12.9R.

TABLE 227

EXPORTATIONS FROM SACRAMENTO-SAN JOAQUIN DELTA
(Nov. 1955 thru Oct. 1956)

Water User	Mile & Bank	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
							Cache Slough							
City of Vallejo	5/2-10D													
Total acre-feet diverted		637	467	570	505	699	702	986	1255	1263	1311	909	628	9932
Average cubic feet per second		11	8	9	9	11	12	16	21	21	21	15	10	14
Monthly diversion in % of seasonal		6.4	4.7	5.8	5.1	7.0	7.1	9.9	12.6	12.7	13.2	9.2	6.3	
							Old San Joaquin River							
Contra Costa Canal	30.5L													
Total acre-feet diverted		3122	249[illegible]	20[illegible]	1973	2470	3236	3751	5[illegible]	[illegible]1	5093	5476	4480	45295
Average cubic feet per second		52	41	33	34	40	54	61	[illegible]	69	83	92	73	62
Monthly diversion in % of seasonal		6.9	5.5	4.5	4.3	5.4	7.1	8.3	12.[illegible]	10.8	12.6	12.1	9.9	
Delta Mendota Canal	44.6L													
Total acre-feet diverted		20846	8499	3[illegible]	9152	25424	38638	22257	4446	194845	179142	93302	40380	697294
Average cubic feet per second		350	138	[illegible]	159	413	649	362	1083	3169	2913	1508	657	961
Monthly diversion in % of seasonal		3.0	1.2	[illegible]	1.3	3.7	5.5	3.2	9.2	27.9	25.7	13.4	5.8	

TABLE 228

OIVERSIONS AND ACREAGES IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS
Nov. 1955 thru Oct. 1956

Water User	Mile and Bank	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total	Acreage Irrigated: General	Acreage Irrigated: Rice
San Joaquin River																
Friant-Kern Canal	269.63L															
Total acre-feet diverted		10471	173	234	150609	156574	120726	107966	182107	200698	222416	142362	49923	1344259	372220	870
Average cubic feet per sec.		176	3	4	2618	2548	2029	1756	3060	3264	3617	2393	812	1852		
Monthly % of seasonal diversion		0.8	0	0	11.2	11.7	9.0	8.0	13.6	14.9	16.5	10.6	3.7			
Madera Canal	269.63R															
Total acre-feet diverted		0	0	0	2694	10475	15438	15348	45099	59608	56760	33406	220	239048	135049	12
Average cubic feet per sec.		0	0	0	47	170	259	250	758	969	923	561	4	329		
Monthly % of seasonal diversion		0	0	0	1.1	4.4	6.5	6.4	18.9	24.9	23.7	14.0	0.1			
Merced River																
Merced Irrigation District																
Main Canal	46.0L	0	0	0	[illegible]	36554	66461	78320	100224	103136	87417	62577	23947	a 558636	b 97931	4702
Northside Canal	46.0R	119	44	0	61	1142	2473	3507	4302	4840	4560	3308	1976	26332	3862	0
Total acre-feet diverted		119	44	0	61	37696	68934	81827	104526	107976	91977	65885	25923	584968	101793	4702
Average cubic feet per sec.		2	1	0	1	613	1159	1331	1757	1756	1496	1107	422	806		
Monthly % of seasonal diversion		0	0	0	0	6.4	11.8	14.0	17.9	18.5	15.7	11.3	4.4			
Tuolumne River																
Turlock Irrigation District	51.5L															
Total acre-feet diverted		14320	13580	76	90	63210	63710	83140	104500	116700	84530	61290	13260	c 618406	d 168331	0
Average cubic feet per second		241	221	1	2	1028	1071	1352	1756	1898	1375	1030	216	852		
Monthly % of seasonal diversion		2.3	2.2	0	0	10.2	10.3	13.5	16.9	18.9	13.7	9.9	2.1			
Modesto Irrigation District	51.5R															
Total acre-feet diverted		5664	8347	43	26	27925	51838	49815	63848	65714	50702	33058	11617	e 368597	f 68416	341
Average cubic feet per sec.		95	136	1	0	454	871	810	1073	1069	825	556	189	508		
Monthly % of seasonal diversion		1.5	2.3	0	0	7.6	14.1	13.5	17.3	17.8	13.7	9.0	3.2			
Waterford Irrigation Dist.	51.5R															
Total acre-feet diverted		0	0	0	0	2640	4971	6672	7359	7700	6414	5048	2862	43666	g 6952	0
Average cubic feet per sec.		0	0	0	0	43	84	109	124	125	104	85	47	60		
Monthly % of seasonal diversion		0	0	0	0	6.0	11.4	15.3	16.9	17.6	14.7	11.6	6.5			
Stanislaus River																
Oakdale Irrigation District																
Northside Canal	58.6R	154	[illegible]	0	0	9240	17033	18687	20190	6565	15972	9779	2719	100339	h 20379	2229
Southside Canal	58.6L	0	0	0	0	14468	16490	27914	31064	30856	28283	16133	4732	169940	i 34512	384
Total acre-feet diverted		154	0	0	0	23708	33523	46601	51254	37421	44255	25912	7451	j 270279	k 54891	2613
Average cubic feet per sec.		3	0	0	0	386	563	758	861	609	720	435	121	378		
Monthly % of seasonal diversion		0.1	0	0	0	8.8	12.4	17.2	19.0	13.8	16.4	9.6	2.7			
South San Joaquin Irr. Dist.	58.6R															
Total acre-feet diverted		2135	4757	0	12962	22613	33328	35712	46108	14477	41726	29609	7305	m 250732	n 62089	154
Average cubic feet per sec.		36	77	0	225	368	560	581	775	235	679	498	119	345		
Monthly % of seasonal diversion		0.9	1.9	0	5.2	9.0	13.3	14.2	18.4	5.8	16.6	11.8	2.9			
American River																
Natomas Water Company	28.8L															
Total acre-feet diverted		1080	750	233	972	1472	1487	1896	2204	2312	1734	1412	1552	17104		
Average cubic feet per sec.		18	12	4	17	24	25	31	37	38	28	24	25	24		
Monthly % of seasonal diversion		6.3	4.4	1.4	5.7	8.6	8.7	11.1	12.9	13.5	10.1	8.2	9.1			
San Juan Suburban Water Dist.	28.8R															
Total acre-feet diverted		1740	680	498	634	1045	1595	1784	2882	3129	2978	253	2018	21719		
Average cubic feet per sec.		29	14	8	11	17	27	29	48	51	48	43	33	30		
Monthly % of seasonal diversion		8.0	4.1	2.3	2.9	4.8	7.3	8.2	13.3	14.4	13.7	11.7	9.3			

a An additional 12[illegible] acre-feet of water was pumped from wells.
b Includes double cropped acreage.
c An additional 158,18[illegible] acre-feet of water was pumped from wells.
d Of this acreage, 18,898 was double cropped.
e An additional [illegible]4,542 acre-feet of water was pumped from wells.
f Of this acreage, 9,[illegible]41 was double cropped.
g Of this acreage, 411 was double cropped.
h Of this acreage, 42[illegible] was double cropped.
i Of this acreage, 104 was double cropped.
j An additional 47,659 acre-feet of water was received from wells, controlled drainage, and pumping plants on Stanislaus River, Miles 37.7L and 39.1L.
k Includes 1,001 acres listed for miles 37.7L and 39.1L.
m An additional 17,090 acre-feet of water was pumped from wells and an additional undetermined amount was received from controlled drainage.
n Of this acreage, 4,323 was double cropped.

TABLE 229

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
(Nov. 1955 thru Oct. 1956)
(The following table arranged from data furnished by U.S. Bureau of Reclamation)

Water User	Miles Distant from Head of Canal: From	To	Deliveries in Acre-feet: Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
Contra Costa Canal															
Contra Costa Co. Water Dist.															
Industrial and Municipal			[illegible]70	2140	1768	1687	2134	2358	2974	3550	3266	4399	4575	3882	35446
Agriculture			104	[illegible]		1	12	286	445	1413	1173	886	374	284	5032
Total			[illegible]	20[illegible]	[illegible]8	1[illegible]	214	2644	3419	4963	4439	5285	4949	4166	40478
Delta-Mendota Canal															
Plain View Water District	[illegible]	[illegible]	[illegible]			29	[illegible]8	2[illegible]13	1093	2594	3062	2547	1094	449	13944
Hospital Water District	[illegible]	3[illegible]	[illegible]				2072	2521	1605	4699	4117	3210	1547	488	20325
West Stanislaus Irr. District	[illegible]							[illegible]3	371	183	1095	3781	3390	1490	0	10310
Kern County Water District	[illegible].1	35.18	1[illegible]				557	954	732	1347	1696	1367	622	150	7435
Del Puerto Water District	[illegible].73	42.[illegible]	1[illegible]1	1[illegible]		[illegible]8	881	1133	1205	1876	[illegible]468	[illegible]280	903	157	11107
Patterson Water District	[illegible]	42.[illegible]	[illegible]				0	340	279	397	346	449	268	0	2099

TABLE 229

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS (contd.)
(Nov. 1955 thru Oct. 1956)
(The following table arranged from data furnished by U.S. Bureau of Reclamation)

Water User	Mile Post From Head of Canal From	To	Deliveries in Acre-feet Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
Salado Water District	42.10	46.00	9	0	0	11	508	947	556	472	1472	791	186	35	4987
Sunflower Water District	44.23	52.02	39	0	0	33	608	1687	712	1554	2242	1503	400	273	9051
Oreatimba Water District	46.83	50.66	0	0	0	0	461	1440	780	1110	1677	785	133	0	6386
Foothill Water District	51.65	57.46	4	5	0	0	159	270	574	826	904	759	220	47	3768
Davis Water District	54.01	56.82	0	0	0	0	108	217	445	520	664	401	140	0	2495
Mustang Water District	56.80	62.67	0	0	0	0	48	658	664	1152	1448	1568	897	66	6501
Quinto Water District	63.96	67.55	0	0	0	43	182	102	458	361	432	658	297	147	2680
Romero Water District	66.70	68.03	9	0	0	0	135	68	220	249	400	426	60	8	1575
San Luis Water District	69.21	90.57	402	80	0	0	1420	1355	1041	1881	3028	2536	898	183	12824
Panoche Water District	93.25		1295	75	0	272	4153	9195	3301	7974	9394	7676	2721	2147	48203
Eagle Field Water District	94.26		0	0	0	0	0	198	423	429	455	384	185	0	2074
Weat Side Golf Association	95.95		3	0	0	0	8	7	12	21	19	20	14	9	113
Oro Loma Water District	96.62		99	0	0	0	0	687	641	648	732	672	21	173	3673
Mercy Springs Water District	97.85		0	0	0	0	0	0	0	0	0	0	13	110	123
Widren Water District	102.03		0	25	0	0	0	190	351	274	327	335	76	9	1587
Broadview Water District	102.95		0	0	0	0	0	1080	1285	1965	2143	2099	1365	1525	11462
Total			2190	202	0	416	12268	25453	16560	31444	40807	33856	13550	5976	182722
								Madera Canal							
Madera Irrigation District	6.1	32.2	10	278	490	920	6714	8555	8908	22733	32873	30115	19775	446	131817
Chowchilla Water District	35.9		0	0	0	1460	2898	6166	6633	22037	26567	27208	14829	20	107818
Adobe Ranch	20.6		109	184	121	0	0	0	0	0	0	0	48	91	553
Total			119	462	611	2380	9612	14721	15541	44770	59440	57323	34652	557	240188
								Friant-Kern Canal							
International Water District	14.92		0	0	0	0	0	87	147	307	315	319	335	131	1641
Round Mountain Ranch	20.22		8	0	0	0	6	3	9	14	19	16	12	6	93
Consolidated Irrigation Dist.	28.52		0	0	0	0	0	0	8456	16512	0	0	5699	5935	36602
Tulare Lake Basin W. S. Dist.	28.52	95.67	0	0	0	0	0	0	0	0	2364	15144	4790	119	22417
Alta Irrigation District	28.52		1462	0	0	0	10610	4401	0	0	0	0	0	0	16473
Fresno Irrigation District	28.52		0	0	0	0	4171	5841	0	0	0	0	0	0	10012
Kings County Water District	28.52		0	0	0	0	0	0	2771	2233	0	0	0	0	5004
Orange Cove Irrigation Dist.	35.00	54.30	521	0	0	22	298	1010	1408	5550	6998	5994	3469	1188	26458
City of Orange Cove	43.44		9	1	0	0	2	12	18	22	21	17	19	15	136
Yettem-Seville Water District	54.40		0	0	0	0	0	0	0	0	0	0	583	117	700
Stone Corral Irrigation Dist.	56.90	64.40	89	0	0	0	397	341	363	1511	2138	1946	801	117	7703
Cottonwood Ditch Water Assn.	66.46		0	0	0	0	0	0	0	0	99	319	212	0	630
Ivanhoe Irrigation District	65.04	69.08	230	0	0	345	173	663	1591	3362	3754	3193	2033	770	16114
Kaweah-Delta Water C. Dist.	71.29		0	0	0	1462	39595	25447	0	0	0	0	0	2592	69096
Tulare Irrigation District	68.14	71.29	0	0	0	11639	21156	9086	3199	32299	41447	38097	25968	0	182891
Exeter Irrigation District	72.52	80.63	200	0	0	296	653	1176	2245	4501	4556	3707	2467	619	20420
Lindmore Irrigation District	81.17	93.20	1089	0	0	111	2973	2979	5058	8567	10203	8664	5685	2077	47406
Lindsay-Strathmore Irr. Dist.	85.56		1020	59	0	0	768	1063	2769	4064	4596	4171	3437	1740	23687
Lewis Creek Water District	85.60		0	0	0	10	50	81	129	246	13	7	10	0	546
Nunes Water District	95.67		0	0	0	0	0	0	0	0	462	1230	0	0	1692
Homeland Recl. Dist. No. 780	95.67		0	0	0	0	0	0	0	0	1851	4919	3479	0	10249
South Lake Farms	95.67		0	0	0	0	0	0	478	2261	0	0	0	0	2739
Lower Tule Irrigation Dist.	94.92	98.62	0	0	0	12302	21719	8864	13855	43484	53116	51039	32013	18405	254797
Porterville Irrigation Dist.	92.12	98.13	6	0	0	319	311	300	167	1432	1325	1289	885	498	6532
Cloer Com. Service District	101.60		0	0	0	0	40	0	20	71	87	0	0	103	321
Terra Bella Irrigation Dist.	102.65		276	0	0	0	105	69	268	1295	1654	1615	1210	498	6990
Saucelito Irrigation Dist.	98.62	107.37	16	0	0	1999	2505	1995	2690	5375	7648	6518	4100	793	33639
Delano-Earlimart Irr. Dist.	107.65	119.47	5637	1954	0	9404	21596	14180	13010	27951	30685	25071	14950	7414	171852
Rag Gulch Water District	117.96		36	0	0	599	460	454	526	1105	966	918	726	260	6050
So. San Joaquin Utility Dist.	120.07	128.05	1589	226	0	6631	15053	8793	10499	20097	24643	20285	10338	4681	122835
Pacific Gas and Electric Co.	128.52		0	0	0	95	0	11504	38641	0	0	24381	19623	0	94244
Pacific Gas and Electric Co.	150.83		71	226	0	0	0	0	0	0	0	0	0	69	366
County of Kern	151.80		0	0	0	0	8339	22360	0	0	0	0	0	0	30699
Buena Vista Water Serv. Dist.	151.80		0	0	0	94201	0	0	0	0	0	0	0	0	94201
Total			12259	2466	0	139435	150980	120709	108317	182259	198960	218859	142844	48147	1325235

TABLE 230

RELATION OF GAGE HEIGHT TO STREAM FLOW - 1955-56 WATER YEAR
SACRAMENTO-SAN JOAQUIN VALLEY STREAM GAGING STATIONS

STATION	Gage Height for rated flows of:								
	4000 cfs	5000 cfs	6000 cfs	7000 cfs	8000 cfs	9000 cfs	10000 cfs	12000 cfs	14000 cfs
Sacramento River	Flows under 30000 cfs are affected by tidal action and are rated by slope-velocity methods not applicable to this table.								
at Sacramento				12.0	12.6	13.2	13.8	14.9	15.9
at Verona		26.4	27.8	29.2	30.5	31.8	33.1	35.5	37.9
at Wilkins Slough		40.1	41.3	42.4	43.5	44.5	45.5	47.3	49.1
at Colusa		70.5	70.9	71.4	71.9	72.3	72.8	73.5	74.3
at Butte City	127.0	127.5	127.9	128.3	128.7	129.1	129.4	130.0	130.6
at Hamilton City	0.9	1.4	1.8	2.3	2.6	3.0	3.3	4.0	4.6
near Red Bluff									
	200 cfs	500 cfs	1000 cfs	2000 cfs	3000 cfs	4000 cfs	5000 cfs	6000 cfs	7000 cfs
Feather River									
near Oroville				7.9	9.6	11.3	12.9	14.4	15.8
at Nicolaus				23.3	24.2	25.1	25.9	26.6	27.3
American River									
at Fair Oaks		1.5	2.2	3.1	3.9	4.5	5.0	5.5	6.0
San Joaquin River									
near Vernalis				8.5	9.7	10.8	11.7	12.6	13.4
at Hetch Hetchy Crossing				21.8	23.4	24.6	25.6	26.6	27.4
at Orayson		27.6	29.3	32.3	34.9	37.1	38.7	39.7	40.2
near Newman		3.0	4.3	6.1	7.5	8.7	9.7	10.7	11.6
at Fremont Ford	59.2	60.6	62.3	65.0	67.2	68.8			
Merced River									
at Cressey Bridge	1.9	3.2	4.8	7.0	8.8	10.4	11.8	13.0	14.2
Tuolumne River									
at Modesto	41.2	41.6	42.1	42.9	44.0	45.4	46.9	48.3	49.7
Stanislaus River									
at Ripon	38.3	39.8	41.9	45.3	48.2	50.5	52.2	53.3	54.1

TABLE 231

RECORDING TIDE GAGES IN SACRAMENTO-SAN JOAQUIN DELTA AND SUISUN BAY

Name of Station	Operated by*	Location	Date Installed
		Sacramento Delta	
Clarksburg	DWR	Right bank of Sacramento River at American Crystal Sugar Company dock.	1936
Collinsville	DWR	Right bank of Sacramento River on pile dolphin about 0.1 mile upstream from junction of Main Street and river.	June 1929
Isleton	USBR	Left bank of Sacramento River at Shell Oil Company docks at junction of Highway 12 and 24 in Isleton.	April 1949
Rio Vista	DWR	Right bank of Sacramento River at U. S. Engineers depot below Rio Vista; about 1½ miles below Rio Vista Bridge.	April 1908
Snodgrass Slough	DWR	Left bank of Sacramento River about 0.1 mile above Hollister Landing and about ¼ mile above head of Snodgrass Slough (now leveed off).	Aug. 1939
Threemile Slough (Sacramento)	DWR	Pile dolphin about 0.1 mile from Threemile Slough Bridge on Brannon Island side.	April 1929
Walnut Grove	DWR	Left bank of Sacramento River at head of Georgiana Slough; lower end of town of Walnut Grove.	Feb. 1929
		Mokelumne Delta	
Georgiana Slough	DWR	On Andrus Island near junction of Georgiana Slough and Mokelumne River.	June 1929
New Hope	DWR	Right bank of south fork of Mokelumne River just below New Hope Bridge	Aug. 1920
		Yolo By-Pass	
Liberty Island	DWR	Right bank of dredger cut separating Little Holland and Liberty Island. One-half mile north of Yolo-Solano County line.	1930
Lindsay Slough	DWR	South bank of Lindsay Slough ½ mile west of Wright Cut. At Montezume Ranch headquarters of California Packing Corporation.	Jan. 1942
Lisbon	DWR	Left bank of Yolo By-Pass below north end of Sacramento Northern Railroad trestle.	1920
		San Joaquin Delta	
Antioch	DWR	On wharf of Antioch Water Works.	June 1929
Brandts Bridge	DWR	Right bank of San Joaquin River at Brandts Bridge between Roberts Island and Reclamation District 17.	July 1940
Burns Cut-Off	USBR	On Stockton Ship Channel at East Bay Municipal Utility District crossing; northwest corner of Rough and Ready Island.	May 1940
Delta Cross Channel	USBR	Left bank approximately 1000 feet below head near Walnut Grove.	Sept. 1952
Grant Line Canal	USBR	Right bank of Grant Line Canal at Tracy Road crossing	Oct. 1940
Middle River at Bacon Island	USBR	Most northeasterly point of Bacon Island at Junction of Middle River and Connection Slough.	Oct. 1948
Middle River (Borden)	DWR	Left bank of Middle River just below Borden Highway Bridge on Victoria Island.	July 1939
Middle River (Mowry Bridge)	USBR	Right bank Middle River at Undine Road crossing on upper Roberts Island.	July 1948
Mossdale Bridge	DWR	Right bank of San Joaquin River just below U. S. 40 highway crossing.	1920
Old River at Clifton Court Ferry	DWR	Left bank approximately 2000 feet downstream from junction with Grant Line Canal.	Dec. 1948
Old River at Holland Tract	USBR	Left bank about 1½ miles south of northeast corner of Holland Tract.	Sept. 1951
Old River at Mansion House	DWR	Right bank on timber dolphin at Mansion House on Victoria Island.	Aug. 1939
Old River near Rock Slough	DWR	Left bank of Old River 1½ miles north of junction with Rock Slough on American Island.	Mar. 1945
Old River near Tracy Road Bridge	DWR	Left bank at Galli's Pump, Mile 53.0. About 1000 feet upstream from Tracy Road Bridge.	Mar. 1952
Rindge	DWR	At southeast corner of Rindge Tract on Fourteenmile Slough at junction with Ship Channel.	July 1939
Rock Slough	USBR	On Contra Costa Canal intake approximately 1½ miles northeast of Knightsen. (No record: February to December 1946).	Oct. 1944
San Andreas Landing	USBR	On right bank of San Joaquin River approximately 1¼ miles downstream from junction of Mokelumne River.	May 1952
Stockton	DWR	At head of McLeod Lake on Center Street.	Dec. 1927
Tom Paine Slough	DWR	At mile 2.2 above mouth (0.1 mile east of mouth of Sugar Cut).	June 1951
Threemile Slough (San Joaquin)	DWR	On Sherman Island at Reclamation District 341 drainage plant on pile dolphin. Near junction of Slough with San Joaquin River.	June 1929
Venice Island	DWR	At Blakes Landing on Stockton Ship Channel near Venice Island headquarters.	Jan. 1928
		Suisun Bay	
Benicia	DWR	North side of Suisun Bay. On Benicia Arsenal wharf.	♂ April 1940

* DWR - Department of Water Resources; USBR - United States Bureau of Reclamation.
♂ Gage originally installed June 1929 and operated until October 1931 by Department of Water Resources. In interim 1931 to April 1940 recorders were operated here at intervals by U. S. Engineers and U. S. Coast and Geodetic Survey.

TABLE 232

DESCRIPTION OF ACTIVE SALINITY OBSERVATION STATIONS - 1956

Station	Miles from Golden Gate (a)	Time Interval (b) Hours	Time Interval (b) Mins.	Location
				SAN FRANCISCO, SAN PABLO, AND SUISUN BAYS
Point Orient	12.3	2	20	North end of San Francisco Bay, east shore, one-half mile south of Point San Pablo Wharf of Standard Oil Company.
Point Pinole	19.0	2	50	South shore of San Pablo Bay, at Point Pinole on wharf of Atlas Powder Company.
Point Davis	25.2	3	15	East end San Pablo Bay, south shore, Oleum Wharf of Union Oil Company.
Grand View	25.2	3	15	Northwest shore of San Pablo Bay at mouth of Petaluma Creek.
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.
Inniafail 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.
O & A Ferry	46.5	4	40	Upper end Suisun Bay between Mallard Station and Chipps Island at Sacramento Northern Railroad Ferry 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.
Millara Harbor	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.
Webb Ferry	68.0	6	40	False River at junction with Fisherman's Cut.
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 (Durham Ferry Bridge)	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. Samples taken by local observers approximately one and one-half hours after high high tide.

TABLE 233

MAXIMUM RECORDED SALINITY AT BAY AND DELTA STATIONS

(Releases of stored water from Shasta Lake commenced in 1944.)

YEAR	1931	1934	1938	1939	1944	1947	1951	1952	1953	1954	1955	1956
Sacramento-San Joaquin Runoff in per cent of average (a)	33	47	184	48	61	59	131	164	104	92	62	171
Station (b)	Maximum recorded salinity in parts of chloride per million											
						San Pablo Bay						
Point Orient	18700	18400	17000	19200	17300	18800	17700	16700	16900	19320	20000	18300
Point Pinole						16800	15500	14200	13300	15600	19000	16200
Point Davis	18100	18000	*14600	18400	15200	16500	14600	12700	14400	15800	12900	13800
Grand View	18700				15300	18000	15900	12100	14000	15500	16700	16400
Crockett						17900	15100	13200	14680	16000	16600	15300
						Carquinez Strait						
Benicia					13900	15100	12200	10400	12020	14000	15100	12300
Martinez	16900	16400	11600	16400		13400	10100	8900	10500	11800	11900	11900
						Suisun Bay						
West Suisun						13500	10800	7900	9940	12800	12600	11200
Port Chicago						12400	8700	6900	8940	10900	12500	9750
Innisfail Ferry	14000	12600	3300	13600	7900	8200	4400	4200	6430	6900	5780	5200
O & A Ferry	13900	12000	2560	11800	7300	6100	4400	2800	3640	5670	6400	4040
Pittsburg						5000	2400	1200	1830	4580	7800	3440
						Sacramento River Delta						
Collinsville	12600	10800	860	10400	4700	4500	1750	783	2200	4520	3880	2280
Emmaton									(c)	1380	1080	158
Threemile Slough Bridge	8600	6600		5900	1610	1250	600	175	155	818	635	56
Rio Vista Bridge	7400	5200		4050	550	270	70	175	33	126	158	21
Isleton Bridge	6350	3100		2500	50	50	60	125	29	28	23	17
						San Joaquin River Delta						
Antioch	12400	9600	510	9200	4000	4700	970	354	1440	3430	3320	1270
Millers Harbor						3000	(c)	(c)	360	1970	2360	160
Jersey Island									490	1480	1130	152
Threemile Slough									49	960	428	82
Oulton Point									65	395	376	105
San Andreas Landing									61	123	98	66
Opposite Central Landing	4250	*1250	100	1380	200	200	80	250	44	75	36	96
Dutch Slough	5100	2800	110	2250	690	840	170	88	114	688	454	107
Webb Ferry									160	652	331	79
East Contra Costa I. D.		730		320	140	190	190	152	167	200	196	173
Clifton Court Ferry	1300	400		190		160	120	112	122	160	146	146
Mossdale Bridge	120	250	120	160	130	180	190	122	194	209	224	206
Vernalis						*180	220	121	205	198	231	202

* Estimated.
a Average taken as mean annual unimpaired flow at foothill stations of major tributaries for 50-year period October 1905 through September 1955.
b For location see Plate 4.
c Record incomplete.

TABLE 234

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

Samples taken by local observers approximately one and one-half hours after high high tide
parts per million

Station	October 1955							
	2	6	10	14	18	22	26	30
				San Francisco, San Pablo, and Suisun Bays				
Point Orient	18300		17800	18200		17100	16900	18000
Point Pinole			(a)16200				14800	
Point Davis								
Grand View	15300	16300	16400	15200	15100	15500	15400	14700
Crockett	(b)15300	13900	(b)13900	13400	14000	12400	13900	14100
Benicia	11800	11300	11500	12300	11700	10300		12400
Martinez	10000	(a)7940	(a)9250	9900	(a)9000	(a)8250	9200	10800
West Suisun	9800	8500	8750		9300	8760		11200
Innisfail Ferry				5080	5040	(a)5200	(ab)5140	(a)5080
Port Chicago	7630	8800	9130	9050	8200	6350	8180	9750
O & A Ferry	3160	3100	2480	3420	3890	2400	3000	4040
Pittsburg	3440	1170	(ab)1180	(b)2470	1850		(b)735	(b)1370
				Sacramento River Delta				
Collinsville	1820	(a)960	2280		(a)1210	(a)1220		2065
Emmaton	(a)62	(a)63	69	68	(a)64		52	
Threemile Slough-SR	56		(b)50	53	41	33	23	27
Rio Vista Bridge	21	21	(b)15	17	13	14	12	12
Isleton Bridge	15	17	(b)12	13	8	11	10	12
				San Joaquin River Delta				
Antioch	970	1100	780	1090	990	690	662	905
Millers Harbor	160	(a)160	(a)159	127	147	128	80	64
Jersey Island				152				
Threemile Slough-SJR		(a)38	(a)53	82	(a)57		31	(a)34
Oulton Point	55	(a)34	(a)38	47	(a)32	(a)25		24
San Andreas Landing	29	(a)29	(a)23	22	*22	(a*)20	21	14
Opposite Central Landing	17	(a)14	(a)11	14	(a)11	(a)10	13	12
Dutch Slough	107	(a)91	(a)82	76	77	61	52	51
Webb Ferry	79	(a)76	47	(e)45	(a)43	(a)43	33	31
East Contra Costa I. D.	(a)141	(a)132	(b)130	(a)112	(a)117	131	173	(a)80
Clifton Court Ferry				(a)67	(a)73			(a)122
Moasdale Bridge	(a)187	(a)187	(a)181	(a)168	(a)143	(a)133	149	(a)158
Vernalis (g)	(c)188	(e)176	(b)169	184	140	(e)131	(e)191	
	November 1955							
				San Francisco, San Pablo, and Suisun Bays				
Point Orient	17900	16900	18200	*18000		16500	16700	15900
Point Pinole	15300		15000					
Point Davis								
Grand View	14700	14900	15000	14500	15000	14600	14500	14000
Crockett	14200	11400	(b)14000	13500	12700	(a)9350	11700	13000
Benicia	10800	9200	11900	10900	8700	8720	10100	9370
Martinez	11900	(a)6900	11400	11700	10500	8360		7900
West Suisun			8900			(a)5080	6560	
Innisfail Ferry	5020	4860	4700	4650	5020	4800	(ab)4930	3510
Port Chicago	9150	7280	8330	8220	6260	6150	6570	1500
O & A Ferry	3290	2620	2860	3630	2440	1900	1590	2270
Pittsburg	3190	(ab)1080	1210	1830	1190			430
				Sacramento River Delta				
Collinsville	(a)1150	1350	1390	1880	915	396		992
Emmaton	(a)37			158	113	28		(a)26
Threemile Slough-SR	37	26	24	32	27	15	11	
Rio Vista Bridge	15	11	12	12	12	13	9	10
Isleton Bridge	9	10	13	10	9	9	8	13
				San Joaquin River Delta				
Antioch	1220	615	840	1270	784	312	144	388
Millers Harbor	96	88	61		(a)77	(c)55	32	33
Jersey Island								
Threemile Slough-SJR		(a)26	28	33	(a)25	23	18	(a)17
Oulton Point	(a)25	(a)23	32	32	(a)20		19	(a)22
San Andreas Landing	22	(a)22	16	31	(a)22	23	17	22
Opposite Central Landing	(a)11	(a)11	11	12	(a)10	15	8	(a)7
Dutch Slough	(a)49	(a)43	42	43	(a)44	40	41	(a)39
Webb Ferry	30	29	(c)29	32	(a)28	(b)27		(e)22
East Contra Costa I.D.	(a)8[illegible]	(a)84	(b)84	(a)91	(a)104	120	132	130
Clifton Court Ferry				(a)146				
Moasdale Bridge	(a)173	(a)122	(a)161	206	(a)163	(e)134	120	(a)125
Vernalis (g)		(c)129	(c)202		136		121	(e)120

(*) Presumed.
(a) Taken on 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 234

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

Samples taken by local observers approximately one and one-half hours after high high tide
parts per million

Station	December 1955							
	2	6	10	14	18	22	26	30
				San Francisco, San Pablo, and Suisun Bays				
Point Orient	15800		16900	15100	16100	13400	2510	4630
Point Pinole		13900		13200				
Point Davis								
Grand View	14200	13700	12700	12800	11400	3230	2150	1110
Crockett	12600	12800	9760	(b)9750	10100	1990	82	24
Benicia	9300	10700	8700	6650	6100	4500	(a)50	29
Martinez	(a)6300	9550	7630	6400	8460	(e)2730	23	30
West Suisun	8300			4000	4600	2260	50	150
Innisfail Ferry	3620	3400		1910		(a)2920	283	295
Port Chicago	7130	7600	2190	4430	6450	1570	26	21
O & A Ferry	2050	1760	310	476	321	30	6	14
Pittsburg	874		560	(b)111		58		
				Sacramento River Delta				
Collinsville	(a)308	607	54	(a)37		21		8
Emmaton			11			4	2	(a)3
Threemile Slough-SR	13	14	7	7	10	3	3	2
Rio Vista Bridge	10	(a)12	6	8	11	lost	6	7
Isleton Bridge	10	10	4	11	12	5	4	3
				San Joaquin River Delta				
Antioch	454	300	104	73	102	66		19
Millers Harbor	38	31	31	29	30	(a)33	40	(b)29
Jersey Island								
Threemile Slough-SJR		20	19			14		
Oulton Point	(a)20	26	20	(a)20		17		
San Andreas Landing	20	21	20	24	(a)24	6		
Opposite Central Landing	(a)10	10	8	(a)9	(a)15	7	2	(a)4
Dutch Slough	(a)40	40	44	(a)53	36	53	91	(a)30
Webb Ferry	20	(d)23	23	22	(d)26	(d)27		
East Contra Costa I.D.	134	(b)146	151	(ab)173	(a)173	162	(b)42	(a)23
Clifton Court Ferry								
Mossdale Bridge	120	113	(a)82	(a)79	(a)86	(a)69	(a)4	(a)10
Vernalis (g)	125	105		(e)77	(c)87			
	January 1956							
				San Francisco, San Pablo, and Suisun Bays				
Point Orient	4960	6160	8060		4060	4880	(a)6140	4460
Point Pinole		1270	3100				(a)3800	
Point Davis	*57	(b)1020	2010	955	54	209	765	27
Grand View	683	682	801	827	259	402	890	607
Crockett	19	1130	1530		(a)36	170	546	
Benicia	20	(a)141	155	73	28	43	28	19
Martinez	(a)49	24	66	34	24	26	19	37
West Suisun	40		55	99	16	33		50
Innisfail Ferry	(a)35	39		343	139	130	16	*9
Port Chicago	26	24	21	20	(a)25	23	23	29
O & A Ferry	8	10	11	10	6	17	9	*13
Pittsburg			29	20	(b)14	15	16	(a)28
				Sacramento River Delta				
Collinsville	10	11	11	9	5	7	10	8
Emmaton	(a)11	(a)3	11	4	2		5	
Threemile Slough-SR		2	3	3	2	6	2	3
Rio Vista Bridge	7	10	12	7	3	(a)5	8	7
Isleton Bridge	3	5	3	3	1	2	2	2
				San Joaquin River Delta				
Antioch	20	19	20	19	21	23	25	26
Millers Harbor	36	31	31	30	39	40	39	40
Jersey Island								
Threemile Slough-SJR		2			8	17	18	(a)20
Oulton Point					14	16		17
San Andreas Landing	14	5	10	15	4	10	13	(a)16
Opposite Central Landing	9	6	6		3	8	4	8
Dutch Slough	(a)30	38	39	45	41	48	43	45
Webb Ferry	(c)15	(c)21			19		(f)20	(f)21
East Contra Costa I.D.	(b)43	45	(a)36	(a)60	63	62	66	47
Clifton Court Ferry								22
Mossdale Bridge	14	11	(a)11	(a)13	14	7	13	13
Vernalis (g)								

(*) Presumed.
(a) Taken on 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 234

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

Samples taken by local observers approximately one and one-half hours after high high tide
parts per million

Station	February 1956							
	2	6	10	14	18	22	26	30
				San Francisco, San Pablo, and Suisun Bays				
Point Orient	5700	7460				9860	7330	
Point Pinole		1600		6230		4430		
Point Davis	531	2280	2690	2300	3950		470	
Grand View	542		770	990	3270	942	2630	
Crockett	486	1180	705	3020	4070		168	
Benicia	(a)20	58	1700	274	2820	2880	30	
Martinez	30	151	341	560	908	1890	29	
West Suisun	25				144	2070	55	
Inniafail Ferry	176	259	376	420	454	269	397	
Port Chicago	24	19	26	25	260	224	19	
O.& A Ferry	*14		15	17	18	23	12	
Pittsburg	26		25	24	25	25	12	
				Sacramento River Delta				
Collinsville	12	18	23	(a)15	19	15	7	
Emmaton		15	16	(a)9		10		
Threemile Slough-SR	4	7	7	14	13	12	4	
Rio Vista Bridge	9	6	10	8	14	11	5	
Isleton Bridge	3	6	5	7	6	4	2	
				San Joaquin River Delta				
Antioch	27	23	23	25	29	27	24	
Millers Harbor	41	47	(b)34	(ab)35	38	36	37	
Jersey Island								
Threemile Slough-SJR	19	20	19	(a)19		19	21	
Oulton Point	23	19	23	(a)22	25	23	(a)25	
San Andreas Landing	5	15	(a)11	(a)19	23	22	18	
Opposite Central Landing	9	8	7	(a) 7	8	11	6	
Dutch Slough	42	36	(a)41	(a)40	39	50	41	
Webb Ferry	25	(d)27	(e)24	22	28	30	(b)25	
East Contra Costa I.D.								
Clifton Court Ferry								
Mossdale Bridge								
Vernalis (g)								

Station	March 1956							
				San Francisco, San Pablo, and Suisun Bays				
Point Orient	5930	8760	9870	12000	12000	12100	12700	11700
Point Pinole						8070		
Point Davis	990	1460	2730	6120	4300	5900	6020	5020
Grand View	2250	(b)2120	2860	3770		4790	6700	
Crockett	998	315	2370	5320	3960		4730	3960
Benicia	138	64	1760	2600	2710	3020	2450	3390
Martinez	31	64	2400	(a)772	(a)1458	1150	(a)85	1160
West Suisun	36	48	57	52	823	976	72	222
Inniafail Ferry	(a)112		205		300	331	(a)309	314
Port Chicago	21	17	21	58	147	210	56	389
O & A Ferry	8	13	15	14	16	14	12	12
Pittsburg	20		(b)20	(a)24	17	(b)21	(ab)18	16
				Sacramento River Delta				
Collinsville	9	9	16		15	12	(a) 9	12
Emmaton	7	6			14		9	
Threemile Slough-SR	5	6	8	9	8	6	10	6
Rio Vista Bridge	8	9	7	11	10	7	7	7
Isleton Bridge	4	4	4	5	4	8	3	3
				San Joaquin River Delta				
Antioch	25	28		24	20	23	(a)23	(a)22
Millers Harbor	32	38	36	34	29	28	30	28
Jersey Island								
Threemile Slough-SJR	10	53		(a)16		15	(a)15	16
Oulton Point	21	21	18	19	19	24	(a)17	15
San Andreas Landing	21	8	20	(a)19	20	6	(a)16	17
Opposite Central Landing	5	7	8	(a) 8	6	7	(a) 5	5
Dutch Slough	47	48	43	Lost	39	37	36	39
Webb Ferry	26	25	30	29	22	22	(a)27	(e)25
East Contra Costa I. D.	58	(b)62	54	65	61	51	80	104
Clifton Court Ferry							74	112
Mossdale Bridge	23	30	(a)30	41	70	65	110	86
Vernalis (g)								

(*) Presumed
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(f) Taken two days earlier.
(g) Station located above tidal action.

TABLE 234

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

Samples taken by local observers approximately one and one-half hours after high high tide
parts per million

Station	April 1956							
	2	6	10	14	18	22	26	30
				San Francisco, San Pablo, and Suisun Bays				
Point Orient	11600	(e)9630	13900	13500	12600	(e)13700	12600	(a)12600
Point Pinole		(a)7650	(a)11000					
Point Davis	3430	(e)8320	9880	7250	5200	8000	6300	4700
Grand View	6960	(e)7100	6440	6430	6550	6800		7650
Crockett	2610	(d)5180	8500	6900	5920	5700	(a)4400	4120
Benicia	633	4410	5550	4290	2450	4400	4300	1700
Martinez	426	(a)2590	(a) 2700	(a)422	1190	(a)572	(a)518	1030
West Suisun	112		3490	910	593		634	(a*)934
Innisfail Ferry	329	(a)304	(a)275		286		(a)242	(a)284
Port Chicago	18	1970	(e)2730	685	440	920	995	169
O & A Ferry	19	13	15	16	17	16	19	16
Pittsburg	17	(a)16		(b)21	(b)18		(a)26	
				Sacramento River Delta				
Collinsville	14	(a)11	(a)12	11	16		(a)11	
Emmaton	8		(a)11					9
Threemile Slough-SR	6	16	10	10	8	17	9	6
Rio Vista Bridge	7	13	8	6	7	7	5	7
Isleton Bridge	5	5	5	6	5	6	4	4
				San Joaquin River Delta				
Antioch	20	(a)19	(a)20	(a)26	26	(a)30		28
Millers Harbor	27	(a)27	(a)29	29	34	(a)40	(a)38	39
Jersey Island								
Threemile Slough-SJR	17	(a)18	(a)22		28	(a)26		25
Oulton Point	17		25	21	105	(a)32	(b)25	25
San Andreas Landing	20	(a)9	(a)24	23	16	(a)26	28	66
Opposite Central Landing	5	(a)9	(a)8	18	11	(a)9	(a)5	11
Dutch Slough	40	(a)45	(a)44	50	60	(a)59	53	52
Webb Ferry	20	(a)28	(a)25	29	31	32	32	33
East Contra Costa I. D.	102	(a)127	(a)92	107	109	69	56	70
Clifton Court Ferry	78	66	82					
Mossdale Bridge	47	74	66	34	(b)30	37	25	19
Vernalis (g)								
	May 1956							
				San Francisco, San Pablo, and Suisun bays				
Point Orient	7950	(e)10300	12200	10200	9900		10900	7720
Point Pinole								
Point Davis	3860	6600	5070	4180	7060	5680	*3540	3190
Grand View	7300		6450	7100	6280	7160	6200	6040
Crockett	(a)4700	5800	(a)1240	2790	(a)4200	4660	3600	2630
Benicia	3690	4900	2490	2210	(b)3510	3580	1020	1800
Martinez	(a)1150	(a)1660	(a)184	2030	(a)727	(a)154	(a)42	(a)486
West Suisun	725	1780	347	44	(b)1020	1060	117	39
Innisfail Ferry	(a)306		(a)188	(a)175	(a)160	(a)139	(a)124	102
Port Chicago	195	265	409	123	(b)35	135	(a)16	11
O & A Ferry	16	20	15	13	11	21	10	9
Pittsburg		(a)29	(a)20	15	(ab)13	(a)14	(ab)12	
				Sacramento River Delta				
Collinsville				13			7	(a)6
Emmaton		(a)8		8		(a)6	9	
Threemile Slough-SR	(b)12	9	8	13	(b)8	7	(d)5	7
Rio Vista Bridge	(b)10	6	5	5	(b)10	9	3	5
Isleton Bridge	(b)7	4	3	4	(b)5	5	7	(b)4
				San Joaquin River Delta				
Antioch	(a)33	(a)28	(a)24	18	(a)13	(a)13	(a)15	(a)17
Millers Harbor	(a)37	(a)35	(a)32	31	(d)18	17		
Jersey Island								
Threemile Slough-SJR	(a)27		(a)16		(a)11	(a)12	(a)12	(a)10
Oulton Point	(a)26				(a)14		13	(a)11
San Andreas Landing	(a)13	(a)21	17	14	(a)6	(a)12	13	(a)7
Opposite Central Landing	(a)6	(a)5	(a)4	7	(a)5	(a)5	8	(a)4
Dutch Slough	(a)5	(a)41	35	25	(a)19	(a)20	23	(a)19
Webb Ferry	(a)26	(a)25	24	24	(ad)14	(a)13	17	(a)17
East Contra Costa I. D.	(a)50	(a)47	24	22	(ab)25	(ab)25	18	(a)14
Clifton Court Ferry	(a)21	14	10			18		(a)12
Mossdale Bridge	(a)22	12	13	16	(a)19	13	12	(a)23
Vernalis (g)								

(*) Presumed.
(a) Taken on Low High Tide.
(b) Taken on following day.
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(f) Taken two days earlier.
(g) Station located above tidal action.

TABLE 234

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

Samples taken by local obaervers approximately one and one-half hours after high high tide
parts per million

Station	2	6	10	14	18	22	26	30
	June 1956							
				San Francisco, San Pablo, and Suisun Bays				
Point Orient	10700				(e)11600	14000	13600	13300
Point Pinole	(a)6400							
Point Davis	*4450	3690	5560	6230	(e)6670		(a)6640	
Grand View	5560	6850	7110	7600	(e)8520	8050	(a)8000	7800
Crockett	3740	4330	5090	5730	(e)5710	(a)5520	5800	
Benicia	2940	(b)3110	4620	2560	4900	5940	5120	5850
Martinez	840	(a)84	(a)94	(a)1130	(a)1440	(a)539	(a)2130	(a)3750
West Suisun	1190	438	800	864	2140	2340	1280	
Innisfail Ferry			(a)83		72		(a)132	103
Port Chicago	(b)1060	707	800	374	1790	1780	1240	4330
O & A Ferry	(b)16	11	12	11	12	17	19	47
Pittsburg	(a)12	(ab)11	(a)14	(a)11	(ab)13	(a)14	(b)24	
				Sacramento River Delta				
Collinsville	(a)7	(ae)6	9	(a)10	(a)36		12	(a)15
Emmaton			7	(a)7			(a)9	
Threemile Slough-SR	(b)6	9	(a)9	8	7	8	9	7
Rio Vista Bridge	(b)9	6	7	(b)6	6	8	8	(a)12
Isleton Bridge	(b)5	10	4	(b)9	7	8	7	(b)7
				San Joaquin River Delta				
Antioch	(a)16	(a)11	(a)11	(a)13	(a)12	(a)14	15	(a)15
Millers Harbor		(a)15	14		(a)14	(a)18		(a)14
Jersey Island							(a)14	
Threemile Slough-SJR		(a)9	(a)9	(a)9	(a)12	(a)10	(a)14	
Oulton Point		(a)10						
San Andreas Landing	(a)7	(a)9	9	(a)10	(a)12	(a)12	16	(a)13
Opposite Central Landing		(a)5	7	(a)7	(a)9	7	11	(a)12
Dutch Slough	(a)13	(a)14	14	(a)17	(a)16	(e)16	19	(a)19
Webb Ferry	(a)12	(d)14	9	10	(a)15	(a)11	12	(a)10
East Contra Costa I. D.	(ab)27	12	14	(a)19	(a)22	22	20	(a)24
Clifton Court Ferry		11		(a)14	17	22		(a)18
Mossdale Bridge	(a)9	8	9	(a)16	18	12	22	
Vernalis (g)						(ad)14	(ac)28	
	July 1956							
				San Francisco, San Pablo, and Suisun Bays				
Point Orient					(e)14400	(e)15000	14500	11200
Point Pinole								
Point Davis	8000	(e)9900	10200	11000		12600	10900	13200
Grand View	7700	(e)7850	9230	10200	(e)10200		10300	11200
Crockett	5730	(d)9640	10000		(e)12200	10400	10700	11600
Benicia		(e)4730	5560	*4900	(e)5790	7900	6600	6070
Martinez	(a)2000	(a)4390	7700	(a)3650	(a)3840	(a)3840	6720	(a)4740
West Suisun	3290	5040	3450	4680		6200	4800	6030
Innisfail Ferry	118	(a)187	(a)507		(e)853	847		
Port Chicago	3070	5020	4020	4140	(e)4940	4760	4840	5660
O & A Ferry	(b)50	327	575	628	(e)405	767	1060	897
Pittsburg				(a)308		(ab)418	(a)612	401
				Sacramento River Delta				
Collinsville	(a)20	(a)12	126		(a)90	(a)174	(a)351	(a)286
Emmaton	(a)10	14	17	11	(a)15	(a)15	(a)16	(a)18
Threemile Slough-SR	9	8	13	(b)16	12	14	15	
Rio Vista Bridge	9	8	10	10	8	12	8	10
Isleton Bridge	6	8	8	7	8	12	5	9
				San Joaquin River Delta				
Antioch	(a)15	(a)22	(a)65	(a)61	(a)69	(a)141	(a) 200	675
Millers Harbor	(a)16	(a)16	19	24	(a)31	(a)49	64	82
Jersey Island							93	
Threemile Slough-SJR	(a)16	(a)11	(a)14	17	(a)15	(a)21	(a)21	(a)26
Oulton Point		20	(b)19	(a)18	(a)19	(a)18	(a)21	(ad)20
San Andreas Landing	(a)16	(a)16	(a)14	(a)15	(a)15	(a)20	(a)18	
Opposite Central Landing	(a)8		(a)12	(a)11	(a)11	(a)11	(a)96	(a)12
Dutch Slough	(a)21	(a)21	22	(a)21	(a)26	(a)30	38	(a)52
Webb Ferry	(a)14	(a)14	17	(a)15	(a)16	(a)15	36	(a)36
East Contra Costa I. D.	(a)33	46	30	(ab)51	(a)35	32	26	(a)34
Clifton Court Ferry			32				25	(a)40
Mossdale Bridge	(a)25	61	73	(a)81	114	(a)147	137	(a)31
Vernalis (g)		62	(e)70	(c)79	(c)111			

(*) Presumed.
(a) Taken on Low High Tide.
(b) Taken on following day.
(c) Taken two days later.
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(f) Taken two days earlier.
(g) Station located above tidal action.

TABLE 234

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

Samples taken by local observers approximately one and one-half hours after high high tide
parts per million

Station	August 1956							
	2	6	10	14	18	22	26	30
				San Francisco, San Pablo, and Suisun Bays				
Point Orient	16300	(e)16100	16400		(e)16200	15300	16600	15900
Point Pinole			14300	(a)14500		13300		
Point Davis	13300	(b)11700	13300	12800	(e)10400	12200	12200	13600
Grand View	10700	11200	11300	11600	(e)11800	12200	11900	12700
Crockett	*10900	11900		11000	(e)10400	11300		12200
Benicia	6500	7720	6600	7860	(e) 7250	6450	7290	8900
Martinez	(a)4540	(a)4360	6900	(a)6620	(a)5340	6710	6490	(a)5900
West Suisun	6700		7000	7580	(e)7280	5930	6990	7800
Innisfail Ferry	(a)1230	(a)1770	2110	2540	(a)2290		2710	2750
Port Chicago	6430	6560	5800	5880		5620	5820	7000
O & A Ferry	893	1030	1330	1170	1890	1240	1670	1530
Pittsburg	(a)242	(ab)825	472	(ae)498	(a)955	(a)812	793	930
				Sacramento River Delta				
Collinsville	(a)270	(a)184		(a)542	(a)380		(a)302	
Emmaton	(ab)33	(a)27	25	23	25	(a)29	29	
Threemile Slough-SR	(b)16	20	22	26	25	24	27	31
Rio Vista Bridge	(b)7	7	9	9	13	9	12	12
Isleton Bridge	(b)8	7	10	10	10	13	8	11
				San Joaquin River Delta				
Antioch	(a)194	(a)237	350	(a)256	(a)287	(a)322	424	(a)213
Millers Harbor	(a)78	(ad)82	95	(e)107	(a)121	137	141	157
Jersey Island								
Threemile Slough-SJR	(a)32	24	(a)31	(a)42	(a)43			(a)64
Oulton Point	(a)30	(a)25	(a)36	(a)30	(a)34	(a)39	(a)41	(a)39
San Andreas Landing	(a)20	(a)19	18	(a)24	(a)24	(a)26	31	(a)32
Opposite Central Landing	(a)11	(a)11	(a)13	(a)14	(a)13	(a)17	(a)14	(a)19
Dutch Slough	(a)47	(a)44	(a)43	(a)56	(a)64	(a)70	71	(a)94
Webb Ferry	(a)30	(a)30	(a)45	(a)45	(a)32	33	(a)58	(a)56
East Contra Costa I. D.	(b)33	34	(a)34	(a)48	(a)44	55	(a)51	(a)55
Clifton Court Ferry			(a)18					
Mossdale Bridge	(a)71	62	(a)79	(a)122	128	111	(a)113	(a)114
Vernalis (g)	(b)69	(b)75	65			(e)106	(f)114	
	September 1956							
				San Francisco, San Pablo, and Suisun Bays				
Point Orient	(e)16600	16600		14800	14900	15000	14900	(e)15600
Point Pinole								
Point Davis		13800				10200		(e)11700
Grand View	(e)13500	12300	12500	13200	13200	Lost	13400	(e)12900
Crockett	(e)12600	12800	10800	10000	10700	8940	*9440	(e)9800
Benicia	(e)8830	6820	5750	7400	5900	4900	6050	(e)4450
Martinez	(a)5080	(d)6100	5600	(a)5000	5030	5400	5680	(a)4630
West Suisun	(e)6850	7710	6530	6200		4300		(e)4480
Innisfail Ferry	(a)2580	2780	2860		2460		2040	(a)1790
Port Chicago		4880	5070	4500	4070	3400	4120	(e)4800
O & A Ferry	970	1160	1090	422	407	248	418	(e)132
Pittsburg	(ab)680	848		390	(b)428	167		
				Sacramento River Delta				
Collinsville	(a)410		(a)278	135	86	38	(a)33	(a)108
Emmaton		39	(a) 33	(a)22	15		*15	
Threemile Slough-SR	34	41	31	(b)16	17	15	14	14
Rio Vista Bridge	10	11	12	(b)14	10	11	9	13
Isleton Bridge	10	13	11	(a)10	11	14	10	10
				San Joaquin River Delta				
Antioch	(a)258	354	204		122	115	106	(a)93
Millers Harbor	134	122	99	(b)56	55	(b)42	47	35
Jersey Island								
Threemile Slough-SJR	(a)50	58	36	(a)24	(d)25		25	
Oulton Point	(a)45	36		(a)22	27	25		
San Andreas Landing	(a)30	31	25	(a)26	23	29	(a)23	(a)23
Opposite Central Landing	(a)16	17	(a)12	(a)14			(a)16	(a)14
Dutch Slough	(a)96	(a)84	(a)76	(a)59	54	49	(a)41	(a)37
Webb Ferry	(a)57	(a)57	(a)48	(a)47	(a)30	(a)31	(a)26	
East Contra Costa I. D.	51	48	(a)57	(a)63	(ab)67	(a)89	(a)75	(b)72
Clifton Court Ferry								
Mossdale Bridge	125	(a)114	(a)93	(a)95	(a)80	(a)88	(a)83	(a)92
Vernalis (g)	(c)117	(c)88	(c)99	(b)88		(e)86	(e)81	*86

(*) Presumed.
(a) Taken on 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 235

COMPLETE OR PARTIAL ANALYSES OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1956

Date	Time	G. H. Feet	Flow c.f.s.	Temp. °F	Kx10^6	pH	Parts per Million Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	B	Total Solids	% Na
AMERICAN RIVER BELOW NIMBUS DAM T9N, R6E, Sec. 13																		
1/10	1000			47	56	7.2	5.2	2.4	0.9	0.0	0.0	2.3	3.4	2.1	0.01		36	8.0
4/20	1100			54	66	7.2	6.0	2.1	1.8	0.4	0.0	25	4.8	3.9	0.0		42	14
7/9	1100			58	102	8.0	14	1.2	1.4	0.8	0.0	50	2.4	1.4	0.0		70	6.8
10/5	1100			71	64	6.3	6.2	1.8	2.1	0.0	0.0	22	3.4	3.9	0.0		54	16
SACRAMENTO RIVER AT GREENS LANDING T6N, R4E, Sec. 22F																		
2/1	1330			43	103	6.5	10	4.1	4.4	1.6	0.0	43	6.7	5.7	0.0		84	17
3/1	1250			50	180	8.3	16	8.3	8.5	1.6	0.0	76	25	3.9	0.0		152	20
3/29	1405			53	113	6.9	9.0	5.1	4.1	0.0	0.0	66	10	4.3	0.0		100	17
5/2	1255			60	125	7.1	11	5.1	6.7	1.2	0.0	52	7.2	8.2	0.0		100	22
5/29	1125			60	83	7.4	9.4	2.9	3.4	1.6	0.0	40	3.8	5.7	0.0		66	17
6/26	1110			68	141	7.0	13	4.1	8.5	0.0	0.0	56	5.8	11	0.6		136	28
7/25	1115			--	146	7.3	12	5.6	10	0.0	0.0	71	6.7	11	0.6		118	29
8/28	1145			69	198	7.1	13	7.1	13	1.6	0.0	76	13	13	0.0		122	30
9/26	1230			66	181	7.8	16	6.1	13	1.2	0.0	95	7.2	9.2	0.0		136	30
11/9	1150			57	130	7.6	12	4.9	7.8	2.7	0.0	60	7.2	5.7	0.0		96	24
11/29	1250			51	144	7.1	13	3.5	8.3	1.2	0.0	63	5.8	6.4	0.0		94	27
12/26	1130			--	163	7.8	14	5.4	9.9	0.4	0.0	70	8.6	8.2	0.0		122	27
SACRAMENTO RIVER AT TOLAND LANDING T3N, R2E, Sec. 21																		
2/1	1140			43	194												138	
3/1	1035			48	105												106	
3/28	1340			54	199												136	
5/2	1025			58	137												116	
5/29	1320			62	111												80	
6/26	1220			68	142												112	
7/25	1300				186												108	
8/28	1015			68	284												156	
9/26	1330			68	219												148	
SACRAMENTO RIVER AT MALLARD SLOUGH T2N, R1W, Sec. 1																		
1/30	1130			48	221				17					24			144	33
2/27	1125			50	211				14					23			164	29
3/26	1200			56	211				16					18			154	33
5/1	1145			62	189				13					23			120	30
5/28	1200			65	140				10					13			104	32
6/25	1120			70	191				13					18			120	30
7/25	1400			71	1630												960	
8/29	1150			68	5691				853					1605			3376	65
9/27	1345			71	1191				160					267			660	58
10/29	1050			59	3001				407					319			1656	59
CARQUINEZ STRAITS AT MARTINEZ T2N, R3W, Sec. 13																		
1/30	1030			47	340												216	
2/27	1015			48	272												180	
3/26	1315			54	645												382	
5/1	1230			60	2567												1540	
5/28	1300			64	253												160	
6/25	1235			68	1235												712	
7/25	1300			69	12080												8280	
8/29	1040			67	23111												16736	
9/27	1103			67	12887												9040	
10/29	1145			59	27255												19920	
12/4	1200			63	20820				3680								7100	
12/26	1335			--	21626												15496	
PUTAH CREEK NEAR WINTERS T8N, R2W, Sec. 28																		
3/12	0810	8.10	825	49	356				17					49		0.34	348	21
6/22	0830	4.38	33	71	702				26					20		1.06	464	16
CACHE SLOUGH BELOW LINDSAY SLOUGH T5N, R3E, Sec. 31																		
3/1	1150			52	227				12					12			166	23
5/4	1320			62	157				8.5					10			130	24
8/1	1225			70	151				11					16			124	32
10/31	1345			57	165				9.9					8.5			148	26
SAN JOAQUIN RIVER AT HEAD OF TEMPLE SLOUGH T11S, R13E, Sec. 12A																		
1/13							No sample taken - Road impassable due to floods.											
2/16	1010			47	100	7.8	7.2	2.7	8.0	0.0	0.0	31	11	7.8	0.6		90	36
3/15	1025			55	226	6.7	14	4.6	19	1.6	0.0	41	25	24	0.6		162	43
4/12	1140			56	144	7.0	8.6	2.7	13	23	0.0	35	9.1	16	0.0		98	44
5/10	1120			62	160	7.0	12	2.7	15	0.0	0.0	41	12	16	0.0		160	44
6/14	1240			68	81	6.7	6.0	1.6	6.7	0.0	0.0	25	58	5.7	0.6		50	40
7/12	1100			75	341	7.1	21	5.7	32	1.2	0.0	60	30	38	1.2		248	47
8/16	1130			73	330	7.4	19	7.3	31	0.8	0.0	70	28	45	0.0		196	46
9/14	1245			70	502	7.4	27	12	53	2.3	0.0	95	36	80	1.2		294	49
10/16	0838			61	154	7.6	9.0	3.2	10	0.8	0.0	36	7.2	18	0.0		108	38
11/14	0843			49	186	7.9	13	4.0	18	1.6	0.0	44	17	21	0.0		116	44
12/13	1230			52	696	7.7	40	14	75	3.1	0.0	95	132	90	0.6		454	51

Date copied from U.S. Bureau of Reclamation compilation. (Daylight Saving Time in effect April 29, 1956, through September 30, 1956.)

Explanation of abbreviations:

G. H. - Gage height
% sat. - Per cent saturation
Kx10^6 - Conductance micromhos at 25° C
Ca - Calcium
Mg - Magnesium
Na - Sodium
K - Potassium
CO_3 - Carbonate
HCO_3 - Bicarbonate
SO_4 - Sulfate
Cl - Cloride
NO_3 - Nitrate
B - Boron

TABLE 235

COMPLETE OR PARTIAL ANALYSES OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1956 (Continued)

Date	Time	G. H. Feet	Flow c.f.s.	Temp °F	Kx10^6	pH	Parts per Million Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	B	Total Solids	% Na
SAN JOAQUIN RIVER AT WHITEHOUSE T13S, R15E, Sec. 25C																		
3/13	1000	3.25	1280	49	91												54	
3/27	1030	4.10	1980	48	81	6.2	4.4	1.2	3.4	0.0	0.0	22	3.4	4.6	0.0		48	32
4/10	1330	3.62	1570	56	53	6.4	3.4	3.2	3.2	0.0	0.0	20	5.8	3.6	0.6		50	25
4/24	1045	3.66	1510	58	48												42	
5/8	1050	3.42	1370	58	46												42	
5/15	1220	3.57	1760	62	46												42	
5/29	1045	6.84	4570	57	44												42	
6/12	1345	5.95	3670	63	31	6.1	1.6	1.5	1.8	0.0	0.0	13	2.4	2.5	0.0		28	29
6/26	1115	2.28	689	75	44												46	
7/10	1045	1.92	122	70	62												56	
7/24	1150	1.00	84	83	75				6.2					3.9			44	36
8/14	0830	1.41	106	73	58	6.6	4.8	2.6	5.1	1.6	0.0	22	7.2	3.6	0.6		32	31
8/28	0930	1.14	90	73	69				4.6					3.9			50	29
9/11	1300	0.71	68	72	64												46	
9/25	1015	1.98	422	71	39												42	
10/2	1110	2.15	508	68	40	6.7	4.4	0.6	1.2	0.4	0.0	13	1.0	2.1	0.0		22	15
10/16	1115	2.36	700	61	36												26	
10/30	0925	2.36	706	55	33												28	
11/13	0900	2.22	648	56	36												20	
11/27	0845	0.36	73	47	80												64	
12/13	0845	0.76	150	47	102												74	
12/27	1100	1.32	295	42	49												48	
SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE T7S, R9E, Sec. 24G																		
1/12	1500			51	140	7.2	8.8	5.0	11	0.0	0.0	45	9.1	12	0.6		90	36
2/15	1340			52	154	7.7	11	3.7	13	0.0	0.0	48	11	15	0.6		130	39
3/15	1345			58	596	7.0	31	12	61	1.6	0.0	90	58	86	1.9		350	51
4/12	1500	31.52		57	616	7.7	32	15	63	2.7	0.0	110	51	96	1.9		372	50
5/10	1345			66	473	7.4	27	12	49	0.0	0.0	113	34	66	1.2		306	48
6/15	0850			70	174	7.0	12	3.3	16	1.2	0.0	45	14	18	0.6		118	43
7/12	1330			78	774	7.0	38	16	89	1.2	0.0	122	67	134	1.9		508	54
8/16	0820	59.47		72	797	7.7	40	17	91	1.6	0.0	134	65	134	0.0		480	54
9/14	1030			68	638	7.9	34	15	71	2.3	0.0	135	43	97	1.2		374	51
10/16	1045			63	696	7.1	33	16	76	2.0	0.0	125	48	112	0.6		434	52
11/16	1220			53	1723	8.6	68	41	244	4.7	9.3	171	189	366	3.7		1086	60
12/14	0840			49	2119	8.0	87	50	262	3.5	0.0	189	219	440	1.2		1318	57
SAN JOAQUIN RIVER ABOVE SALT SLOUGH T7S, R10E, Sec. 26																		
1/12	1445			51	119	7.2	10	3.7	7.8	0.0	0.0	50	8.2	7.5	0.6		114	30
2/15	1355			53	114	7.6	8.4	3.9	8.7	0.0	0.0	48	4.3	7.5	0.6		104	34
3/15	1330			58	348	6.7	19	8.9	32	1.6	0.0	78	32	40	2.5		228	45
4/12	1440			56	341	7.1	23	9.3	29	2.3	0.0	97	22	40	3.1		254	39
5/10	1330			64	264	7.2	19	7.9	22	0.8	0.0	92	15	24	1.2		188	37
6/15	0915			70	112	6.8	9.4	1.8	9.7	0.4	0.0	37	9.1	8.9	0.6		90	40
7/13				Could not get through														
8/16	0835			73	877	7.6	45	17	101	2.3	0.0	152	55	151	1.9		490	55
9/14	1045			70	450	7.6	28	11	44	2.3	0.0	135	28	52	1.2		274	45
10/16	1025			62	264	7.0	18	6.6	20	2.7	0.0	101	6.7	20	2.5		194	37
11/16	1245			51	601	8.5	33	13	72	3.9	6.6	178	29	77	0.8		358	53
12/14	0905			48	580	7.3	37	15	53	3.1	0.0	164	34	75	5.0		340	43
SAN JOAQUIN RIVER BELOW MERCED RIVER T7S, R9E, Sec. 3G																		
1/12	1420			51	255	7.0	14	6.7	25	2.0	0.0	62	30	28	0.6		192	46
2/15	1315			52	264	7.8	13	6.6	26	0.8	0.0	57	28	31	0.6		192	48
3/15	1415			58	694	7.0	30	17	74	2.7	0.0	93	81	106	2.5		426	52
4/12	1555			59	912	7.6	37	23	105	2.7	0.0	104	109	147	2.5		572	54
5/10	1430			65	407	7.1	20	11	43	0.0	0.0	78	40	59	1.2		254	49
6/15	0815			68	154	7.0	12	2.4	14	1.2	0.0	41	14	15	2.5		106	42
7/13	0825			74	1116	7.0	47	25	132	1.2	0.0	132	131	196	1.9		708	56
8/15	1414			80	1336	7.4	57	31	158	1.6	0.0	157	151	234	2.5		816	56
9/14	1400			72	750	8.1	37	17	83	2.3	0.0	143	69	109	3.1		450	52
10/15	1350			66	960	7.4	38	24	106	2.0	0.0	140	99	155	1.9		586	54
11/16	1320			51	2310	8.6	71	70	304	5.1	11	199	359	440	1.9		1504	58
12/14	0950			50	2713	8.0	96	73	354	5.1	0.0	228	384	536	1.9		1706	58
SAN JOAQUIN RIVER AT HILLS FERRY BRIDGE T7S, R9E, Sec. 3H																		
1/12	1400	13.4		51	235	7.1	13	6.6	24	1.2	0.0	61	28	25	0.6		198	46
2/15	1310	12.7		52	262	7.8	13	6.8	26	0.0	0.0	57	29	30	0.0		190	48
3/15	1420			58	694	7.1	31	17	76	2.7	0.0	94	84	104	1.9		426	52
4/12	1600	4.68		59	807	7.4	33	22	90	2.7	0.0	120	91	132	1.2		584	52
5/10	1440	8.5		65	413	7.2	20	10	43	0.0	0.0	75	40	58	1.2		268	50
6/15	0800			69	148	7.0	10	2.6	13	1.2	0.0	40	12	15	1.2		106	43
7/13	0835	3.50		74	873	7.3	38	20	105	1.2	0.0	122	98	143	2.5		592	56
8/15	1354	2.40		76	1054	7.4	45	25	121	1.6	0.0	140	113	180	1.2		642	55
9/14	1420	2.65		72	669	7.8	33	16	77	2.3	0.0	136	60	98	1.9		398	52
10/15	1330	2.5		65	646	7.2	29	15	72	2.0	0.0	116	54	98	0.8		406	53
11/16	1315	1.72		54	1162	8.4	44	31	141	3.9	5.4	152	153	190	3.1		722	56
12/14	0943	1.49		--	1259	7.9	46	33	150	3.5	0.0	164	148	217	3.1		762	56

Data copied from U.S. Bureau of Reclamation compilation. (Daylight Saving Time in effect April 29, 1956, through September 30, 1956.)

TABLE 235

COMPLETE OR PARTIAL ANALYSES OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1956 (contd.)

Date	Time	G. H. Feet	Flow c.f.s.	Time °F	Kx10^6	pH	Parts per Million Ca	Mg	Na	K	CO_3	HCO_{3w}	SO_4	Cl	NO_3	B	Total Solids	% Na
SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE T6S, R9E, Sec. 7B																		
1/12	1350			50	221				18					27			152	35
2/15	1250	55.6		51	252				24					31			160	41
3/15	1430			58	520				53					80			302	44
4/13	0825	16.40		57	552				60					80			334	47
5/10	1515			66	245				24					33			172	42
6/14	0745	52.4		67	120				11					16			88	40
7/13	0800			73	689				77					111			440	48
8/15	1330	43.2		76	952				115					152			548	53
9/14	0935	43.7		68	593				69					82			400	51
10/15	1300	43.4		66	606				68					92			360	48
11/16	--	42.5		54	1207				139					192			768	50
12/14	1010			53	1205				145					212			792	52
SAN JOAQUIN RIVER AT PATTERSON WATER COMPANY T5S, R8E, Sec. 15M																		
1/12	1325			50	207	6.9	14	5.4	18	2.0	0.0	60	21	22	0.6		156	40
2/15	1220	48.8		52	232	7.9	12	6.0	21	0.0	0.0	59	21	26	1.2		158	45
3/15	1500			58	424	6.8	22	9.9	41	1.6	0.0	70	44	60	1.2		262	48
4/13	0845	41.5		57	581	7.6	29	13	64	2.3	0.0	102	53	86	2.5		348	52
5/11	0830	43.8		63	203	7.0	12	5.1	19	0.0	0.0	48	15	27	0.6		152	44
6/15	1115			67	101	6.9	7.4	1.8	8.7	0.4	0.0	28	7.2	8.5	0.6		74	42
7/13	0930	38.7		73	759	7.1	34	18	90	1.2	0.0	128	77	116	2.5		484	55
8/15	1306	37.1		75	963	7.4	42	20	115	1.6	0.0	155	96	149	0.0		546	57
9/13	1300	37.6		71	669	7.4	34	14	79	2.3	0.0	142	53	97	1.2		388	54
10/15	1240	37.6		65	599	7.2	29	12	68	2.0	0.0	123	49	89	0.6		384	54
11/16	1355	36.9		54	1189	8.5	52	29	143	3.9	6.6	167	155	200	2.5		760	55
12/14	1036	36.5		55	1306	7.6	51	32	154	3.1	0.0	180	144	224	5.0		778	56
SAN JOAQUIN RIVER AT LAIRD SLOUGH BRIDGE T4S, R7E, Sec. 25D																		
1/12	1245			50	203	7.5	12	6.0	18	1.2	0.0	62	19	22	1.2		168	41
2/15	1125	40.8		51	249	7.8	13	7.6	24	0.0	0.0	63	22	29	0.6		176	45
3/15	1530			58	514	6.8	28	10	52	1.6	0.0	82	51	75	2.5		304	50
4/13	0920	31.4		58	713	7.7	33	19	79	2.3	0.0	119	71	110	1.9		380	52
5/11	0935	37.2		63	216	7.2	12	6.2	20	0.0	0.0	51	17	27	0.6		170	44
6/15	1150			68	131	6.9	8	2.8	12	0.4	0.0	32	9.1	15	0.6		92	45
7/13	1010			74	810	7.3	37	21	94	1.2	0.0	132	90		2.5		516	53
8/15	1208	7.90		73	1034	7.8	45	23	118	2.3	0.0	163	113	153	0.6		586	55
9/13	1335	8.47		71	738	8.0	36	19	87	2.3	0.0	158	65	109	1.2		440	52
10/15	1155	28.7		66	787	7.4	37	18	92	2.0	0.0	145	71	121	3.1		516	54
11/15	1045	27.6		53	1247	8.5	57	33	150	3.5	9.9	180	161	201	3.7		890	54
12/14	1130	7.44		55	1314	8.3	57	31	154	3.5	0.0	198	150	226	5.0		790	55
SAN JOAQUIN RIVER AT WEST STANISLAUS IRRIGATION DISTRICT T4S, R7E, Sec. 10																		
1/12							No sample taken - road impassable due to flood.											
2/15	1106			52	248	8.0	13	6.5	23	0.0	0.0	66	17	28	0.6		184	45
3/15	1540			58	542	6.9	26	13	56	1.6	0.0	79	60	83	1.2		324	50
4/13	1000	28.6		58	652	7.6	30	16	74	2.3	0.0	122	64	100	3.1		440	53
5/11	1000	35.0		65	223	7.0	13	7.1	21	0.0	0.0	53	20	29	3.7		158	43
6/15	1201			68	124	7.0	9.4	1.7	12	0.4	0.0	31	10	12	0.6		90	46
7/13	1045			75	850	7.2	38	23	95	1.2	0.0	141	93	134	1.2		552	52
8/15	1154	24.1		75	1025	7.5	47	26	115	1.6	0.0	164	119	154	0.0		594	52
9/13	1410	24.7		72	773	7.8	39	17	90	2.3	0.0	155	66	116	1.2		460	53.5
10/15	1130	25.0		67	772	7.3	36	18	81	2.0	0.0	141	69	117	3.1		484	52
11/15	1015	24.3		54	1432	8.6	57	40	181	3.1	9.9	178	175	249	3.1		890	56
12/14	1145	25.3		54	1304	8.0	54	35	150	3.1	0.0	231	154	213	6.2		772	50
SAN JOAQUIN RIVER AT EL SOLYO RANCH T3S, R7E, Sec. 29F																		
1/12	1220			50	166				12					16			120	31
2/16	1045			49	244				22					31			148	39
3/15	1550			58	395				36					55			228	40
4/13	1025	9.32		56	403				40					64			244	43
5/11	1030			61	148				13					19			104	38
6/14	1230			68	168				14					24			120	36
7/13	1130			73	815				86					149			504	46
8/15	1120	4.80		72	728				77					125			472	46
9/13	1430			70	586				62					97			356	46
10/15	1110			65	591				62					98			360	46
11/15	1000			54	696				73					124			456	46
12/14	1205			54	499				52					87			328	45
SAN JOAQUIN RIVER NEAR VERNALIS T3S, R6E, Sec. 13B																		
1/30	1110			44	154	6.7	10	5.7	11	1.6	0.0	45	13	16	0.0		108	32
3/1	0835	17.9		51	206	7.8	14	5.1	17	1.6	0.0	60	16	24	0.0	0.05	148	39
3/28	1340			61	679	7.6	33	17	70	1.6	0.0	112	54	111	0.0		406	50
5/2	1350			69	187	7.9	13	5.0	15	0.4	0.0	51	11	25	0.6		140	19
5/28	1320			--	78	7.1	7.4	1.8	5.1	1.0	0.0	23	1.9	10	0.0		62	31
6/25	1000			65	165	6.8	11	3.0	13	0.0	0.0	38	8.2	27	0.6		92	41
7/26	1020			79	641	7.5	35	17	65	2.7	0.0	139	37	111	6.8		430	47
8/29	1205			72	655	7.4	35	15	66	1.6	0.0	122	41	107	1.2		378	49
9/26	1350			71	519	8.0	28	12	57	2.3	0.0	127	29	82	0.6		318	50
10/30	1320			59	598	7.1	34	15	61	2.3	0.0	113	44	97	1.9		360	48
11/29	1045			50	379	7.6	21	9.9	37	2.3	0.0	70	31	61	0.6		254	46
12/27	1435			5	595	8.1	32	15	61	0.8	0.0	104	44	103	2.5		354	48

Data copied from U.S. Bureau of Reclamation compilation. (Daylight Saving Time in effect April 29, 1956, through September 30, 1956.)

TABLE 235

COMPLETE OR PARTIAL ANALYSES OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1956 (contd.)

Date	Time	G. H. Feet	Flow c.f.s.	Temp °F	Kx10^6	pH	Parts per Million Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	B	Total Solids	% Na
MERCED RIVER AT MERCED RIVER BRIDGE T7S, R9E, Sec. 3I																		
1/12	1410			51	118				6.2					7.8			88	23
2/15	1304			50	150				6.9					9.2			102	20
3/15	1425			58	110				6.9					8.5			118	27
4/12	1605			60	182				15					15			130	37
5/10	1450			65	66				3.4					3.9			80	23
6/15	0810			66	49				1.2					0.4			48	11
7/13	0845			71	210				21					16			160	43
8/15	1403			74	322				31					112			208	42
9/14	1430			72	245				23					21			176	41
10/15	1315			66	249				24					22			188	41
11/16	1305			56	292				26					18			188	39
12/14	0935			53	332				36					31			264	47
TUOLUMNE RIVER AT TUOLUMNE CITY BRIDGE T4S, R8E, Sec. 7B																		
1/12	1257			50	87				4.4					11			74	19
2/15	1135			47	158				11					24			104	30
3/15	1530			56	187				14					29			114	33
4/13	0910	32.8		54	177				4.8					18			126	12
5/11	0905	38.1		58	75				5.1					11			80	29
6/14	1140			66	150				12					29			88	35
7/13	0950	28.9		72	634				64					136			468	44
8/15	1219	2.72			479				45					93			308	41
9/13	1345			71	406				40					80			268	43
10/15	1145	28.9		65	436				40					85			276	40
11/15	1035	29.3		55	347				32					62			212	40
12/14	1117			55	237				22					49			156	40
STANISLAUS RIVER AT BRET HARTE PUMPS T3S, R7E, Sec. 9F																		
1/12	1120			49	112				3.7					3.6			88	14
2/16	1025			48	109				3.0					3.9			84	12
3/15	1606			55	118				4.4					5.0			96	16
4/13	1040			52	72				2.8					3.8			66	17
5/11	1115			57	64				2.1					3.2			80	14
6/15	1245			68	74				2.3					2.1			60	14
7/13	1230			69	82				3.4					0.0			64	18
8/15	1107			71	348				19					15			244	24
9/13	1520			71	233				14					11			184	26
10/15	1055			64	245				16					9.2			176	29
11/15	0920			52	288				9.0					7.1			152	14
12/14	1225			53	176				9.2					7.1			160	23
SALT SLOUGH AT SAN LUIS RANCH T9S, R11E, Sec. 7A																		
1/13	0930	5.90		50	724	7.3	36	17	82	2.0	0.0	98	101	112	0.6		462	52
2/15	1525	5.00		52	949	7.6	42	22	111	0.0	0.0	102	158	139	0.6		608	55
3/15	1130	3.60		57	964	7.0	46	22	109	2.7	0.0	121	118	159	1.9		594	53
4/12	1325	3.56		57	908	7.0	39	22	110	3.9	0.0	109	114	151	1.2		602	55
5/10	1230	3.1		63	854	7.4	40	22	95	1.6	0.0	121	91	149	1.9		536	52
6/14	1430			75	583	7.1	30	14	60	2.0	0.0	109	52	82	3.7		374	49
7/12	1230	3.50		73	658	7.3	35	15	70	1.2	0.0	113	64	102	3.1		424	50
8/16	0940	3.10		71	764	7.2	38	18	79	2.0	0.0	131	72	118	2.5		442	50
9/14	1140	2.95		70	952	7.5	44	25	110	3.5	0.0	158	99	157	3.1		568	52
10/16	0940			63	1466	7.2	56	38	176	2.7	0.0	175	143	266	5.6		946	56
11/16	1010	2.6		50	1462	8.4	54	39	196	3.9	5.7	156	179	268	4.3		910	59
12/13	1128	1.8		53	2786	7.9	85	73	368	4.3	0.0	232	385	540	8.7		1716	61
SAN JOAQUIN RIVER AT MOSSDALE BRIDGE T2S, R6E, Sec. 3																		
1/30	1500			48	150				10					15			114	29
2/27	1327			50	286				25					38			176	38
3/26	1250	3.13		60	656				66					103			390	44
5/3	1350			64	163				13					18			104	35
5/31	1322			64	95				6.4					11			84	29
6/25	1045			68	154				13					20			88	37
7/26	1100			80	726				76					139			408	45
8/29	1135			73	695				73					121			420	46
9/26	1310			70	516				51					78			292	43
10/30	1345			59	629				65					106			356	45
12/5	1030	3.24		53	429				41					70			300	42
12/27	1320			47	578				62					104			344	46
SAN JOAQUIN RIVER AT SAN ANDREAS LANDING T3N, R3E, Sec. 13																		
2/1	1045			43	137		11	5.7	6.0	1.6	0.0	41	12	11	1.2		102	20
3/1	0925			48	212		16	7.1	14	1.6	0.0	59	24	22	0.0		160	31
3/28	1140			54	124		11	5.6	4.6	0.0	0.0	47	7.7	6.0	0.0		90	17
5/2	1440			60	129		11	4.3	7.8	0.0	0.0	48	6.7	12	0.6		114	27
5/29	1025			62	116		8.8	3.3	7.6	1.6	0.0	35	6.7	11	0.0		92	31
6/26	1010			70	141		9.8	4.1	9.9	0.0	0.0	41	6.2	18	1.2		100	34
7/25	0950			--	169		12	5.7	15	0.0	0.0	62	10	20	0.0		122	37
8/28	1310			70	260		14	7.2	21	1.6	0.0	67	15	33	0.0		148	41
9/26	1105	5.49										No analysis						
10/31	1030			56	239		14	7.3	22	1.6	0.0	67	28	19	0.6		158	41
11/29	1130	4.92		50	239		17	7.4	19	2.3	0.0	70	16	28	0.0		162	36
12/26	1040	--		--	267		19	8.7	22	0.4	0.0	70	23	34	0.6		180	37

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TABLE 235

COMPLETE OR PARTIAL ANALYSES OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1956 (contd.)

Date	Time	G. H. Feet	Flow c.f.s.	Temp. °F	Kx10^6	pH	Parts per Million Ca	Mg	Na	K	CO_3	HCO_3	SO_4	Cl	NO_3	B	Total Solids	% Na
SAN JOAQUIN RIVER AT JERSEY POINT T2N, R3E, Sec. 6																		
6/26	0920			70	137												96	
7/26	1055			71	251												140	
8/29	1330			70	611												356	
9/27	1440			69	266												240	
SAN JOAQUIN RIVER AT ANTIOCH T2N, R2E, Sec. 18																		
1/30	1325	1.93		49	297				20					33			272	29
3/1	1355			51	240				17					29			166	31
3/26	1115			57	230				15					24			158	28
5/1	1050			62	235				18					26			144	33
5/28	1105			66	161				11					17			120	29
6/25	1005			70	148				9.9					17			104	29
7/26	1245			72	783				96					190			480	54
8/29	1415			70	1318				178					329			752	58
9/27	1015			69	382				39					62			248	44
10/30	1050			59	486				50					80			264	45
11/29	1250			51	373				35					60			220	41
12/26	1235			--	523				60					102			296	50
OLD RIVER AT CLIFTON COURT FERRY T1S, R4E, Sec. 21																		
1/3	1141			51	153				12					16			124	34
1/30	1430	6.42		49	183				13					21			138	31
2/27	0925			49	316				29					37			202	40
3/26	1030			60	484				44					73			296	40
5/3	0850	3.45		63	182				15					22			142	31
5/31	1410	4.60		65	113				8.0					13			96	31
6/25	1215			68	121				11					15			80	40
7/26	1230			80	211				18					26			176	37
8/29	1030			73	667				69					114			400	45
9/26	1010			70	503				47					76			276	41
10/30	1425			59	586				58					97			344	43
12/5	1245			50	435				42					68			264	42
12/27	1014			43	471				47					82			304	43
CONTRA COSTA CANAL AT 1ST PUMP LIFT T2N, R2E, Sec. 25																		
1/30	1410			49	982	7.1	40	33	102	3.9	0.0	104	185	133	7.4		628	48
3/1	1440			52	541	7.8	23	16	59	1.6	0.0	90	72	75	1.2	0.30	364	51
3/26	1030			57	534	7.1	23	16	53	1.6	0.0	85	67	71	0.6		334	47
5/1	1000			64	464	8.0	21	13	47	1.2	0.0	82	50	65	1.2		274	48
5/28	1030			67	231	7.4	12	6.8	22	1.6	0.0	50	23	28	0.6	0.00	148	44
6/25	1000			70	247	6.8	12	7.0	23	0.0	0.0	45	24	36	0.6	--	144	46
7/25	1400			--	205	7.1	13	5.7	19	0.0	0.0	57	18	27	2.6		138	42
8/29	1445			74	396	7.6	18	11	37	3.9	0.0	70	44	55	0.6	0.22	216	45
9/26	1420			71	369	8.0	19	11	38	1.2	0.0	90	33	49	0.0		254	47
10/29	0940			58	508	7.3	26	14	52	2.3	0.0	101	42	75	1.2		296	48
11/29	1025			48	721	8.1	36	18	71	2.7	0.0	117	72	114	1.2	0.27	496	48
12/26	1445			--	599	8.0	32	17	59	1.6	0.0	89	74	91	3.7	--	394	46
OLD RIVER AT HOLLAND TRACT T2N, R4E, Sec. 19																		
2/2	1245			49					20					31			240	34
3/1	1325			54					31					47			214	39
3/26	0945			57					31					57			222	37
5/1	0913			62					24					57			162	38
5/28	0940			64					12					18			109	35
6/25	0855			70					13					20			124	33
7/26	1000			74					17					21			116	42
8/29	1115			73					24					38			172	37
9/27	1530			70					24					49			184	34
10/30	1015			59					48					79			316	42
11/29	0950			51					59					97			384	43
12/27	1135			46					42					67			288	38
DUTCH SLOUGH AT FARRAR PARK T2N, R3E, Sec. 22																		
6/26	0940			74	165												112	
7/26	1040			72	249												140	
8/29	1155			70	479												284	
9/27	1500			70	333												212	
FALSE RIVER AT WEBB PUMP T3N, R3E, Sec. 30																		
7/26	1148			73	179												60	
8/29	1240			70	316												200	
9/27	1345			71	260												184	

Data copied from U.S. Bureau of Reclamation compilation. (Daylight Saving Time in effect April 29, 1956, through September 30, 1956.)

LAHONTON AREA

LAHONTAN AREA

Introduction

Reporting of stream flow in this area is initiated in this report. Geographically the Lahontan Area is the most extensive of the hydrographic areas (see Plate 1). It lies along almost the entire California-Nevada border, extending from the Oregon border to the New York Mountains, within 40 miles 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 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

Record for one stream flow station, Pine Creek near Susanville, is included in this report for the 1956 water year.

TABLE 236

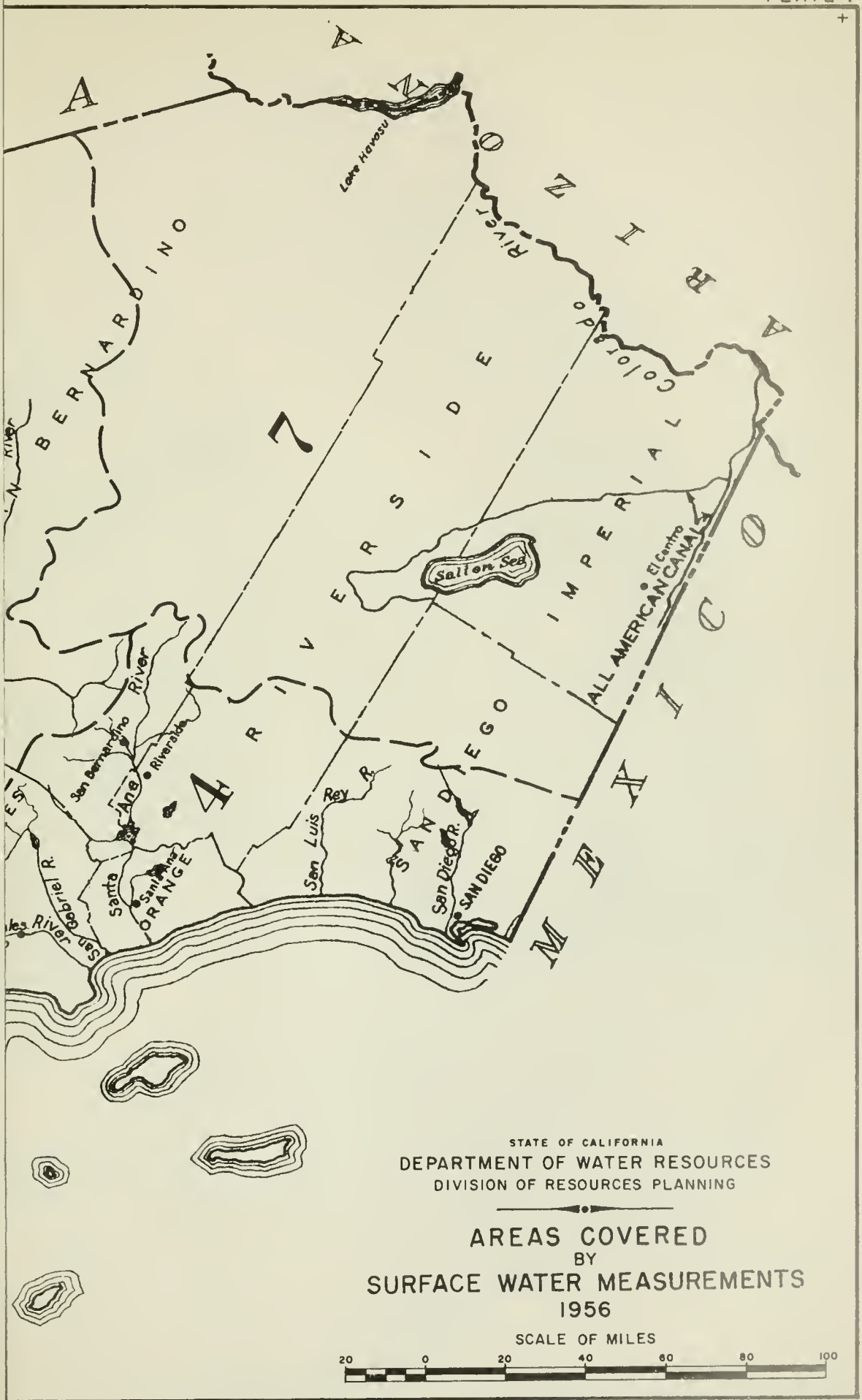
PINE CREEK NEAR SUSANVILLE

Date	Daily Mean Flow in Second - Feet. Water Year October, 1955 To September, 1956											
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13											N	N
14											O	O
15												
16												
17											F	F
18											L	L
19											O	O
20											W	W
21												
22												
23												
24												
25												
26										0		
27										0		
28										0		
29										0		
30										0		
31		—			=		—		—	0		—
Mean											0	0
Ac-Ft											0	0

Maximum Discharge	Water Year Of Record 0 c.f.s.	Total Runoff in Acre - Feet	1955 - Calendar Year 1955 - 56 Water Year

Department of Water Resources station located approximately 17 miles northwest of Susanville and 2.5 miles above mouth Pine Creek flows into Eagle Lake. Recorder installed July 25, 1956.

PLATES



STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING

AREAS COVERED BY SURFACE WATER MEASUREMENTS 1956

SCALE OF MILES

20 0 20 40 60 80 100

STREAM GAGING STATIONS SHOWN ON THIS PLATE

North Coastal Area

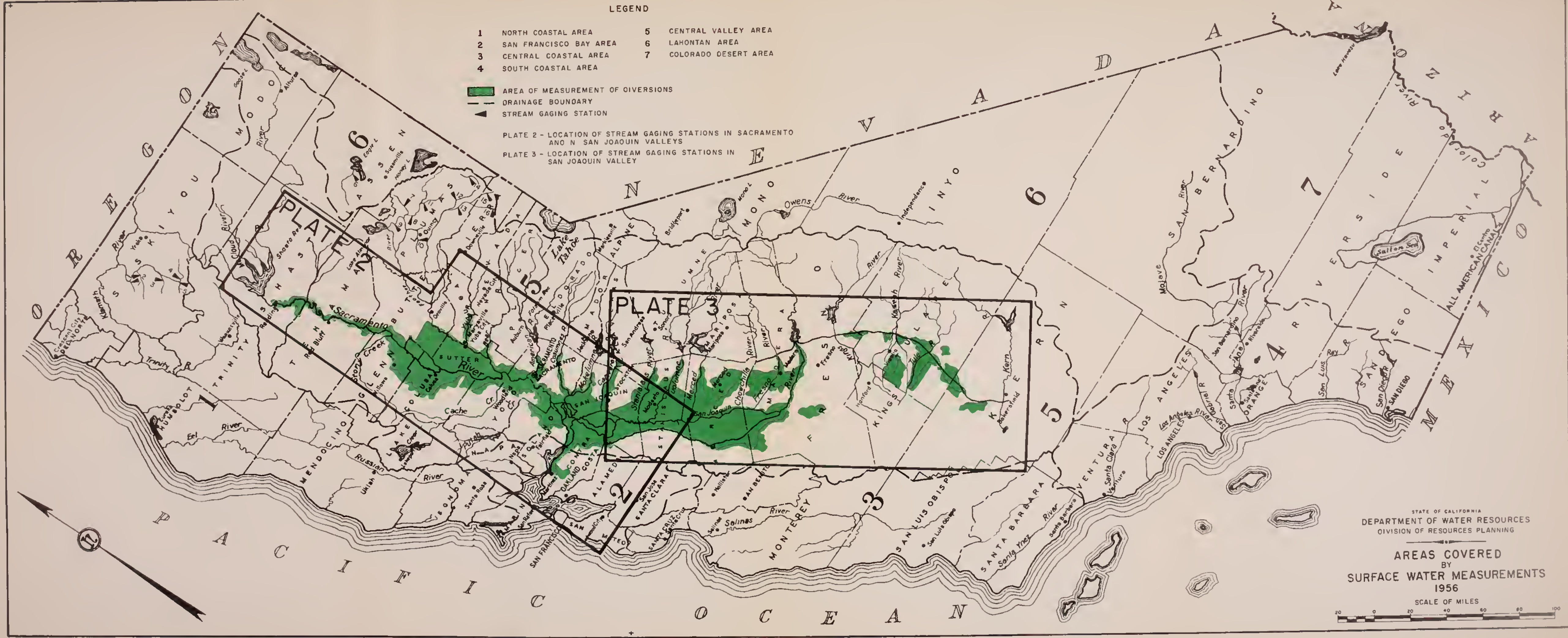
1	Canyon Creek near Kelsey Creek Guard Station
4	East Fork Scott River near Callahan
3	Etna Creek near Etna
2	Shackleford Creek near Mugginsville
5	South Fork Scott River near Callahan

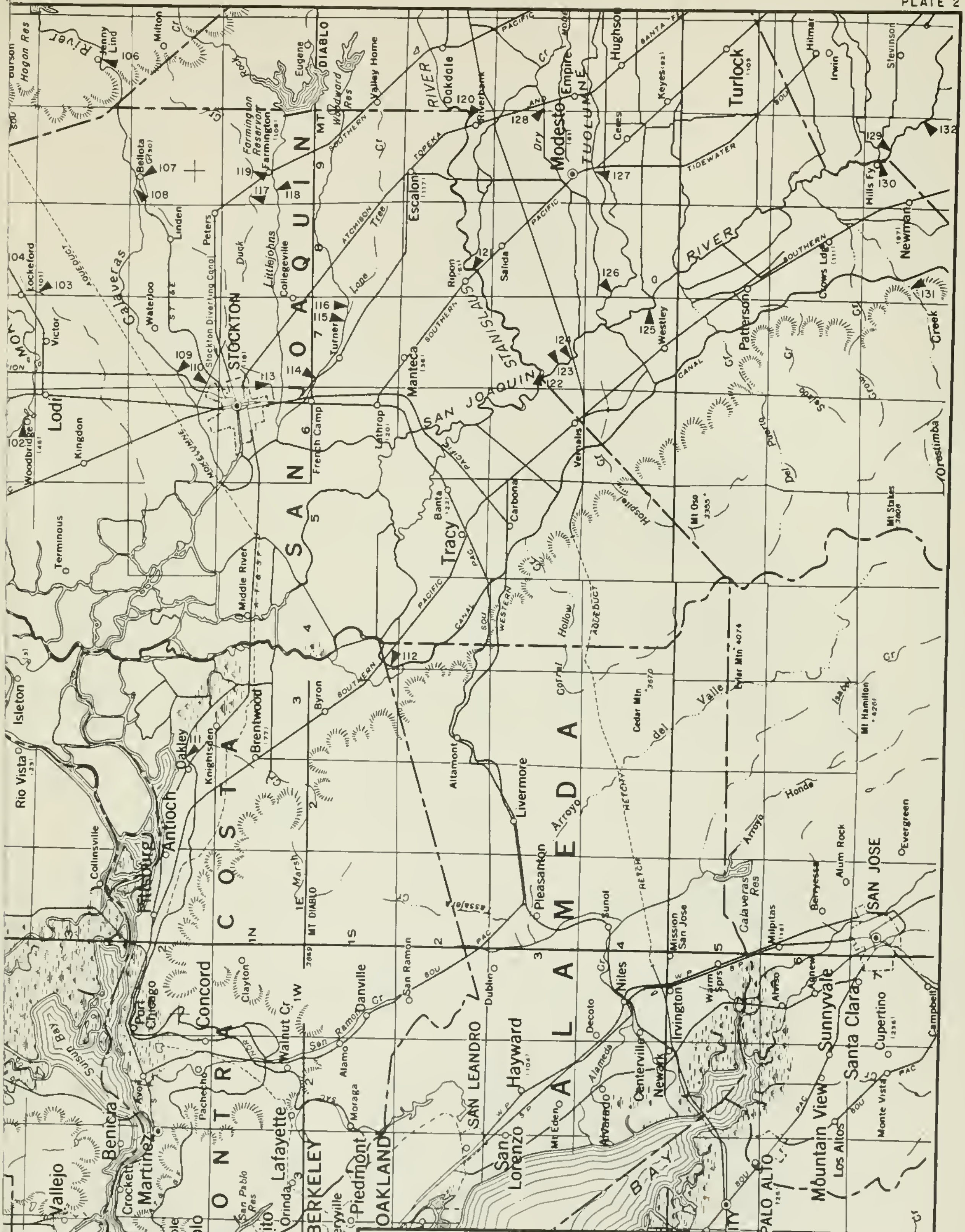
Central Valley Area

8	Indian Creek near Taylorsville
7	Lights Creek near Taylorsville
14	Little Last Chance Creek near Chilcoot
12	Middle Fork Feather River near Portola
13	Miller Creek near Sattley
11	Red Clover Creek near Genesee
15	Smithneck Creek near Loyalton
10	Spanish Creek near Quincy
16	Webber Creek near Sierraville
9	Wolf Creek at Greenville

Lahontan Area

6	Pine Creek near Susanville


LEGEND
1 NORTH COASTAL AREA
2 SAN FRANCISCO BAY AREA
3 CENTRAL COASTAL AREA
4 SOUTH COASTAL AREA
5 CENTRAL VALLEY AREA
6 LAHONTAN AREA
7 COLORADO DESERT AREA
AREA OF MEASUREMENT OF DIVERSIONS
DRAINAGE BOUNDARY
STREAM GAGING STATION
PLATE 2 - LOCATION OF STREAM GAGING STATIONS IN SACRAMENTO AND N SAN JOAQUIN VALLEYS
PLATE 3 - LOCATION OF STREAM GAGING STATIONS IN SAN JOAQUIN VALLEY
PLATE 2
PLATE 3
OREGON
NEVADA
ARIZONA
MEXICO
PACIFIC OCEAN
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
AREAS COVERED BY SURFACE WATER MEASUREMENTS 1956
SCALE OF MILES



STOCKTON
Lodi
Woodbridge
Kingdon
Terminous
Isleton
Rio Vista
Collinsville
Antioch
Pittsburg
Oakley
Knightsen
Brentwood
Byron
Middle River
French Camp
Lathrop
Manteca
Banta
Tracy
Carbona
Vernalis
Escalon
Ripon
Salida
Modesto
Empire
Ceres
Hughson
Oakdale
Riverbank
Keyes
Turlock
Hilmar
Irwin
Stevinson
Hills Fy
Newman
Crows Ldg
Patterson
Westley
Farmington
Bellota
Linden
Peters
Collegeville
Waterloo
Lockeford
Victor
Milton
Jenny Lind
Valley Home
Altamont
Livermore
Pleasanton
Sunol
Dublin
San Ramon
Danville
Alamo
Walnut Cr
Lafayette
Moraga
Orinda
Concord
Clayton
Port Chicago
Pacheco
Martinez
Benicia
Vallejo
Crockett
Rodeo
Pinole
San Pablo
RICHMOND
El Cerrito
Albany
BERKELEY
Emeryville
Piedmont
OAKLAND
SAN LEANDRO
San Lorenzo
Hayward
Mt Eden
Alvarado
Decoto
Centerville
Niles
Newark
Irvington
Mission San Jose
Warm Sprs
Milpitas
Agnew
SAN JOSE
Santa Clara
Sunnyvale
Mountain View
Los Altos
Cupertino
Monte Vista
Campbell
Evergreen
Alum Rock
Berryessa
PALO ALTO
San Rafael
San Quentin
Belvedere
Sausalito
SAN JOAQUIN
CONTRA COSTA
ALAMEDA
SAN PABLO BAY
Suisun Bay
Calaveras
Galaveras Res
Mt Oso
Mt Stakes
Mt Hamilton
Cedar Mtn
Eylar Mtn
SAN JOAQUIN RIVER
STANISLAUS RIVER
TUOLUMNE RIVER
Orestimba Creek

STATE OF CALIFORNIA

DEPARTMENT OF WATER RESOURCES

DIVISION OF RESOURCES PLANNING

LOCATION OF STREAM GAGING STATIONS

IN

SACRAMENTO AND NORTHERN SAN JOAQUIN VALLEYS

1956

SCALE OF MILES

0 4 8 12 16

STREAM GAGING STATIONS SHOWN ON THIS PLATE

98 American River at Fair Oaks

97 American River at Sacramento ("H" Street Bridge)

27 Antelope Creek near Mouth

26 Antelope Creek near Red Bluff

68 Auburn Ravine at Lincoln

22 Battle Creek near Cottonwood

103 Bear Creek near Lockeford

74 Bear Creek near Rumsey

66 Bear River near Wheatland

41 Big Chico Creek at Chico (Rose Avenue)

42 Big Chico Creek near Chico

43 Butte Creek near Chico

53 Butte Slough to Sacramento River at Outfall Gates

75 Cache Creek near Capay

82 Cache Creek at Yolo

108 Calaveras River at Bellota

106 Calaveras River at Jenny Lind

109 Calaveras River near Stockton

19 Clear Creek near Igo

73 Colusa Basin Drain near College City

81 Colusa Basin Drain to Sacramento River at Knights Landing

50 Colusa Basin Drain at Highway 20

51 Colusa Weir from Sacramento River to Butte Basin

111 Contra Costa Canal at Pumping Plant No. 1

67 Coon Creek at Highway 99E

23 Cottonwood Creek near Cottonwood

20 Cow Creek near Millville

100 Cosumnes River at McConnell

99 Cosumnes River at Michigan Bar

34 Deer Creek at Highway 99E

64 Deer Creek near Smartville

33 Deer Creek near Vina

112 Delta Mendota Canal at Tracy Pumping Plant

101 Dry Creek near Galt

128 Dry Creek near Modesto (Clauss Road Bridge)

62 Dry Creek at Virginia Ranch

65 Dry Creek near Wheatland

117 Duck Creek at Farmington

119 Duck Creek Diversion at Farmington

113 Duck Creek near Stockton (Laurel Avenue)

29 Elder Creek at Gerber

47 Feather River near Oridley

69 Feather River at Nicolaus

46 Feather River near Oroville

58 Feather River below Shanghai Bend

57 Feather River at Yuba City (5th St. Bridge)

83 Fremont Weir from Sacramento River to Yolo Bypass

114 French Camp Slough near French Camp (Sharpa Lane)

118 Littlejohns Creek at Farmington

89 Linda Creek near Roseville

40 Lindo Channel near Chico

115 Lone Tree Creek near Manteca (Austin Road)

130 Merced River at Merced River Slough near Newman

129 Merced River near Stevinson

32 Mill Creek near Los Molinos

31 Mill Creek near Mouth

104 Mokelumne River near Clements

105 Mokelumne River at Lancha Plana

102 Mokelumne River at Woodbridge

107 Mormon Slough at Bellota

49 Moulton Weir from Sacramento River to Butte Basin

88 Natomas Cross Canal at Head

30 North Fork Mill Creek near Mouth

132 Orestimba Creek near Newman

24 Payne's Creek near Red Bluff

93 Putah Creek near Davis

92 Putah Creek near Winters

71 Reclamation District No. 70 Drain

77 Reclamation District No. 108 Drain at Rough and Ready Bend

78 Reclamation District No. 787 Drain

90 Reclamation District No. 1000 Drain (Fritchard Lake)

95 Reclamation District No. 1000 Drain (2nd Bannon Slough)

86 Reclamation District No. 1001 Drain into Natomas Cross Canal

84 Reclamation District No. 1500 Drain into Sutter Bypass

28 Redbank Creek at Foothills

21 Sacramento River at Balls Ferry

45 Sacramento River at Butte City

52 Sacramento River at Colusa

39 Sacramento River at Hamilton City

17 Sacramento River at Keswick

80 Sacramento River at Knights Landing

55 Sacramento River at Meridian

48 Sacramento River at Moulton Weir (Opposite Gordon Pump)

44 Sacramento River at Ord Ferry

76 Sacramento River above Reclamation District 108 Drain Plant

25 Sacramento River near Red Bluff (Iron Canyon)

18 Sacramento River near Redding

96 Sacramento River at Sacramento

87 Sacramento River at Verona

35 Sacramento River at Vina Bridge

72 Sacramento River below Wilkins Slough

85 Sacramento Slough to Sacramento River

94 Sacramento Weir from Sacramento River to Yolo Bypass

133 San Joaquin River at Fremont Ford Bridge

125 San Joaquin River at Grayson (Laird Slough)

124 San Joaquin River at Retch Retchy Crossing

131 San Joaquin River near Newman

123 San Joaquin River near Vernalis

61 South Honcut Creek near Bangor

122 Stanislaus River near Mouth

121 Stanislaus River at Ripon

120 Stanislaus River at Riverbank

110 Stockton Diverting Canal at Stockton

37 Stony Creek below Black Butte Dam Site

38 Stony Creek below Hamilton City (near)

54 Sutter Bypass (Mawson Bridge)

79 Sycamore Slough near Knights Landing

116 Tempo Creek near Manteca (Jack Tone Road)

36 Thomes Creek at Paskenta

70 Tisdale Weir from Sacramento River to Sutter Bypass

126 Tuolumne River at Tuolumne City

127 Tuolumne River at Modesto

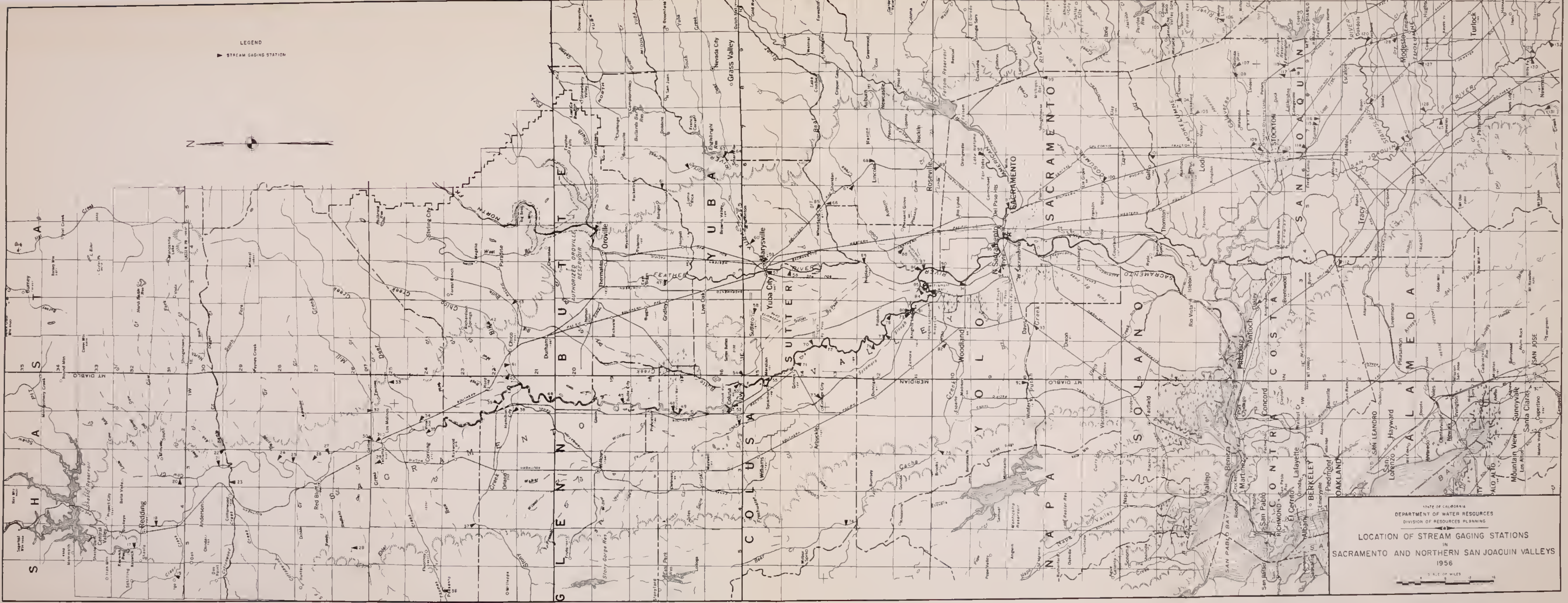
56 Wadsworth Canal to Sutter Bypass

91 Yolo Bypass near Woodland

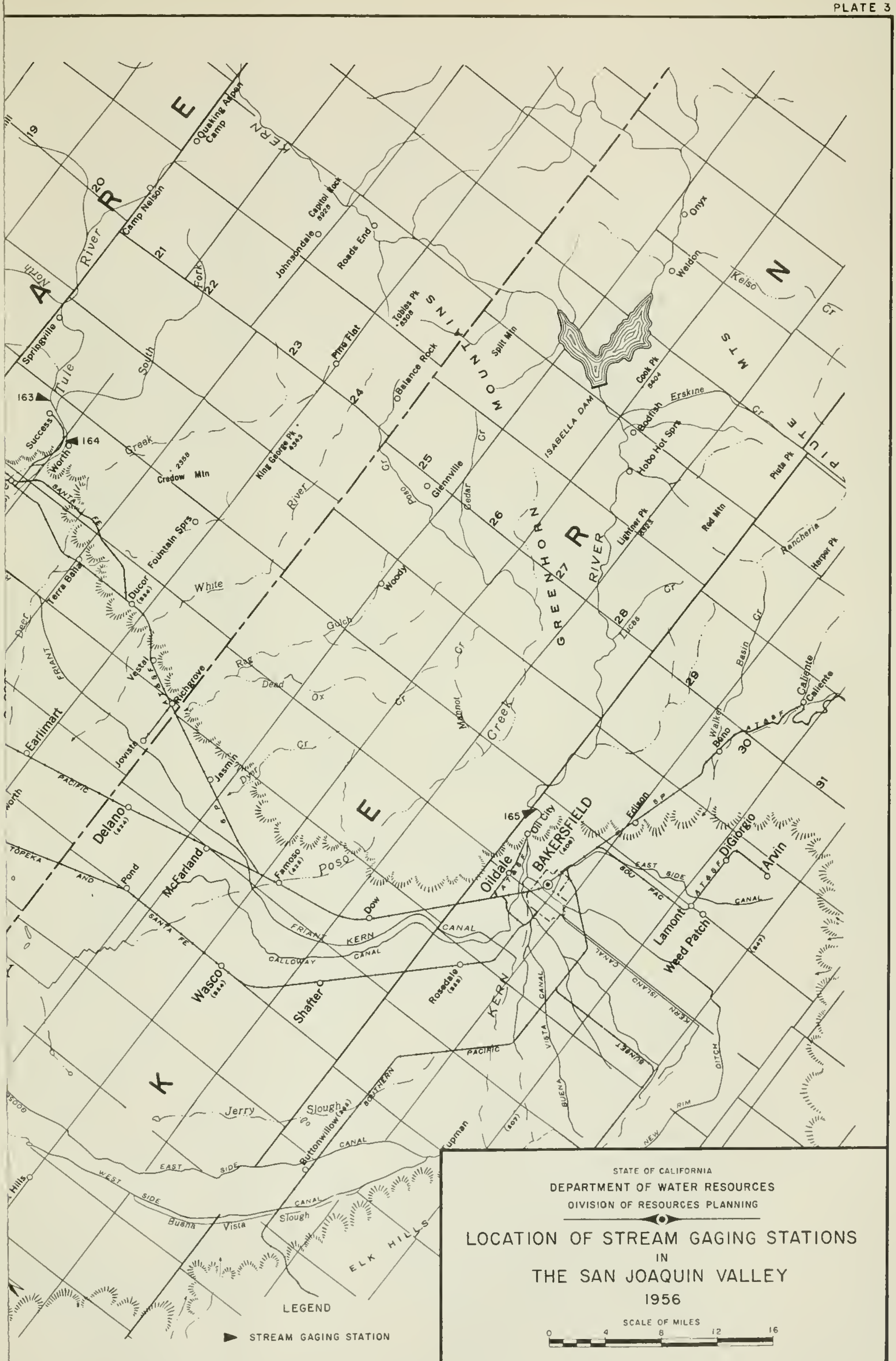
63 Yuba River at Englebright Dam

59 Yuba River at Marysville

60 Yuba River near Marysville



LOCATION OF STREAM GAGING STATIONS
IN
SACRAMENTO AND NORTHERN SAN JOAQUIN VALLEYS
1956



STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING

LOCATION OF STREAM GAGING STATIONS IN THE SAN JOAQUIN VALLEY

1956

SCALE OF MILES
0 4 8 12 16

STREAM GAGING STATIONS SHOWN ON THIS PLATE

145 Bear Creek below Bear Reservoir

144 Burns Creek below Burns Reservoir

108 Calaveras River at Bellota

106 Calaveras River at Jenny Lind

148 Chowchilla River at Buchanan Dam Site

158 Cross Creek below Lakeland Canal No. 2

128 Dry Creek near Modesto (Clauss Road Bridge)

117 Duck Creek at Farmington

119 Duck Creek Diversion at Farmington

113 Duck Creek near Stockton (Laurel Avenue)

114 French Camp Slough near French Camp (Sharps Lane)

153 Fresno River near Daulton

162 Friant-Kern Canal to Porter Slough

161 Friant-Kern Canal to Tule River

157 Kaweah River near Three Rivers

165 Kern River near Bakersfield

156 Kings River at Piedra

155 Little Dry Creek near Friant

118 Littlejohns Creek at Farmington

115 Lone Tree Creek near Manteca (Austin Road)

147 Mariposa Creek below Mariposa Reservoir

134 Merced River at Cressey

141 Merced River at Exchequer

130 Merced River at Merced River Slough near Newman

142 Merced River below Snelling

129 Merced River near Stevinson

107 Mormon Slough at Bellota

132 Orestimba Creek near Newman

146 Owens Creek below Owens Creek Reservoir

143 Salt Slough near Los Banos

152 San Joaquin River near Biola

149 San Joaquin River near Dos Palos

133 San Joaquin River at Fremont Ford Bridge

154 San Joaquin River below Friant

125 San Joaquin River at Grayson (Laird Slough)

124 San Joaquin River at Hetch Hetchy Crossing

150 San Joaquin River near Mendota

131 San Joaquin River near Newman

123 San Joaquin River near Vernalis

151 San Joaquin River at Whitehouse

159 South Fork Kings River below Empire Weir No. 2

139 Stanislaus River below Melones Power House

122 Stanislaus River near Mouth

137 Stanislaus River at Orange Blossom Bridge

121 Stanislaus River at Ripon

120 Stanislaus River at Riverbank

116 Tempo Creek near Manteca (Jack Tone Road)

163 Tule River near Porterville

160 Tule River at Turnbull Station

164 Tule River at Worth Bridge

135 Tuolumne River at Hickman Bridge

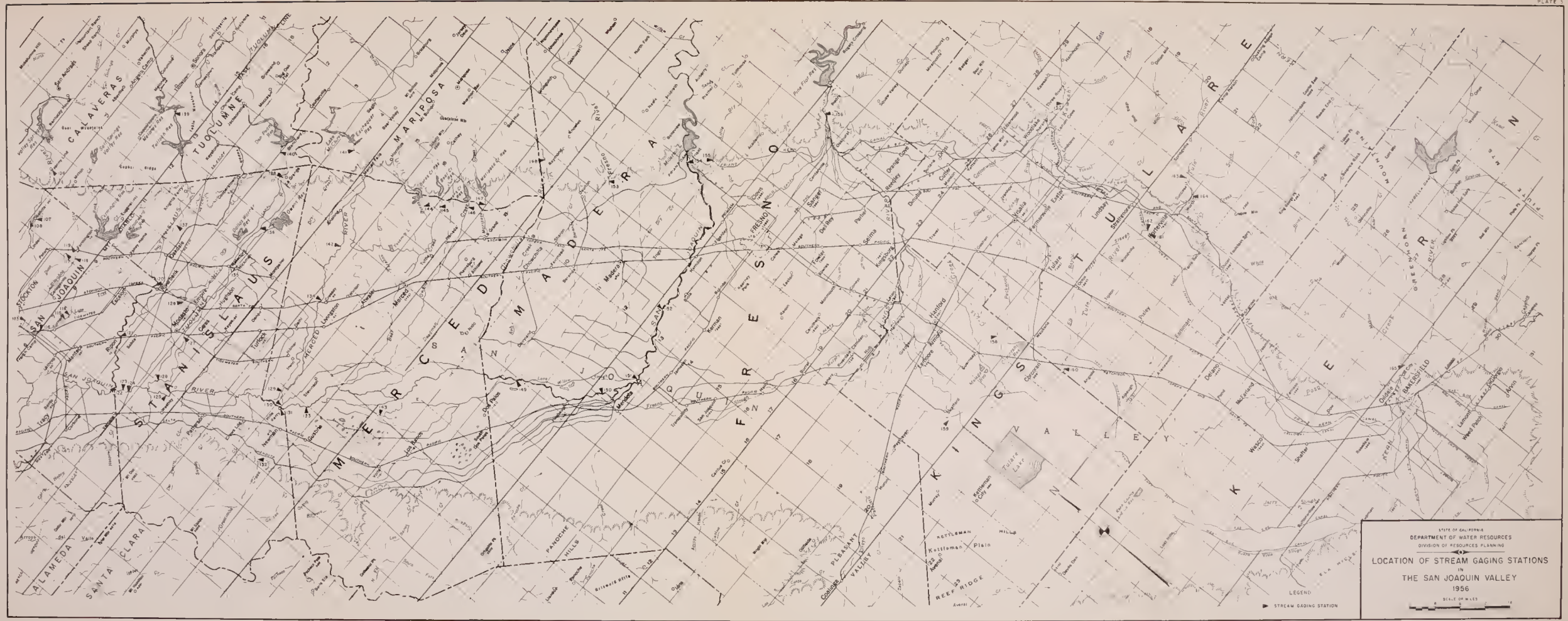
138 Tuolumne River at La Grange Bridge

140 Tuolumne River above La Grange Dam

127 Tuolumne River at Modesto

136 Tuolumne River at Roberts Ferry Bridge

126 Tuolumne River at Tuolumne City



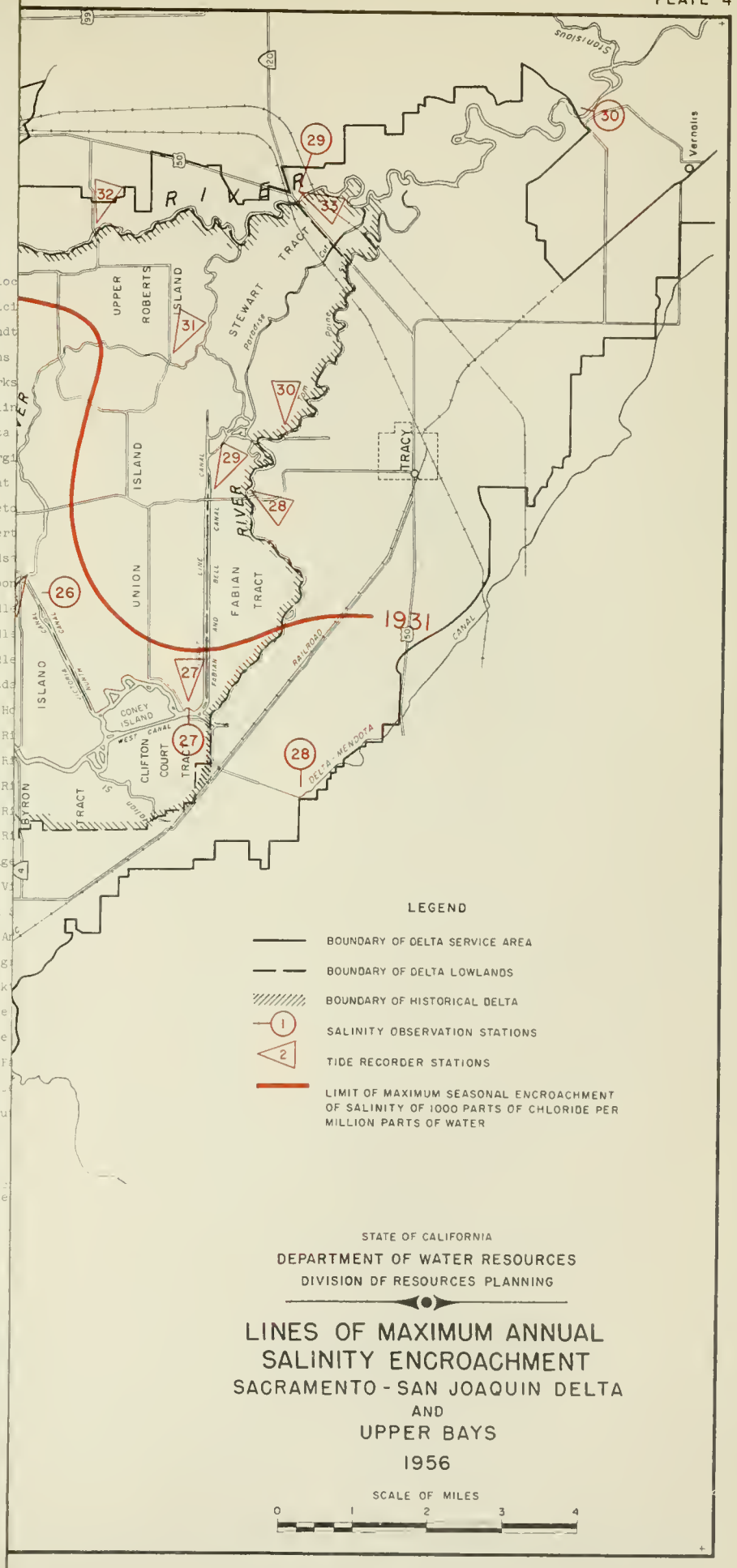
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING

LOCATION OF STREAM GAGING STATIONS IN THE SAN JOAQUIN VALLEY 1956

SCALE OF MILES

LEGEND
STREAM GAGING STATION

PLATE 4

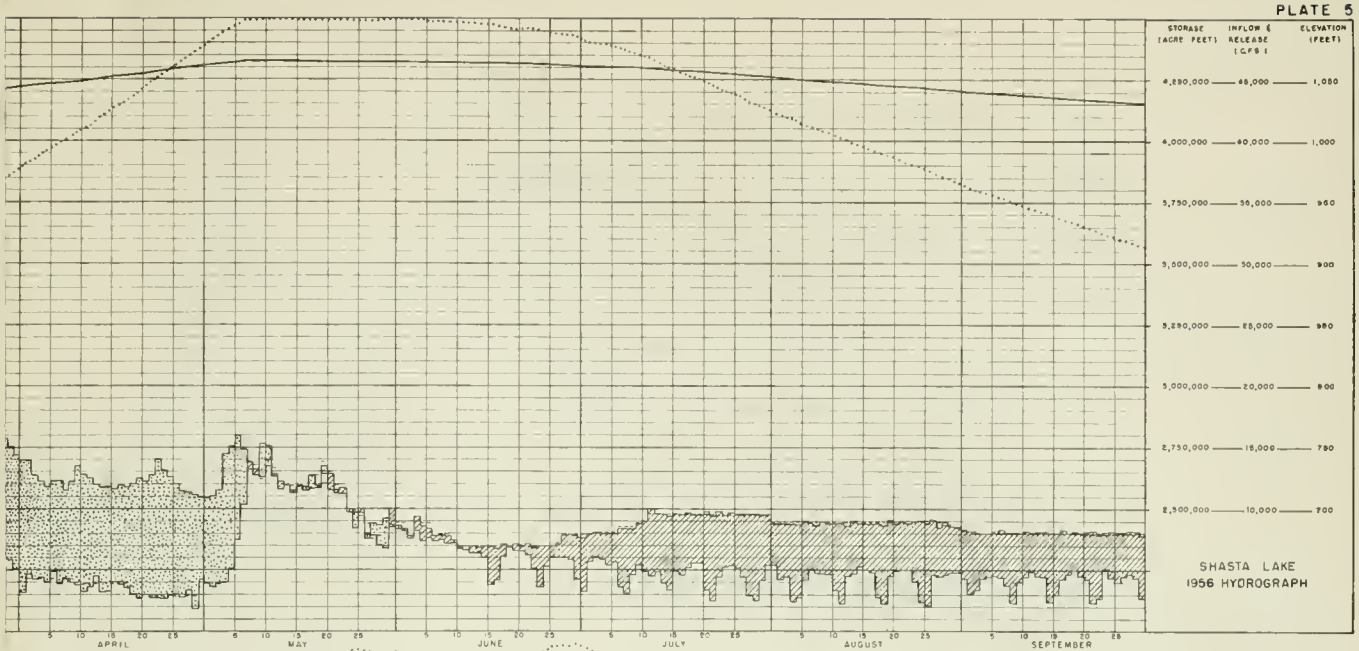


Station Number	
16	Antioc
Off Map	Benici
32	Brandt
23	Burns
2	Clarks
15	Collin
7	Delta
11	Georgi
29	Grant
9	Isleto
4	Libert
5	Lindst
1	Lisbon
21	Middl
25	Middl
31	Middle
33	Mossd
8	New Ho
27	Old Ri
18	Old Ri
26	Old Ri
19	Old Ri
28	Old Ri
22	Rindge
10	Rio Vi
17	Rock S
12	San An
3	Snodgr
24	Stack
13	Three
14	Three
30	Tom P
20	Veni
6	Walnu

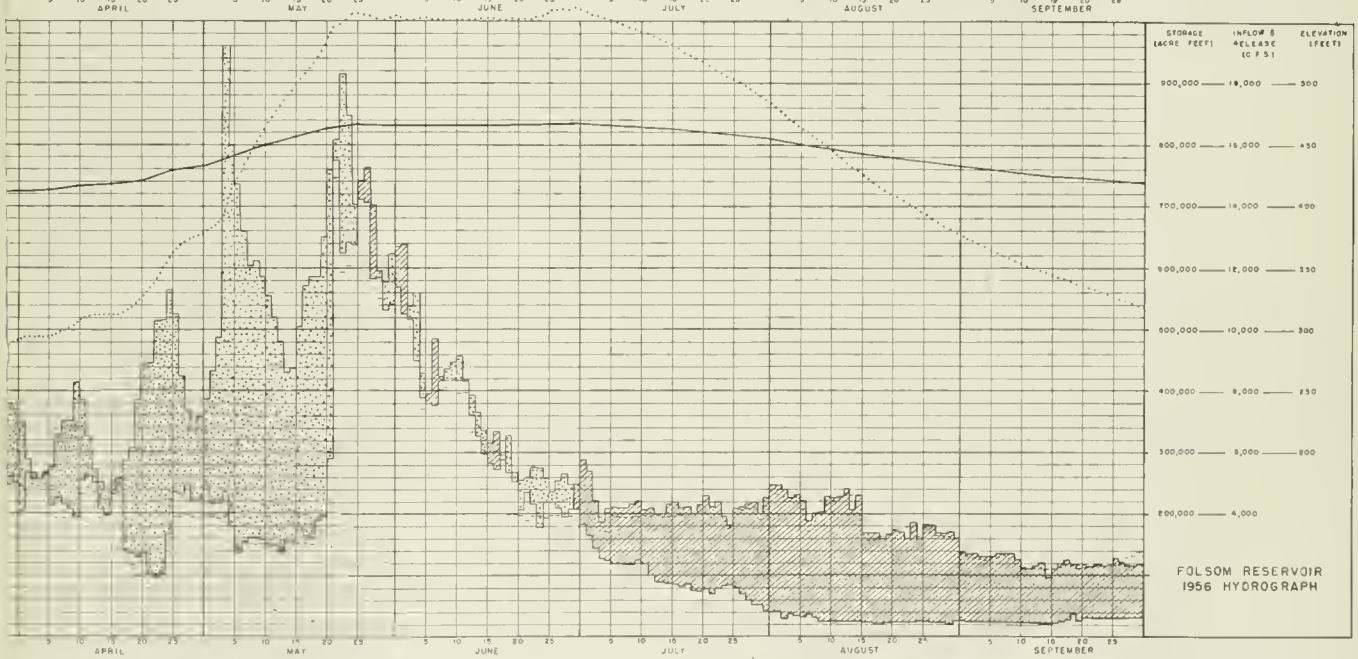
Note: For des
for Tide

1883-C

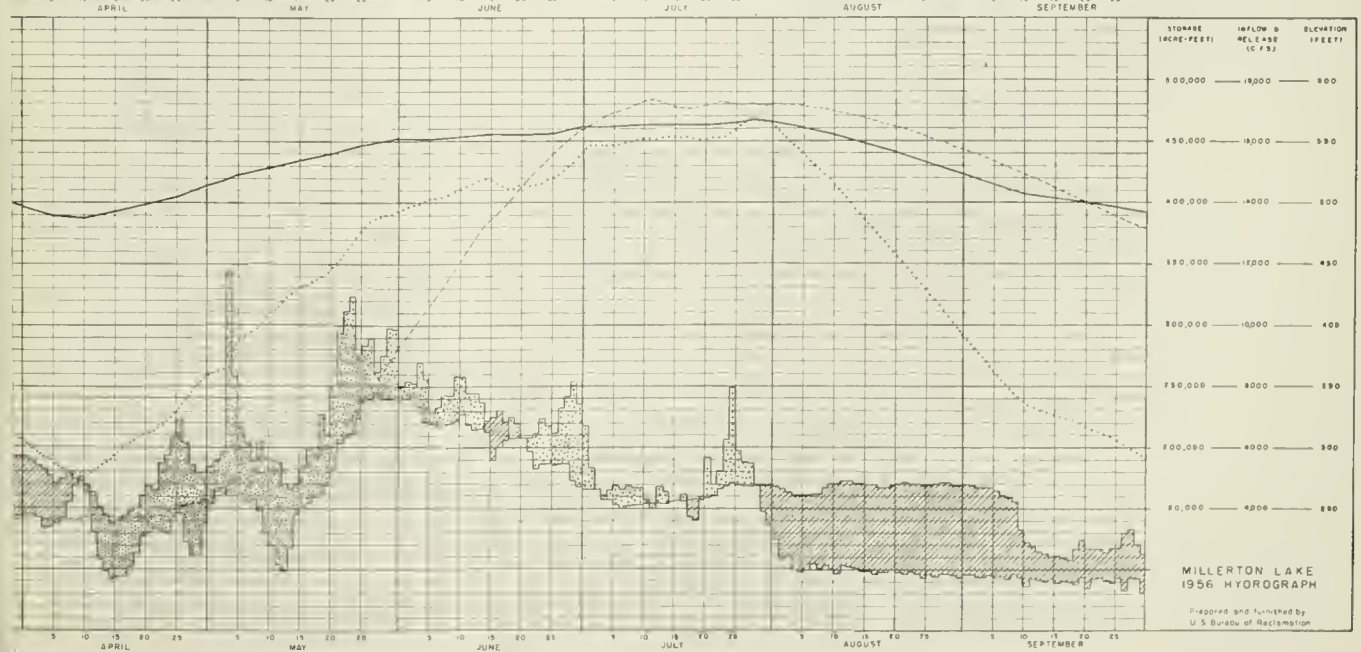

SACRAMENTO
AMERICAN
SACRAMENTO RIVER
SACRAMENTO DEEP WATER CHANNEL
YOLO BY-PASS
OLD RIVER
MIDDLE RIVER
SAN JOAQUIN
STOCKTON
1931
1944-47
1954
1955
1953
1956
1952
1938
LEGEND
BOUNDARY OF DELTA SERVICE AREA
BOUNDARY OF DELTA LOWLANDS
BOUNDARY OF HISTORICAL DELTA
SALINITY OBSERVATION STATIONS
TIDE RECORDER STATIONS
LIMIT OF MAXIMUM SEASONAL ENCROACHMENT OF SALINITY OF 1000 PARTS OF CHLORIDE PER MILLION PARTS OF WATER
STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
DIVISION OF RESOURCES PLANNING
LINES OF MAXIMUM ANNUAL SALINITY ENCROACHMENT
SACRAMENTO - SAN JOAQUIN DELTA
AND
UPPER BAYS
1956
SCALE OF MILES
0 1 2 3 4



SHASTA LAKE
1956 HYDROGRAPH

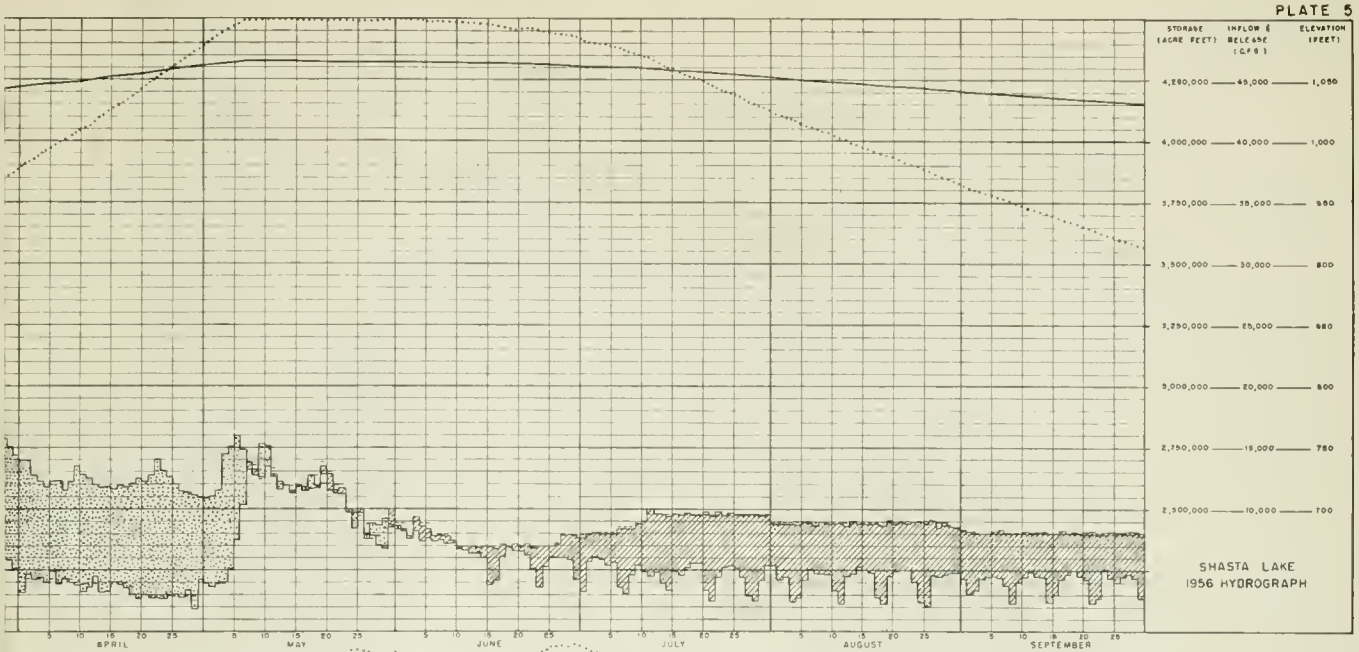


FOLSOM RESERVOIR
1956 HYDROGRAPH



MILLERTON LAKE
1956 HYDROGRAPH

Prepared and furnished by
U.S. Bureau of Reclamation



SHASTA LAKE
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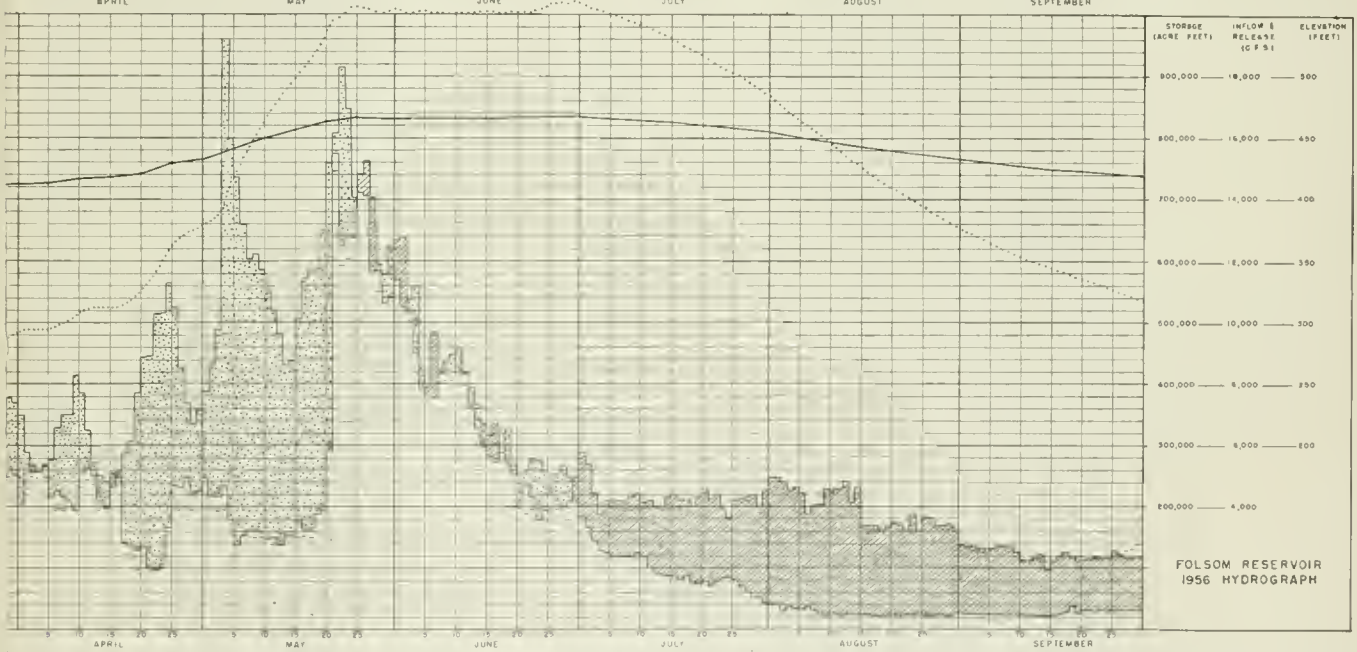

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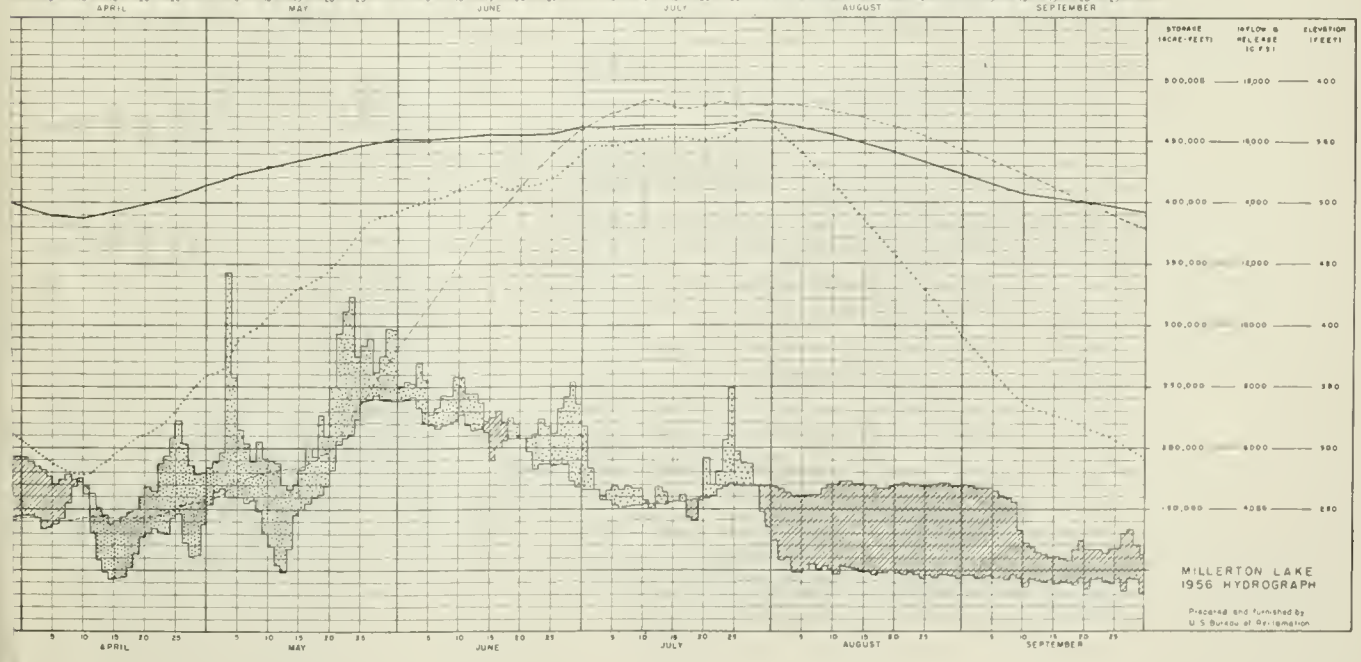
1956 HYDROGRAPH



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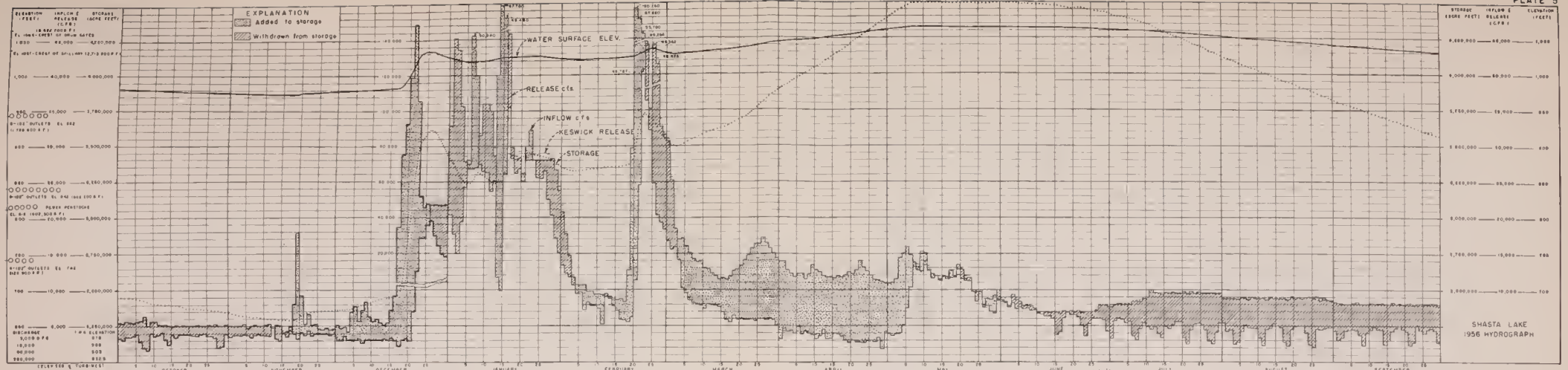

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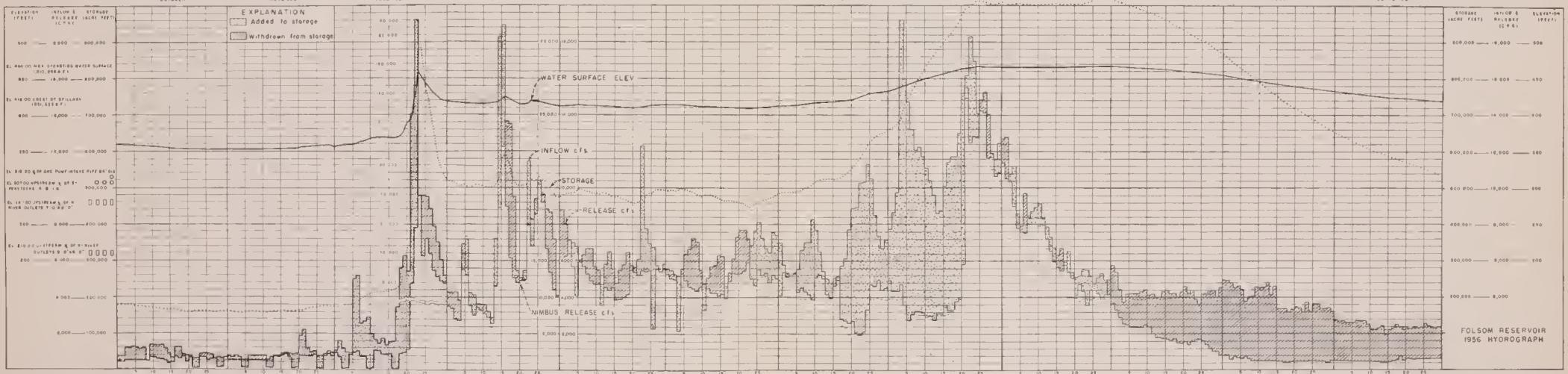
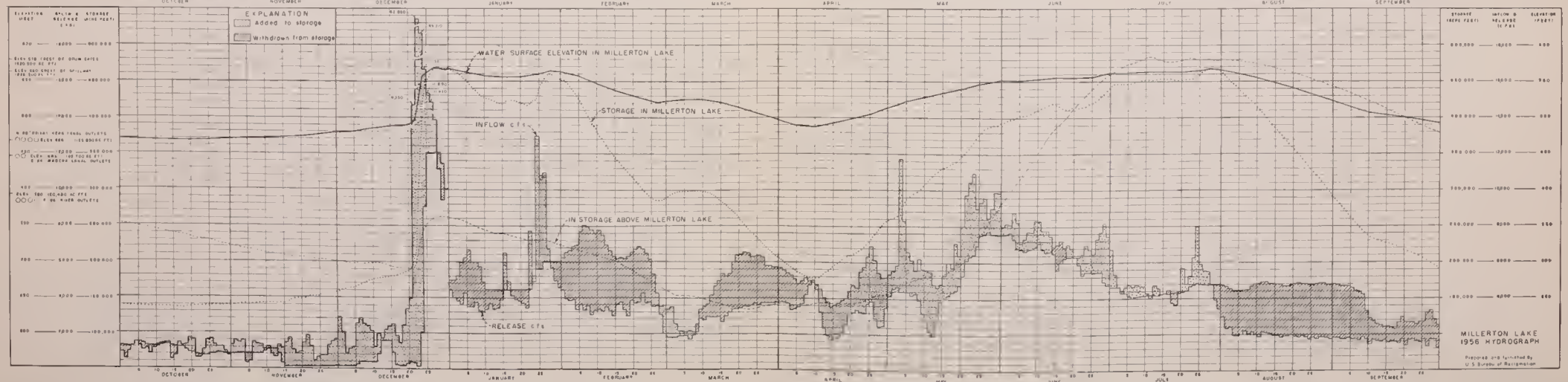


FOLSOM RESERVOIR
1956 HYDROGRAPH



MILLERTON LAKE
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