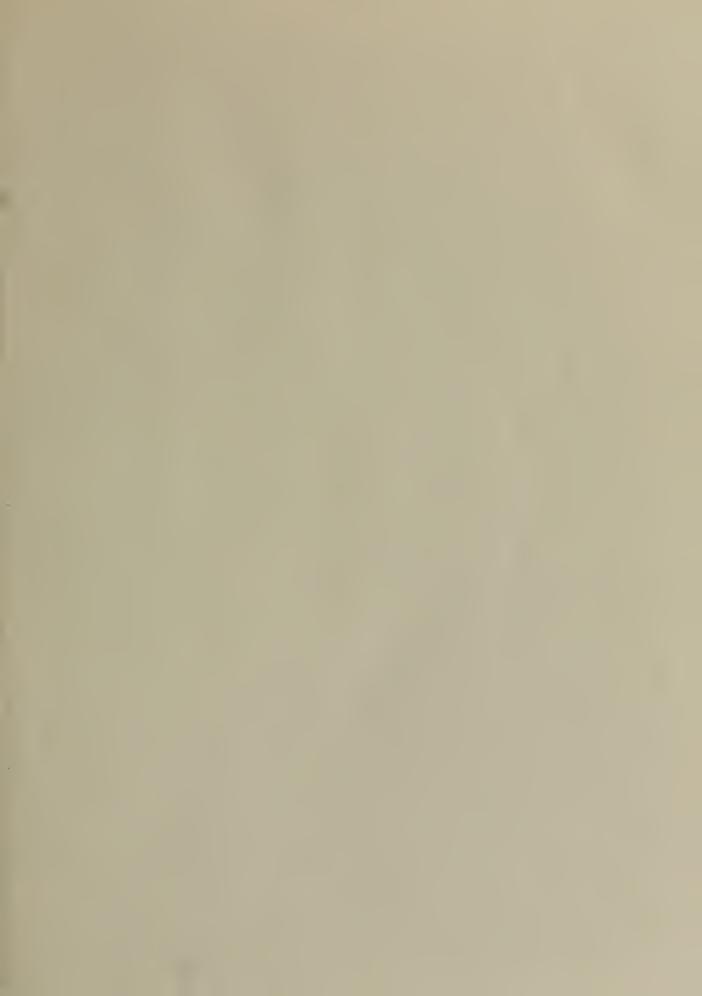
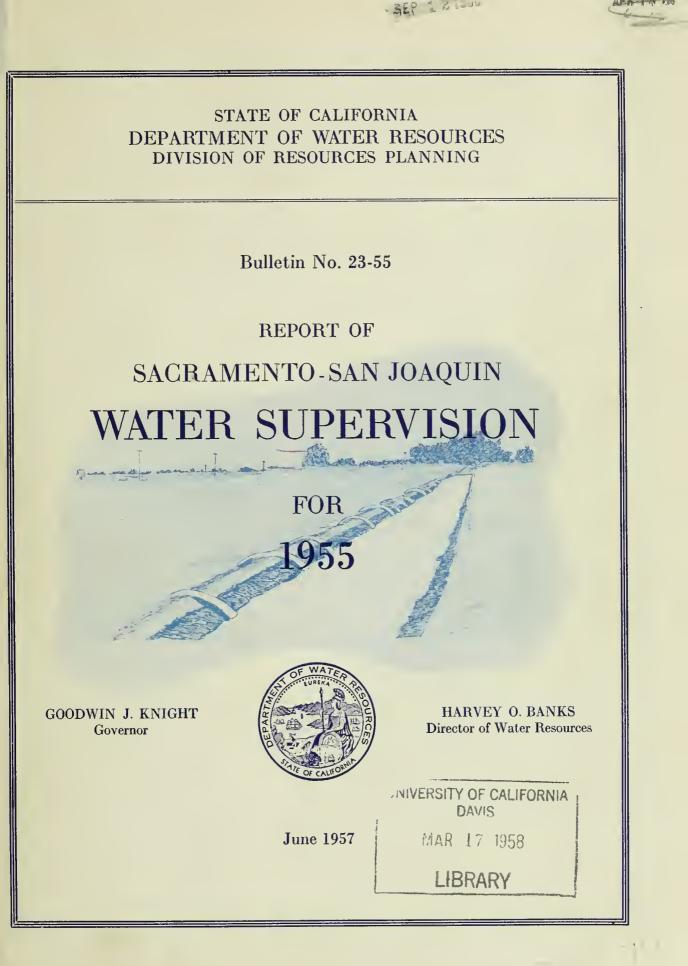
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Bulletin No. 23-55

REPORT OF

SACRAMENTO-SAN JOAQUIN WATER 'SUPERVISION

FOR 1955

GOODWIN J. KNIGHT Governor



HARVEY O. BANKS Director of Water Resources

June 1957

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U. S. Bureau of Reclamation Photograph

FOLSOM DAM

Folsom Dam, forming Folsom Reservoir on the American River, was completed during 1956 under supervision of the Corps of Engineers, U. S. Army.

Crest Length

Concrete River Section
Height
Reservoir Capacity
Elevation, crest of Taintor Gates as shown in photograph (USGS datum)

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HARVEY O. BANKS DIRECTOR GOODWIN J. KNIGHT

ADDRESS REPLT TO P. O. BOX 1079 SACRAMENTO 5 1120 N STREET GILBERT 3-4711



STATE OF CALIFORNIA Department of Water Resources sacramento

June 28, 1957

Honorable Goodwin J. Knight and Members of the Legislature of the State of California

Gentlemen:

I have the honor to transmit herewith the "Report of Sacramento-San Joaquin Water Supervision for 1955." This is the thirty-first report of a series prepared by the Department of Water Resources or its predecessors.

The report presents basic data consisting of daily mean flow in second-feet at gaging stations along the Sacramento and San Joaquin Rivers and their tributaries, the amounts of water diverted from those streams and the acreages irrigated, salinity concentration conditions in the Sacramento-San Joaquin Delta, and chemical analyses of surface waters in the Central Valley area.

A portion of the data presented herein was made available through the cooperation received from Federal and other public and private agencies. These agencies are named in the "Acknowledgment."

Very truly yours,

Harvey Banks 0. Director

ACKNOWLEDGMENT

Valuable assistance has been rendered by landowners, water users, and by public and private agencies through their executives, engineers, managers, and superintendents in the conduct of the field work and preparation of data for this report of Sacramento San Joaquin Water Supervision activities.

The Pacific Gas and Electric Company, the Sacramento Municipal Utility District, and the Modesto and Turlock Irrigation District have furnished a large number of electric power consumption records for computation of amounts of water pumped from streams.

The United States Department of Interior, Geological Survey, has extended valuable cooperation in gathering and reporting stream flow data under the Federal-State Cooperative Stream Gaging Program.

The United States Department of Interior, Bureau of Reclamation, has cooperated by providing funds under the Federal-State Cooperative Hydrographic Contract toward collection of data by the State and has furnished data on reservoir operation, stream flow, diversions, deliveries, and quality of water relating to the Central Valley Project. The Bureau of Reclamation has also provided funds necessary to maintain the regular program of salinity observations in the Sacramento-San Joaquin Delta during 1955.

The City of San Francisco Public Utilities Commission, Kings River Water Association, Central California Irrigation District, Corcoran Irrigation District, Kern County Land Company, Tulare Lake Basin Water Storage District, and the Corps of Engineers, Department of the Army, have made available stream flow data for certain San Joaquin Valley streams.

x

DEPARTMENT OF WATER RESOURCES DIVISION OF RESOURCES PLANNING

Director of Water Resources Harvey O. Banks Chief. Division of Resources Planning William L. Berry Chief, Engineering and Data Services Branch Irvin M. Ingerson Activities covered by this report are under the direction of Supervising Hydraulic Engineer Charles A. McCullough The Water Supervision Program is under the supervision of Supervising Hydraulic Engineer Vernon Bengal Assisted by Associate Hydraulic Engineer Floyd I. Bluhm Collection, correlation, and computation of hydrographic data are under the supervision of Associate Hydrographer Joseph L. Clausse in charge of stream flow group Associate Hydrographer Grant C. Ardell in charge of diversion group Field and Office Personnel Associate Hydrographer Claire H. Epperson Supervisor of Colusa Field Office Associate Hydrographer A. B. Myers Supervisor of Modesto Field Office Assistant Hydraulic Engineer Assistant Hydraulic Engineer Linwood L. Bates C. L. Chastain Robert W. Grimshaw Assistant Hydraulic Engineer Assistant Hydraulic Engineer Assistant Hydraulic Engineer Kenneth E. Lerch Walter D. McIntyre Kenneth E. Morgan Assistant Hydraulic Engineer Harry L. O'Neal Ernest G. Olsen Assistant Hydraulic Engineer Assistant Hydraulic Engineer Emil M. Padjen Assistant Hydraulic Engineer Assistant Hydraulic Engineer Assistant Hydraulic Engineer Paul E. Simpson Alfred E. Welsh Donald A. Williams Assistant Hydraulic Engineer Assistant Civil Engineer Assistant Civil Engineer John C. Etchells Arthur L. Winslow, Jr. Erle W. Danley, Jr. Assistant Hydrographer Laurence O. Grossnickle, Jr. William D. Harrison Assistant Hydrographer Assistant Hydrographer Robert A. Steel Newell E. Burtis Junior Civil Engineer Junior Hydrographer Junior Hydrographer Keithal B. Dick Norman E. Grussenmeyer Doris M. Jacinto John R. Deglow Junior Hydrographer Junior Hydrographer Engineering Aid II

Engineering Aid II Engineering Aid II Engineering Aid II Delineator Delineator

Paul M. Barnes Porter A. Towner Isabel C. Nessler

Julaine Patton Charles D. Skinkle

C. L. Emery

Kay Shibata

Steve Makis, Jr.

ORGANIZATION

DEPARTMENT OF WATER RESOURCES DIVISION OF RESOURCES PLANNING (continued)

Note: Prior to establishment of the Department of Water Resources on July 5, 1956, the following organizational positions were in effect under the Division of Water Resources:

State Engineer*

Assistant State Engineert

Harvey O. Banks

Walter G. Schulz

Carl A. Werner Supervising Hydraulic Engineer in charge of water supervision activities

E. Morris McClung John E. Meunier Al E. Lewis T. I. Rausch Jack C. Robertson James R. McConnen James J. Delaney Lentner E. Sherer Assistant Hydraulic Engineer Assistant Hydraulic Engineer Junior Hydrographer Junior Hydrographer Senior Engineering Aid Hydrographic Aid Under Engineering Aid

Henry Holsinger T. R. Merryweather Principal Attorney Administrative Officer

- * A. D. Edmonston was State Engineer until his retirement on November 1, 1955.
- * Gerald H. Jones was Assistant State Engineer until his retirement on November 1, 1955.

SACRAMENTO-SAN JOAQUIN WATER SUPERVISION

Water Supervision activities, resulting from the efforts of the first Sacramento-San Joaquin River Problems Conference and its Permanent Committee working with the former Division of Water Rights, were inaugurated in 1924. A complete description of the origin, history, and conduct of the work is found in the 1924 and 1926 Biennial Reports and in Bulletin Number 4 of the former Division of Water Rights, and in Bulletin Number 23 of the succeeding Division of Water Resources. The latter bulletin brings together all data and measurements obtained in the first five-year period, 1924 to 1928, inclusive. Annual Water Supervision reports for subsequent years are in separately bound books similar to this report.

Through use and review of all previous reports by various people errors have been noted. A tabulation of corrections for all errors found has been prepared and is included at the end of this report.

Objectives

At the outset, the objective of the work of Water Supervision in the valley floor areas along the Sacramento and San Joaquin River system was to afford relief to water users from the difficulties of obtaining irrigation supplies occasioned by uncoordinated diversions during years of substantially subnormal runoff. The situation called for voluntary regulation of diversions in order to alleviate as far as possible the damage from the serious shortages in the water supplies needed for irrigation, municipal consumption, salinity control in the Sacramento-San Joaquin Delta, and navigation purposes. Equitable coordination of diversions was accomplished primarily through the Water Supervision program.

There is no agreement among the water users under which a watermaster might distribute the natural water supply equitably to those entitled to receive it, but it appears inevitable that such an agreement, embracing a definite schedule of relative water rights, will be developed. Its realization will require, however, reliable data, covering a long period of years, on the actual diversions and uses of water, stream flows, stream accretions, and salinity encroachment into the Sacramento-San Joaquin Delta. Looking toward that end, it has been the objective of the Division (now Department) of Water Resources through its Water Supervision work, to collect and record all of the basic hydrographic data essential to the formulation of an intelligent and practicable agreement.

Scope of Water Supervision Work

The work of the Sacramento-San Joaquin Water Supervision program is concerned mainly with the gathering of basic data relating to water supply and water utilization in the Sacramento and San-Joaquin Valleys. The work consists of field measurements and observations and office computations to determine and tabulate the daily or monthly quantities of stream flow, accretions, diversions, and use of water. The work also includes maintaining the Delta salinity observation program; cooperation with and assistance to water users and agencies and furnishing hydrographic data in connection with individual problems of water supply and water utilization; and assistance with hydrographic activities of cooperating public and private agencies.

The field activities include measurements of (1) flow in streams and drainage channels, (2) the amounts of water returned to natural channels, through drainage plants or gravity drains, and (3) the amounts of water diverted and collection of records of use by each water user. An annual census and mapping of irrigated acreages is also obtained.

The office work comprises mainly the assembly, computation, and analysis of Hydrographic and other data collected during the season for presentation in the annual report of Water Supervision. This report contains the basic records of water supply available to, and the water utilization by, each user of water from the streams covered in the area. The computation of stream flow, drainage, and accretions involves the conversion of the recorded daily gage records to figures showing the daily flows in second-feet and monthly runoffs in acre-feet. The computation of the amounts of water diverted by each water user involves the calibrating and rating of suitable measuring devices at each point of gravity diversion and the calibrating and rating of each diversion pumping plant. The final computations of the diversion quantities, as shown in this report, are the result of giving full consideration to all measurements and records of operation during the entire season for each individual diversion. The results of these computations are then compiled in the tabulations in this report for the purpose of giving basic records that are readily usable by all interested parties.

The area embraced by the Sacramento-San Joaquin Water Supervision work lies on the Sacramento and San Joaquin Valley floors. The area covered and its geographical relation to the Central Valley Drainage Basin are shown on Plate 1. It specifically covers all of the lands irrigated from the Sacramento River between Redding and Sacramento, including those irrigated from the Colusa Trough, Back Borrow Pit, Knights Landing Ridge Cut, and Yolo By-Pass above West Sacramento, from Lower Butte Creek and Butte Slough, from the Feather River below Oroville, from the Yuba River below Smartville, from the Bear River below Wheatland, from the Sutter By-Pass and Sacramento Slough, from the American River below Fair Oaks, from the Cosumnes River below Michigan Bar, from the Mokelumne River below Clements, from the Calaveras River below Jenny Lind, from the San Joaquin River between Friant Dam and Mossdale Bridge, from the Merced River below Snelling, from the Tuolumne River below La Grange, from Dry Creek (tributary to Tuolumne River) below Oakdale-Waterford road, from the Stanislaus River below Knights Ferry, from the Tule River below South Fork, and the irrigated areas lying on the "uplands" side of and receiving water from the San Joaquin River between Mossdale Bridge and Stockton, Old San Joaquin River, Tom Paine Slough, and from Cache Slough and other Delta sources.

The scope of work also includes the recording of the diversions and acreages irrigated by the large east-side irrigation districts (Modesto, Merced, Oakdale, South San Joaquin, and Turlock) and the diversions and deliveries by the canals of the Central Valley Project.

Records of daily flows at all the foothill gaging stations on streams entering the Sacramento and San Joaquin Valleys and at most of the valley floor gaging stations operated by State, Federal, or private agencies are collected and presented in these Water Supervision

annual reports. The specific degree of cooperation by these agencies with the Water Supervision function is detailed in footnotes on the tables contained in this report. Records of salinity in the Sacramento-San Joaquin Delta and records of analyses of water samples taken at many locations throughout the Central Valley are also presented in these reports.

In accordance with the provisions of Contract No. 55-CA-22 between the Division of Water Resources and the U. S. Bureau of Reclamation, the daily mean flows at 15 stream flow stations, and the diversions by reaches, from the main streams and tributaries in the Sacramento and San Joaquin Valleys were transmitted monthly to the Regional headquarters of the Bureau of Reclamation.

Trial Water Distribution Program

A "Memorandum of Understanding Relating to a General Approach to Negotiations for Settlement of Water Diversions from the Sacramento River and the Sacramento-San Joaquin Delta with the Objective of Avoiding Litigation" was entered into on July 7, 1952, by the Bureau of Reclamation, the Sacramento Valley Water Users Committee, and the State of California. The objective was an amicable settlement of nearly 40 years contention over rights of various diverters along the Sacramento River and Delta channels, and the added complications which were attributable to construction and operation of the Central Valley Project by the United States.

Studies made under the 1952 agreement indicated that upstream from the latitude of the City of Sacramento, a diversion schedule should be tentatively established and tested by trial distribution, and detailed observation and recordation. Accordingly an "Agreement for Trial Distribution of Water of the Sacramento River during 1954" was worked out between representatives of the Bureau of Reclamation, the State, and diverters of more than ninety per cent of the water diverted from the Sacramento River. Operation under the agreement began in March 1954, with the proviso that the water rights to use of Sacramento River water would not be affected, and that data collected would be for information purposes only.

In September 1954 the Sacramento River and Delta Water Association was formed as successor to the Sacramento Valley Water Users Committee to include water users in the Delta. This newly formed group was instrumental in the formulation of the "Sacramento River and Delta Trial Distribution Agreement for 1955" and in coordinating the activities of the Sacramento River and Delta water users in their relation to the trial water distribution program.

It is anticipated that information gained from testing trial diversion schedules will aid in developing a comprehensive diversion schedule which will be satisfactory to all interests without recourse to litigation.

During 1955 monthly reports of stream flow and diversions were made in accordance with the terms of the "Sacramento River and Delta Trial Water Distribution Agreement for 1955." A summary report for the season was also published in January 1956 under the terms of this agreement.

The activities under the 1955 trial distribution program concerning the collection of additional data on stream flow, diversions, accretions, and return flows performed by

the Water Supervision function were financed by funds furnished by the Water Project Authority under a service agreement with the Division of Water Resources.

Description of Summary Tables

A comprehensive summary and inventory of the stream flows, diversions, and accretions by months in acre-feet for the 1955 calendar year, are contained in Tables 4, 5, and 6. Table 7 presents a summary of the inflow to and diversions from the Sacramento-San Joaquin Delta. The daily flows in second-feet at the various gaging stations and the monthly diversions in acre-feet by individual points of diversion are presented in other tables in this report.

Tables 4, 5, and 6 present summaries by months of: (1) flows in acre-feet at each gaging station along the main streams, drain canals, and by-pass channels from which diversions are measured in the Sacramento and San Joaquin Valleys, (2) flows in acre-feet at gaging stations on tributaries or distributaries of the main stream channels, (3) total diversions in acre-feet in reaches between gaging stations on the main stream channels, and (4) un-measured accretions in acre-feet as computed for each of the reaches. 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. An accretion with a negative sign indicates a net outflow or loss.

Table 7 presents summaries by months of: (1) flows in acre-feet at gaging stations on atreams tributary to the Sacramento-San Joaquin Delta, (2) water supply derived from direct precipitation on the Delta area, (3) estimated consumptive use in the Delta area derived from unit consumptive use data applied to the land use survey made in 1955, (4) diversions in acre-feet exported from Delta channels to areas outside of the Delta Uplands, and (5) diversions in acre-feet to the Delta Uplands.

RUNOFF AND WATER SUPPLY

The streams entering the Central Valley on the north and east produce the principal runoff to the valley. The runoff is derived from rainfall occurring each winter and spring season principally from December to April, from snowmelt occurring during the spring and summer seasons from March through June, and a combination of runoff from perennial tributaries and released stored water during the summer and fall seasons.

During the summer irrigation season, variations in flow of the streams on the valley floor are caused (1) by the combination of diversions from the streams for irrigation and of accretions to the streams from both direct surface drainage and seepage from ground water, and (2) by releases of stored water for irrigation, navigation, salinity control, and the generation of electric power.

Flood flows in the valley floor channels are caused by runoff from rainfall and melting snow in the mountain areas in excess of mountain reservoir capacities, and by rain storm runoff from the vast area of minor foothill watersheds and valley floor lands. Some

incidental flood control is accomplished by reservoirs in many of the tributary watersheds including those of the Sacramento, Feather, Yuba, Stanislaus, Tuolumne, Merced, and San Joaquin Rivers. The extent of the flood flows in 1955 is given by the tabulations of daily stream flows, Tables 10 through 175.

Floods of 1955

During the week preceding Christmas 1955, northern and central California was subjected to one of the greatest floods in the State's history of recorded stream flow. On many streams the peak discharges are believed to have been greater than the legendary floods of 1861-62. The magnitude of the flood crests as determined by the U. S. Geological Survey are given in the following tabulation.

Stream and Station	Date and in Secon of Previo	d-Feet		nd Crest ond-Feet 5 Flood
Feather River near Oroville	3-19-07	230,000	12-23-55	203,000
Yuba River near Smartville	3-26-28	120,000*	12-23-55	160,000*
Cosumnes River at Michigan Bar	11-18-50	27,600	12-23-55	42,000
Mokelumne River at Woodbridge	11-22 - 50	27,000	12-24-55	23,000
Stanislaus River below Melones	11-21-50	49,500	12-23-55	62,800
Kaweah River near Three Rivers	11-19-50	52,000	12-23-55	80,700
Tule River near Porterville	11-19-50	25,500	12-23-55	24,200

* Flow estimated from sum of flows of Yuba River at Englebright Dam and Deer Creek near Smartville.

The flooding resulting from levee breaks caused the loss of at least 67 lives and damage to public and private property approaching \$200,000,000. However, the completion within the last five years of large scale flood control works did much to minimize or prevent damage in many areas. Folsom Dam on the American River, Pine Flat Dam on the Kings River, and Isabella Dam on the Kern River controlled the 1955 floods to manageable releases. A report, "Flood Flows and Stages 1954-1956" dated 1957 gives a detailed description of the storms and of the flood conditions which resulted.

Many current meter flow measurements were made by Water Supervision personnel and by cooperating agencies to determine crest flow values. Where flooding prevented access to some gaging stations, it was necessary to determine crest flows by slope-area measurements and by log-log plottings of flow-stage relations. A more detailed picture of the flood flows of December 1955 may be seen in tabulations of daily stream flows, Tables 10 through 175. Precipitation

In the Central Valley of California, direct precipitation is a negligible source of water supply for growing crops during the late spring, summer, and fall seasons. During March and April, however, rain storms substantially reduce the demand for irrigation diversions, and are one of the main factors affecting the variations in demand in the same month from year to year.

Table 1 presents records of the monthly precipitation in inches at representative valley floor rainfall stations. The corresponding computed normal precipitations for each

month based on the 50-year period 1905-1955 are also shown. The monthly precipitation figures were obtained from U. S. Weather Bureau records.

Runoff Comparisons

In order to compare runoff conditions occurring from year to year for a particular stream, it is first necessary to compute the mean runoff for that stream over a long period of years. This mean runoff is then assumed to be the normal with which the runoff for any one year or season may be compared. Since conditions of natural or unimpaired runoff are affected by man-made impairments to the flow such as diversions and storage, runoff comparisons are made from a computed natural runoff. Natural runoff at foothill gaging stations is computed from measured (actual) runoff by allowing for diversions, importations, or storage development above the point where the flow is measured. The runoff or water year is considered to be the period October 1 through September 30. Runoff comparisons in this report are based on percentages of normal determined for the 50-year period October 1905 through September 1955.

The runoff for each month of the 1954-55 water year in each of the major streams tributary to the Sacramento and San Joaquin Valleys in per cent of normal for the 50-year period is presented in Table 3, "Monthly Runoff in Per Cent of Normals."

A comparison of the unimpaired October through September flows for the period 1920-1955, in the major streams tributary to the Sacramento and San Joaquin Valleys in per cent of the 50-year normal is presented in Table 2 entitled "Seasonal Runoff in Per Cent of Normals." Following is a summary of the 1954-55 unimpaired runoff as shown in Table 2.

Stream and Station	Percentage of 50-year Normal
Sacramento River at Red Bluff	70
Sacramento River at Sacramento	63
San Joaquin River below Friant	66
San Joaquin River near Vernalis	61
Sacramento and San Joaquin Rivers flow to the Delta	62

Comparisons with other years indicate that the water supply available during the 1955 season was about two-thirds of normal in the Sacramento and San Joaquin Valleys. Observations of water utilization and the amounts of residual flows in the streams reaching the Delta in the 1955 growing season indicated that the demands for irrigation and salinity control in the Delta would have exceeded the residual from the natural flow supplies. The releases of stored water from Shasta Lake and Folsom Reservoir were of primary importance in maintaining satisfactory flows and water quality conditions in the major portion of the Delta. <u>Central Valley Project Reservoir Operations</u>

The operations of the following three reservoirs, Shasta, Folsom, and Millerton are under jurisdiction of the United States Bureau of Reclamation.

Shasta Lake on the Sacramento River above Redding was first used to store water for Irrigation use during the winter of 1943-44 and releases for supplemental irrigation water along the Sacramento River commenced in the late spring of 1944. The release of water from the Lake since 1944 has substantially altered the regimen of flow of the Sacramento River and in many respects greatly benefited conditions along that stream. However, it has also created added diversion and drainage problems.

Folsom Reservoir on the American River was constructed under contracts supervised by the Corps of Engineers, U. S. Army. Work was begun on October 30, 1948, and completed during 1956. Upon completion the dam and reservoir were transferred to the Bureau of Reclamation for operation and maintenance and integration into the operation of the Central Valley Project under provisions of Public Law 356, enacted by Congress on October 14, 1949.

Although not completed, Folsom Reservoir was used for storage of water beginning in the spring of 1955. During the flood of December-January, 1955-56, the dam was capable of impounding nearly its full capacity and thus prevented possible flooding of a large part of the metropolitan area of Sacramento, and the Sacramento-San Joaquin Delta. Folsom Dam also was operated during 1955 to regulate releases for power generation and other uses in the Central Valley Project.

Millerton Lake (Friant Reservoir) on the San Joaquin River near Friant was first used to store water for irrigation use during the winter and spring of 1943-44 and the first releases for supplemental irrigation water occurred during 1944. Friant Dam was operated during 1955 to divert water into Friant-Kern and Madera Canals, and to regulate releases in coordination with deliveries through Delta-Mendota Canal.

Reservoir Data. Shasta Lake was created by a gravity concrete dam on the Sacramento River 528 feet high above stream bed, located 13 miles upstream from Redding. The gross capacity of the reservoir is 4,500,000 acre-feet, of which a space of 4,000,000 acre-feet is available for the active storage of water and 500,000 acre-feet of space is used to create head for the generation of power. The maximum flood control reservation is 1,300,000 acrefeet during flood season. There is sufficient water to fill the entire storage capacity in all years of normal or greater than normal runoff above the dam. Water from the lake is conveyed through the Sacramento Valley in the channel of the Sacramento River. Shasta releases are reregulated by Keswick afterbay which has a storage capacity of 24,000 acre-feet.

Folsom Reservoir, on the American River, was formed by a gravity concrete dam, 340 feet high above stream bed, and located about 20 airline miles northeast of Sacramento. The gross reservoir capacity is 1,010,300 acre-feet with a maximum allocation of 400,000 acre-feet for flood control. Folsom releases are reregulated by Nimbus afterbay which will also act as a diversion dam for water flowing in the Folsom north and south canals. The Nimbus afterbay is called Lake Natoma.

Millerton Lake, on the San Joaquin River, was created by a gravity concrete dam about 296 feet high above stream bed and is located at the base of the foothills about 20 miles northeast of Fresno. The gross capacity of the reservoir is 520,000 acre-feet, of which about 434,000 acre-feet is usable storage above the Madera Canal outlets, the lower of the two canals diverting from the reservoir. The major portion of the water from Millerton Lake is conveyed through the Madera and Friant-Kern Canals to lands north and south of the San Joaquin River in Madera, Fresno, Kings, Tulare, and Kern Counties.

<u>Shasta Lake Operation - 1955</u>. Shasta Lake was designed to: (1) furnish water for irrigation in the Sacramento and San Joaquin Valleys, including the Sacramento-San Joaquin Delta area, (2) provide salinity control in the Delta by maintaining a flow in the lower Sacramento River sufficient to repel the intrusion of salt water from Suisun Bay, (3) control floods on Sacramento River, (4) provide sufficient depths for navigation on the Sacramento River between Sacramento and Chico Landing, and (5) generate hydroelectric power.

Since 1944, including 1955, the quantity of water in storage in Shasta Lake has been sufficient to afford releases (1) to facilitate irrigation diversions by maintaining higher river levels along the Sacramento River, (2) to sustain minimum flow for navigation of approximately 5,000 second-feet upstream from Knights Landing, (3) to supplement irrigation supplies in the Delta area below Sacramento, (4) to control salinity, and (5) to supply water for exportation via the Delta-Mendota and Contra Costa Canals. The Delta Cross Channel near Walnut Grove was operated during 1955 allowing approximately 3,000 second-feet of Sacramento River water to be transferred into the San Joaquin portion of the Delta. The transfer of Sacramento River water through the Cross Channel and other existing channels was sufficient to allow approximately 3,200 second-feet of water for exportation by the Delta-Mendota and Contra Costa Canals during the peak of the season, and aided in maintaining the stream flow out of the Delta into Suisun Bay sufficient to hold the line of saline concentration of 1000 ppm of chlorides to the lower end of the Delta.

The daily mean second-foot flows into Shasta Lake during 1955 are presented in Table 14. These inflows to the reservoir are representative of the amounts of water that would have been flowing in the Sacramento River at the dam site if the dam had not been built. The inflow figures have been computed by combining the effects of daily change in storage, reservoir evaporation, releases, and spill. The inflows as measured at gaging stations on the major tributaries to the reservoir are presented in Tables 10, 11, 12, and 13.

A tabulation of the daily amounts of water in storage in Shasta Lake during 1955 is presented in Table 15. The daily mean second-foot flows as measured below Shasta Dam at the United States Geological Survey Gaging Station at Keswick are presented in Table 16. The flows at the Keswick station are the same as the releases from Shasta Lake except for daily regulation by Keswick Reservoir and the amounts of inflow between the station and Shasta Dam. The amounts of this inflow are small during the irrigation season, so that the average daily flows at the gaging station are nearly the same as the releases from the reservoir during that period.

A chart depicting the operation of Shasta Lake for 1955, as prepared by the U. S. Bureau of Reclamation, giving the inflows to the lake, the amounts released, the water surface elevations, and the amounts of water in storage, is shown on Plate 2.

Folsom Reservoir Operation - 1955. Folsom Reservoir was designed to store water for irrigation and flood control, and to generate hydroelectric power. The computed daily mean second-foot inflows to Folsom Reservoir during 1955 are presented in Table 94. The inflow figures have been computed by combining the effects of daily change in storage,

releases, spill, pumping, and evaporation. These inflows are representative of the amounts of water that would have been flowing in the American River at the dam site if the dam had not been built.

The daily amounts of water in storage in Folsom Reservoir during 1955 are listed in Table 95. The daily mean second-foot flows as measured below Folsom Dam at the United States Geological Survey gaging station at Fair Oaks are the same as the releases from Folsom Reservoir except for daily regulation by Nimbus Dam and the amounts of inflow between the station and Folsom Dam. The amounts of this inflow are small during the irrigation season, so that the average daily flows at the gaging station are nearly the same as the releases from the reservoir during that period.

A chart depicting the operation of Folsom Reservoir for 1955, as prepared by the U. S. Bureau of Reclamation, giving the same data as are shown by the chart for Shasta Lake, is also shown on Plate 2.

<u>Millerton Lake Operation - 1955</u>. Millerton Lake is used for storage of water for flood control and irrigation purposes. The computed daily mean second-foot inflows to Millerton Lake during 1955 are presented in Table 123. A daily tabulation of the amounts of water in storage in the lake during 1955 is presented in Table 124. The daily mean secondfoot flows, as measured at the United States Geological Survey gaging station below Friant, are presented in Table 125. These flows are the same as the releases from Millerton Lake except for the amounts of inflow and pump diversions between the station and Friant Dam. A chart depicting the operation of Millerton Lake for 1955, as prepared by the U. S. Bureau of Reclamation, giving the same data as are shown by the chart for Shasta Lake, is also shown on Plate 2.

During the 1955 irrigation season, water stored in Millerton Lake was released into the Madera Canal, the Friant-Kern Canal, and into the channel of the San Joaquin River. The quantities of diversions into the Madera and Friant-Kern Canals are shown in Table 203. The regulated releases flowing down the San Joaquin River served not only the irrigation requirements of the lands along that stream above the head of the Gravelly Ford Canal, but also the requirements of the numerous diversions below that point to Temple Slough in coordination with the deliveries of water through the Delta-Mendota Canal.

Primary Irrigation Supplies

The flows onto the valley floor during the summer season through the major streams are considered to be the primary water supplies for irrigation. This primary water does not include supplies available for irrigation in the lower reaches of the streams resulting accretions, irrigation return, and drainage. The amounts of primary water available for irrigation in the Sacramento Valley are given in the flow tabulations for those gaging stations located at the edge of the valley floor.

In the San Joaquin River service area, primary water supplies are almost entirely diverted from the upper reaches of the Stanislaus, Tuolumne, and Merced Rivers by the large irrigation districts, and from the San Joaquin River at Friant Dam by the Friant-Kern and

Madera Canals. These upper diversions from the Stanislaus, Tuolumne, Merced, and San Joaquin Rivers are included in Table 203. Primary regulated water supplies in the San Joaquin River for irrigation below Friant are measured at the San Joaquin River gaging station below Friant, Table 125. These latter regulated water supplies are almost entirely diverted in the vicinity of Mendota.

Inflow to Sacramento-San Joaquin Delta

The inflow to the Sacramento-San Joaquin Delta is measured at gaging stations on major tributary streams around its perimeter. The monthly flows in acre-feet at each of the inflow stations and the total measured inflow to the Delta are summarized in Table 7. Accretions to Stream Flow

The amount of total accretion along any stream reach is the summation of the amounts of measured inflows plus the amounts of unmeasured accretions, as shown in Tables 4, 5, and 6. These accretions are made up of measured flows from surface streams and drains, and of other flows, not susceptible to direct measurement such as those from minor ephemeral streams, from seepage return of percolated irrigation water, and from escaping underground water normally present as the result of percolated rainfall on the valley floor. Because of the large quantities these accretions are of major importance as available irrigation supplies.

During the summer season, a large portion of the accrete water is derived from upstream irrigation returning to the streams either by surface drainage or by percolation. Throughout the year, along certain reaches of the stream, the flows are augmented by outflows from seepage of the natural ground water. This portion of the ground water, which is independent of irrigation as a source, is replenished from two other sources: (1) rainfall on the valley floor, a portion of which percolates to the water table during periods of abundant precipitation, and (2) return of bank storage during low flow conditions following periods of flood-flow conditions.

Sacramento Valley Accretions. In the Sacramento Valley all of the accretions to natural and regulated flows, which are not diverted on lands north and west of the Sacramento Delta, flow into the Delta and are available for use in that area. Practically all of the summer accrete flows in Colusa Trough, Back Borrow Pit, Knights Landing Ridge Cut, and Yolo By-Pass are return waters derived from diversions from the Sacramento River. Since the Sacramento River is the main stream through the Sacramento Valley, the accretions to that stream include substantial amounts of return water from irrigated areas served by water from other sources, particularly the Feather River. A large part of the summer return water flows reaching the Sacramento River through the Butte Slough Outfall Gates (Mile 84.0L) and from Sutter By-Pass thr ugh Sacramento Slough (Mile 21.2L) are of Feather River origin.

Along the Feather River during years of subnormal water supply, practically all of "h primary resulated water is diverted upstream from, or at, the Sutter-Butte Canal Company diversion dam, yet accretions accumulate below that point in amounts sufficient to afford a limited supply for other diversions.

Table 4 is designed to give a summary not only of monthly flows measured on the Supremente Valley flow, but als the proputed monthly amounts of accretions (or losses, as

shown by a minus sign preceding the figure) occurring along each reach of each stream between gaging stations. At the end of each series of data for one stream as shown in Table 4, there are summations of diversion and accretion quantities.

In order to compare 1955 season conditions along the Sacramento River with those of previous years, the following tabulation gives the seasonal accretions, July through September, in per cent of simultaneous diversions. The accretion used in computing the per cent of diversion figure was obtained by taking the total unmeasured accretion, Red Bluff to Sacramento, from Table 4 and adding to this total the measured flows of the drainage pumping plants of Reclamation Districts 70, 108, 787, 1000, 1500, and the return flows of Colusa Basin Drain including Knights Landing Ridge Cut and Sycamore Slough.

Comparative seasonal Accretion Percentages - 1946-1955

Sacramento River - Red Bluff to Sacramento

Year	Accretions in per cent of Diversions* July through September
1946	51
1947	52
1948	62
1949	58
1950	63
1951	57
1952	52
1953	49
1954	48
1955	56

* Excludes City of Sacramento municipal diversion.

Examination of the accretion percentages indicates that the accretions vary within a range of 15 per cent of diversions. No definite correlation has been found between these accretion percentages and the per cent of normal of seasonal runoff. Similar percentage figures for years prior to 1946 are presented in the 1953 Water Supervision Report.

San Joaquin Valley Accretions. The summer and fall season stream flows in the lower San Joaquin River and its tributaries on the valley floor consist mainly of accrete flows derived, to a large extent, from irrigation water returning to the stream channels by way of percolation to the ground water and ground water seepage to the channels. The exceptions to this condition are on the Tuolumne and Stanilaus Rivers where irregular releases for power generation below upstream diversion points further augment the flows.

The channels of the Stanislaus, Tuolumne, and Merced Rivers in their westward flow from the foothills are confined by bluffs rising from 10 to 50 feet to the predominant level of the valley. The plains areas are intensively irrigated with regulated gravity water supplies derived from the upper reaches of the same streams. Thus, an abundant water supply in normal years, a deep and permeable soil, and the entrenched river channels are all conducive to relatively steep slopes of the ground water table toward the rivers and the consequent high rate per mile of accretions to the stream flow.

The channel of the San Joaquin River between Friant and the valley trough near Mendota is confined between relatively steep bluffs rising 10 feet to 100 feet. The plains area along the south side of this reach is intensively irrigated with Kings River water through the Fresno Irrigation District distribution system. On the plains along the north side of this reach in Madera County, irrigation water is derived mainly from ground water, except for occasional parcels served with pumped river water or by gravity supplies from Fresno River. In general the elevation of the ground water plane on the south side of the San Joaquin River is above the river bed and along the north side it is below the bed. Consequently, there are accretions from the south and losses to the north along the central portion of this reach of the San Joaquin River. The magnitude and importance of these accrete waters in the San Joaquin Valley as a water supply is brought out in Table 5.

The Tule River debouches onto the valley floor in the vicinity of Porterville through a shallow meandering channel. The channel crosses an alluvial fan made up of unconsolidated sediments with high permeability which accounts for the heavy channel losses along Tule River as shown in Table 6.

<u>Surface Accretions to Delta Lowlands Channels</u>. The quantities of accretions to Delta Lowlands channels have been computed from periodic measurements and gage height observations of the gravity drains, and from pump tests and power records of the drain plants. At some of the larger gravity drains water stage recorders have been installed and the flow computed as for a stream gaging station. Table 7 shows a summary of the amounts of accretion to the Delta area. These accretions are considered as part of the water supply to that area. The records of total accretions are not complete for the season because some of the records for the Trial Water Distribution program were not initiated until May or June of 1955. Stream Flow Records

The records of 159 gaging stations for the 1955 season are included in this report. Of this total, 66 stations were maintained, operated, and rated, and the flows computed by the Division of Water Resources. Records for the remaining stations were furnished by cooperating agencies. The location of each station is shown on Plate $\frac{1}{3}$ in the pocket on the back cover of this report. A brief description of each station is given in the footnotes at the bottom of the stream flow data table.

Water surface elevations at any time at certain gaging stations may be estimated by using Table 9 coupled with the appropriate stream flows in second-feet as shown in the stream flow tables. From the stream flow table, the flow on any desired day is interpolated into the specific station's rating table in Table 9 to give an average gage height (or elevation) of the stream's water surface for that day.

Preliminary Data from Cooperating Agencies

Some of the stream flow records submitted by cooperating agencies and included in this report must be considered "Preliminary Data" since this report is published prior to final preparation of the data for publication by those agencies. This condition is particularly true with respect to some data furnished by the U. S. Geological Survey.

Delta Tidal Cycle Measurements

During the 1955 irrigation season a series of tidal cycle current meter measurements were made by the Division of Water Resources for the purpose of determining the net resultant

of the tidal flows in both direction and magnitude in certain channels of the Delta. Each of the measurements was made over a period of approximately 30 hours in order to encompass a complete cycle of four tides.

The measurements were made at the following nine sites, locations of which are shown on Plate 3.

- 1. Delta Cross Channel near Head
- 2. Georgiana Slough at Walnut Grove
- 3. San Joaquin River at Brandt Bridge
- 4. Middle River below head of Salmon Slough
- 5. Salmon Slough near Head
- 6. Dutch Slough at Burroughs Ranch
- 7. Old River at Clifton Court Ferry
- 8. Old River below Victoria Canal
- 9. Three Mile Slough near San Joaquin River

Measurements of the tidal affected flows in the Delta channels were made by the conventional boat and tagline method. Flow measurements were made at approximately hourly intervals over the duration of the tidal cycle.

The results of the measurements are tabulated in the following table. The dates and times shown indicate the duration of each of the measurements and the period for which the mean flow was computed. These flows were obtained by plotting a hydrograph from each of the hourly measurements made over the four phases of the cycle and planimetering the area under the hydrograph to obtain the mean ordinate. The beginning and end of a complete tidal cycle was determined by plotting the periodic observations of the local staff gage on the same graph. At some of the stations, it was possible to conveniently cover five tidal phases. In these cases, the mean flow for two complete cycles could be computed in the manner described by dropping off the first phase and adding the last. The mean flows shown in the table are the average flows for two complete cycles for those stations at which measurements were made over five tidal phases. Mean daily amounts of inflow and diversions in the Delta have been included in the table to assist in evaluating flow conditions which existed at the times of the various measurements.

Diversions by the Tracy Pumping Plant began in 1951, and by 1953 diversions had increased to as high as 3000 second-feet. During 1954 and 1955 maximum diversions were well over 3300 second-feet. This increased draft at the southern end of the Delta and the transfer of Sacramento River water across the Delta to the Tracy pumps resulted in a change in the normal pattern of flows in Delta channels which existed prior to 1951. The direction of net flow for the period of each measurement is indicated on Plate 3. The magnitude of the net flow is indicated in the following table without sign because varying conditions of inflow and diversions may change the direction of net flow in several of the Delta channels.

SACRAMENTO-SAN JOAQUIN DELTA TIDAL CYCLE MEASUREMENTS - 1955

Flow quantities in cubic feet per second

				Inflow						
Station (Location)	Mean Cyclic <u>Flow</u>	Period Date 1955 Time	sions	Sacramento River at Sacramento	River nr.					
Delta Cross Channel at Head	3236	6/14 12:19 6/15 2:00		11800 11500	1810 1490					
Georgianna Slough at Walnut Grove	2083	6/14 12:00 6/15 1:30		11800 11500	1810 1490					
San Joaquin River at Brandt Bridge	97	7/26 8:50 7/27 3:20		8870 8530	374 374					
Middle River below Head of Salmon Slough	28.9	8/9 1:19 8/10 2:22		9390 9410	411 389					
Salmon Slough near Head	242	8/9 1:19 8/10 2:22		9390 9410	411 389					
Dutch Slough at Burroughs Ranch	9.8	8/18 12:30 8/19 1:00		9100 8790	423 443					
Old River at Clifton Court Ferry	2523	8/25 9:00 8/26 4:25		8140 7870	389 404					
Old River below Victoria Canal	1708	8/25 8:50 8/26 4:20		8140 7870	389 404					
Threemile Slough near San Joaquin River	171	8/25 6:20 8/26 1:40		8140 7870	389 404					
Victoria Canal	8158									

Diversions from Old River and Tom Paine Slough including Delta-Mendota and Contra Costa Canals. Computed as the difference between Old River at Clifton Court Ferry and Old River 8

below Victoria Canal. Direction of flow is toward Old River.

Notes on Certain Gaging Stations

Records obtained and published in this report include 14 stations not heretofore published in this series of reports. A list of discontinued stations and newly included stations together with a repetition of notes on the Sacramento River at Sacramento, are as follows:

Discontinued Stations. The flow records of two stream flow stations were discontinued during 1955. These stations were:

Buena Vista Slough near Lost Hills, discontinued April 14, 1955

Goose Lake Slough near Lost Hills, discontinued April 14, 1955

The records for nine stream flow stations were discontinued in 1954 and are not

included in this report. These stations were:

Barker Slough near Dozier	South Fork Tule River near Success
Haas Slough near Maine Prairie	Sweeney Creek near Winters
James By-Pass (Fresno Slough) near San Joaquin	Ulatis Creek near Binghampton
Pleasants Creek near Winters	Ulatis Creek near Vacaville
Salt Creek near Winters	

Additional Stations Reported in 1955. The following 14 stations, for which data have not been previously published in the reports of Sacramento-San Joaquin Water Supervision, are included in this 1955 report.

Sacramento River above Reclamation District 108 Drain Plant Reclamation District 1000 (Pritchard Lake) Drain North Fork American River at North Fork Dam Middle Fork American River near Auburn South Fork American River near Lotus Weber Creek near Salmon Falls Folsom Lake Inflow Daily content Folsom Reservoir Bear Creek near Rumsey Owens Creek below Owens Dam Bear Creek below Bear Dam Burns Creek below Burns Dam Mariposa Creek below Mariposa Dam Duck Creek Diversion near Farmington

Twelve of the stations represent stream flow gaging station installations, one represents computed amounts for reservoir inflow, and one shows record of reservoir content. Three of the stream flow stations are maintained and operated by the Department of Water Resources. A brief description of the location, the cooperative agency involved, the drainage area where applicable, and the period of record may be found in the footnotes under the respective table of flow for each of the stations listed.

Sacramento River at Sacramento. Flows at this station below 33,000 second-feet (gage height of 10.5) are affected by tidal action. The method of computing daily mean flows in this tidal-affected range, beginning with 1947, has been radically changed. As shown in reports prior to 1947, the flows were derived from (1) the records of flows at Verona on the Sacramento River and at H Street Bridge on the American River and (2) records of diversions from and drainage to the rivers between those two upper stations and the I Street Bridge at Sacramento. The method previously used did not take into account unmeasured accretions or losses which may have occurred in the reach between Verona and I Street Bridge and in the American River below H Street Bridge.

Since 1947 and including 1955, rating of the I Street Bridge gaging station and the computations of daily mean Sacramento River flows passing Sacramento have been made by the slope-velocity method. This method requires a consideration of the gage heights recorded at the river gaging station at Snodgrass Slough (20 miles downstream from Sacramento) as well as the recorded gage heights at Sacramento. Tidal fluctuations cease above the 10.5-foot stage and the regular stage-discharge rating is used for these higher flows. The technique involved in rating the flows by the slope-velocity method is described in previous Water Supervision reports.

Tide Gages

There were 34 continuous recording tide gage stations located on the Delta channels in operation during 1955. The Division of Water Resources operated and maintained 25 of these tide gages. The remaining 9 were operated by Federal agencies. A list including location of these stations is given in Table 176 and the locations are shown on Plate 3.

USE OF WATER FOR IRRIGATION

The prevailing warm termperatures and a prolonged frost-fee period during the summer season in the Sacramento and San Joaquin Valleys favors the profitable production of

a wide variety of marketable crops in large quantities. The availability of irrigation water during the dry summer season affords continuous growing conditions necessary for the many crops.

The major irrigated crops in the Sacramento Valley include rice, alfalfa, orchard fruits, nuts, grapes, hops, truck crops, field crops, and pasture grasses; in the Delta area they include alfalfa, asparagus, sugar beets, orchard fruits, corn, and truck crops; and in the San Joaquin River and tributaries service area they include grapes, nuts, orchard fruits, cotton, alfalfa, truck crops, corn, grain, flax, and pasture grasses.

Irrigation Diversions

Measurements and records of diversions in 1955 have included the points of diversion on the valley floor numbering 1455 along the following streams:

Stream	No. of Diverters
Sacramento River	350
Colusa Trough (above Colusa-Williams Highway Crossing)	38
Back Borrow Pit (extension of Colusa Trough below Colusa- Williams Highway along back levees of R.D. 108 & 787)	42
Knights Landing Ridge Cut	11
Yolo By-Pass	8
Lower Butte Creek and Butte Slough	41
Sutter By-Pass and Sacramento Slough	75
Feather River	52
Yuba River	13 .
Bear River	3
American River	18
Cosumnes River	35
Mokelumne River	81
Calaveras River (including Mormon Slough)	164
Delta Uplands	183
San Joaquin River (between Vernalis gaging station and Friant Dam)	134
Fresno Slough and James By-Pass	8
Merced River	81
Tuolumne River	45
Dry Creek (Tributary to Tuolumne River)	12
Stanislaus River	36
Tule River	10
Exportations from Delta by Central Valley Project and City of Vallejo	3
Canal Diversions by Central Valley Project and Irrigation Districts along east side of valley	12
Total	1455

The approximate locations of these points of diversion are shown on Plate 3 in the pocket at the back of this report.

The monthly amounts of water diverted at the individual points of diversion along all of the streams covered by the Water Supervision work are presented in Tables 178 through 203. The monthly amounts of diversions in acre-feet by the large east-side irrigation districts from the Stanislaus, Tuolumne, and Merced rivers during 1955 are presented in Table 203. The monthly diversions in acre-feet into the Friant-Kern and Madera Canals from Millerton Lake on the upper San Joaquin River are also presented in Table 203. The monthly diversions exported from the Sacramento-San Joaquin Delta via the Delta-Mendota and Contra Costa Canals of the Central Valley Project and by the City of Vallejo are presented in Table 202. The daily diversions to the Delta-Mendota and Contra Costa Canals are set forth in Tables 174 and 175. The monthly deliveries in acre-feet from the main canals of the Central Valley Project to the various water users along those canals are presented in Table 204.

Fresno Slough and James By-Pass (also known as Fresno Slough By-Pass) normally convey excess Kings River flood flows into the San Joaquin River at a point above Mendota Dam, but during the irrigation season, San Joaquin River water is backed up through those channels by the Mendota Dam to afford irrigation supplies to the James and Tranquillity Irrigation Districts and to certain other diverters. The diversion and irrigated acreage data for these streams shown in Table 196 were furnished by the U. S. Bureau of Reclamation.

A seasonal summary of water utilization during the past ten years, 1946 through 1955, from the Sacramento River and its tributaries and the San Joaquin River and its tributaries is shown in Table 176. This table presents an overall picture of the water utilization in these areas.

In Table 205 there are shown the average monthly diversions in per cent of the seasonal for the streams in the Sacramento and San Joaquin Valleys. A summary of the monthly diversions from the Sacramento and San Joaquin Valley streams for the ten-year period, 1946 through 1955, is presented in Tables 206 through 216. Table 217 shows, for the Sacramento River only, the seasonal diversions and acreages irrigated for the period 1946 through 1955, segregated to the different river sections.

Irrigated Acreage

Toward the end of the irrigation season in 1955, as was done in previous years, a complete canvass was made of acreages irrigated from each of the points of diversion covered by the Water Supervision work. The irrigated acreages for all of the points of diversion on the streams on the Sacramento and San Joaquin Valley floors were plotted on suitable maps and are retained on file in the office of the Department of Water Resources for record. The area irrigated segregated to rice and general crops through each individual point of diversion along the streams covered in this work is presented in Tables 178 to 201 inclusive.

The following is a summary of the total acreage irrigated during 1955 in the area covered by the Water Supervision work exclusive of the acreage served by the Friant-Kern, Madera, and Delta Mendota Canals. Detailed acreage tabulations of the totals shown below may be found in Tables 178 through 201 and in Table 219.

Area	Irrigated A	Acreage-1955
Sacramento Valley Floor above Sacramento	459,893	
San Joaquin Valley Floor above Delta (including large east side I.D.)	823,141	
Delta Uplands and Tributaries	187,748	
Total area served by measured diversions		1,470,782
Sacramento-San Joaquin Delta Lowlands Area, 1955 Survey		385,743
Grand Total		1,856,525

In view of the methods of farming, which usually employ rotation of crops with summer-fallow it is probable that the acreage of land under irrigation facilities in the area covered by the Water Supervision activities excluding the areas served by the Central Valley Project Canals exceeds 2,000,000 acres.

Table 218 shows a comparison of the acreage of rice irrigated during the period 1924 through 1955 from the stream channels within the Sacramento and San Joaquin Valleys which are covered by Water Supervision work, and the total acreage of rice in California irrigated from all sources as reported by the Federal-State Crop Reporting Service. Sacramento-San Joaquin Delta

The Sacramento-San Joaquin Delta service area is considered in two parts: (1) the "Delta Lowlands" commonly called the "Delta" consists generally of lands less than five feet elevation above mean sea level. These lands for the most part consume water derived from Delta channels by subirrigation or surface application not susceptible of direct measurement. The water surface of the Lowlands has been assumed to include all water in channels affected by tidal action in both the Lowlands and Uplands and up to the lowest gaging stations on streams tributary to the Delta. The Delta Lowlands boundary is shown on Plate 4 and encompasses approximately 467,000 acres. (2) The "Delta Uplands" lie outside of and adjacent to the "Delta Lowlands" and are served by irrigation water pumped from Delta channels. Lands served by diversions below the lowest gaging stations on streams flowing to the Delta which lie outside of the Delta Lowlands boundary are also considered as Delta Uplands. The Delta Uplands area is shown on Plate 4 and comprises approximately 205,000 acres.

The location of the boundary line for the Delta service area as shown on Plate 1 was determined so as to include in the service area lands that were (1) historically referred to as the Delta area as shown in Bulletin 27 and in Sacramento-San Joaquin Water Supervision reports of the Division of Water Resources, with the exception of Reclamation District 535, just south of Sacramento, (2) within "places of use" of rights to use water from Delta tidal channels designated in appropriative water rights permits and licenses as delineated in 1952, (3) within organized districts or individual ownerships containing land with elevation less than five feet above mean sea level, and (4) served historically with water originating from Delta tidal channels.

The water supply for the Sacramento-San Joaquin Delta is measured at gaging stations on major tributary streams around its perimeter. The flows passing these stations make up most of the surface inflows to the Delta and are the supply for: (1) diversions for use on the Delta Uplands, (2) consumptive use within the Delta area, (3) exporations by the Central Valley Project via the Delta-Mendota and Contra Costa Canals and exportation by the City of Vallejo, and (4) outflow for salinity control. Rainfall on the Delta is an additional source of water supply. The total volume of water derived from rainfall is considered in this report as having been available for use in that area. It has also been assumed that the total volume of rainfall which occurred in a particular month was fully utilized during that same month.

Delta Uplands Diversions. The records in this report considered to be Delta Uplands diversions are the diversions to the uplands side of Old River, Tom Paine Slough, San Joaquin River between Stockton and Vernalis, and Cache Slough as well as diversions from tributary streams below the lowest gaging stations on those streams but outside the Delta Lowlands boundary. The diversions from the Cosumnes River below the McConnell gaging station, from the Mokelumne River below the Woodbridge gaging station, and from the Calaveras River below the Stockton gaging station are in this latter classification.

The records of these diversions are presented in the tables of diversion for their respective streams and are summarized in Table 7.

Consumptive Use of Water in Delta Area. Periodic land use surveys of the Delta have been made since 1924 and are published in the reports of Sacramento-San Joaquin Water Supervision. Prior to 1955, the last such survey was made in 1952 by the U. S. Bureau of Reclamation, but the results of that survey did not become available until after the publication of the 1952 Water Supervision Report. During 1955, land use survey presented in Table 219 (in pocket) was made of the entire Delta Service Area, both Lowlands and Uplands. Areas of the various types of crops, of classes of native vegetation, of levees and berms, of interior and exterior water surfaces, and of other nonagricultural areas were plotted on maps to a scale of 2,000 feet to the inch. Acreages of the individual crops and of other types of culture within islands or tracts were determined from appropriately delineated maps. Gross acreages of the various islands or tracts were furnished by the U. S. Bureau of Reclamation. These acreages have been determined by the Bureau of Reclamation to a high degree of accuracy from large scale aerial photographs in connection with their 1952 Delta studies. Acreages of nonagricultural areas including levees and berm, interior and exterior water surfaces, and residential areas were assumed to be the same as determined by the Bureau for 1952 except where differences were noted in 1955.

Certain crops and land uses in Table 219 which were considered as having the same rate of water consumption were grouped together under one classification as explained in column heading or in the notes at the end of each part of the table. The term "exterior water surface" signifies, in general, open water surface in uncontrolled channels of the Delta outside of the leveed islands or tracts. In contrast, "interior water surface" includes controlled channels, drains, ditches, lakes, and ponds within the leveed boundaries of islands or tracts. Table 220, "Unit Consumptive Use of Water in Sacramento-San Joaquin Delta," presents monthly unitconsumptive use factors in acre-feet per acre for crops, vegetation, and evaporation in the Delta, developed largely from experimental data. In the data and discussions presented herein, the term "consumptive use" is used in the absolute sense. It represents the amounts of water consumed irrespective of source and, therefore, includes amounts consumed from rainfall. No attempt has been made in this report to evaluate the net amounts of water consumed from Delta Lowlands channels exclusive of rainfall.

The unit consumptive use factors in Table 220 were developed from extensive experimental investigations in the Delta in 1924 and subsequent years. The factors are the same as those presented for the crops listed in Table 1 of the Division of Water Resources Bulletin 27 with the exception of corn and grain. The factors for corn and grain were modified on the basis of more recent information. Factors for irrigated pasture, levees and berms, and crops not included in Table 1 of Bulletin 27 were furnished by the U. S. Bureau of Reclamation. Factors for Tules and swamps, native vegetation, and evaporation from water surfaces were derived from a report dated January 1955 entitled, "Rates of Evaporation and Consumptive Use in the San Francisco Bay and Adjacent Areas," prepared by Dean C. Muckel and Harry F. Blaney of the U. S. Agricultural Research Service under a cooperative agreement with the Division of Water Resources. The factor for idle crop land was obtained from the 1938 Report of Sacramento-San Joaquin Water Supervision and is a revision of the corresponding factor contained in Table 1 of Bulletin 27. The figures shown are applicable to the Delta area for average conditions and do not necessarily agree with unit consumptive use factors determined for other areas in the Central Valley.

Table 221, "Consumptive Use of Water in the Delta Service Area," presents the monthly amounts of water in acre-feet consumed by various types of culture and by evaporation from open water surfaces. The quantities shown in Table 221 were computed by multiplying the acreages from Table 219 by the unit consumptive use factors from Table 220. The total water-consuming acreage of the Sacramento-San Joaquin Delta Service Area based on the 1955 survey is segregated as follows:

Annon

	Acres
Total irrigated cultivated crops, not including double- or inter-crops	573,491
Total idle lands including aquatic growths and and interior water surfaces	38,361
Total exterior channel water surfaces within Delta Area	42,168
Total Urban	20,086
Total water consuming acreage, 1955	674,106

Exportations. Exportations from the Sacramento-San Joaquin Delta are those amounts of water diverted from Delta channels and transported by canal systems or pipe lines to areas outside of the Delta for agricultural, industrial, or municipal uses.

Exportations are made from the Delta by the U. S. Bureau of Reclamation in their operation of the Central Valley Project and by the City of Vallejo. The exportations for

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Central Valley Project operation are accomplished by diverting water from Old River at the U. S. Bureau of Reclamation's Tracy Pumping Plant to the Delta-Mendota Canal and at that agency's Pumping Plant No. 1 on Rock Slough to the Contra Costa Canal. The exportations by the City of Vallejo for municipal and other uses are made by pumping water from Cache Slough.

Tables 174 and 175 present records of daily mean diversions in second-feet to the Delta-Mendota Canal and to the Contra Costa Canal. The locations of the two pumping plants are shown on Plate 4.

The exportations from the Delta in acre-feet per month by the Central Valley Project canals and by the City of Vallejo are summarized in Table 202 under the heading "Exportations."

Gross Duty of Water

The term "gross duty of water," as used in this report, is defined as being the total amount of water diverted to serve one acre of irrigated land. The gross duty for any particular period may be expressed as the amount of water diverted in acre-feet per acre irrigated, or, conversely stated, may be expressed as the number of acres irrigated per one second-foot average diversion rate. The gross duty of water includes not only the net amount of water consumed by plants in their processes of transpiration and growth, but also includes all irrecoverable losses through evaporation, percolation, and conveyance. It also includes water to maintain fresh water and warming ponds in the growing of rice and water which returns to a drainage channel to become available for reuse. Gross duty of water figures for the individual stream channels covered by Water Supervision work are given for the Sacramento and San Joaquin Valleys in Table 177.

The diversion quantities listed in this report are the gross diversions in acre-feet as measured into the distribution system at its head. The gross diversions include leakage or regulatory spills, if such occurred, from the distribution system below the point of measurement. Regulatory spills which may have been made at the point of diversion are not included in the gross diversion quantities except as otherwise noted in the footnotes under the table in which the point of diversion is listed.

SALINITY INVESTIGATIONS

The intrusion of saline water from San Francisco Bay into the channels of the Delta from which irrigation supplies are derived, is a matter of extreme importance. During 1955, Sacramento-San Joaquin Water Supervision maintained, under a cooperative agreement with the U. S. Bureau of Reclamation, a program of observations of the saline content of the water at a number of stations throughout the Delta and upper San Francisco and Suisun Bay areas which are listed in Table 223. A history of the salinity observation program has been presented in prior Water Supervision reports.

Purpose

A purpose of the salinity investigation since 1924 has been to record the occurrence and extent of salinity encroachment from San Francisco Bay into the Delta and to establish the relation between movement of salinity, stream flow entering the Delta, and tidal action.

During 1955 the continuous observations of salinity also served as an aid to the U. S. Bureau of Reclamation in determining the amounts of release from Shasta Lake and Folsom Reservoir.

Scope

The general scope of this investigation each season has been such as to insure that samples of water to be tested for salinity are taken at regular intervals at a sufficient number of stations throughout the Delta and upper Bay region so that the advance and retreat of the salinity from early summer to late fall is completely recorded. The records of samples taken during 1955 from the active sampling stations are presented in Table 224.

Plate 4 shows the location of the sampling stations and the limit of maximum seasonal encroachment of salinity into the Delta of water having 1000 parts of chloride per million parts of water for the years 1931, 1938, 1944, 1947, 1952, 1953, 1954, and 1955. Lines for 1931 and 1938 are delineated to show the limits of maximum seasonal encroachment for a low and high runoff year, respectively, prior to the operation of Shasta Lake. The lines for 1944 and 1947 are delineated to show the greatest encroachment subsequent to the operation of Shasta Lake.

The maximum salinity as recorded at the stations in 1955 is shown in Table 222. For comparative purposes, this table shows also the maximum salinity recorded at these stations in representative years before and after Shasta Reservoir operation. Only presently indicative and active stations are included in this comparison.

Salinity Bulletins

During 1955 a salinity bulletin was mailed each month to many cooperating agencies and individuals giving the results of samples taken and analyzed at four-day intervals at all stations. The figures given were the laboratory determination of the number of parts of chloride per million parts of water.

Flows Available for Salinity Control

The present method of controlling the intrusion of saline water from Suisun Bay into the Delta is to provide a rate of fresh water outflow from the Delta of sufficient quantity to neutralize the rate of intrusion of salt water. The rate of fresh water outflow to accomplish this purpose is not susceptible of measurement by the same methods used at upstream gaging stations. In September, 1954, a special 17-day continuous tidal cycle measurement of Delta outflow was made by the Division of Water Resources. The results of that measurement, which were discussed in the 1954 Water Supervision report, indicate that an estimate of the net surface outflow (including unmeasured accretions) from the Delta available for salinity control can be computed by subtracting from the total measured surface inflow to the Delta all of the demands on that supply consisting of consumptive use within the Delta area, of measured diversions to Delta Uplands, and of measured exportations to land beyond the Delta. Table 7 presents a summary of the water supply to, diversions and exportations from the Delta as measured during 1955, an estimate of the consumptive use of water in the Delta area based on the 1955 crop survey, and computed Delta outflow.

COMPLETE OR PARTIAL ANALYSES OF SURFACE WATERS

There is included in this report a tabulation of the results of complete or partial chemical analyses of samples of water taken periodically at many points within the Sacramento and San Joaquin Valleys and in the Delta during 1955. The results for each sampling point are grouped together and presented in geographical arrangement in Table 225. These results were furnished in part by the U. S. Bureau of Reclamation and in part by the Water Quality function of the Division of Water Resources as noted in the table. Results furnished by the Water Quality function were analyzed by the U. S. Geological Survey Laboratory under a cooperative agreement with the Division of Water Resources and must be considered as "preliminary data, subject to revision." The methods of collecting and analyzing these samples are appreciably different and more complex than the methods employed in determining the chloride component as part of the regular salinity observation activities in the Sacramento-San Joaquin Delta.

TABLES

TABLE 1

MONTHLY PRECIPITATION JANUARY THROUGH DECEMBER - 1955 In Inches

Station		Tom	Feb.	Man	Apr.	More	June	T]		Gent	Oat	New	Date	(The the D
Station		Jan.		Mar.		May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Shasta Dam	1955	6.32	2.59	.95	7.04	.09	.02	.06	.00	•36	.73	11.38	33.98	63.52
	Normal	11.73	11.00	7.44	4.28	2.41	1.34	.10	.22	•96	4.30	6.39	11.69	61.86
Redding Fire	1955	4.00	.88	.88	3.07	.05	.02	.00	.00	.50	.40	9.17	14.96	33.93
Station 2	Normal	8.34	6.48	5.59	2.80	1.83	.98	.06	.14	.94	2.18	4.39	7.92	41.65
Red Bluff	1955	2.96	.09	.50	1.68	.18	.26	.08	.00	1.11	.38	3.63	7.71	18.58
Airport	Normal	4.35	3.45	2.92	1.55	1.00	.49	.03	.06	.52	1.17	2.39	4.25	22.18
Orland	1955 Normal	2.22 3.57	.25 3.02	.68 2.40	2.25	.00 .56	.12 .35	.12 .02	.00 .04	.10 .32	• 32 • 86	2.67 1.81	7.71 3.60	16.44 17.83
Chico Experiment	1955	3.01	.77	.60	3.79	.12	.18	.00	.00	.20	1.02	3.08	11.71	24.48
Station	Normal	5.02	4.38	3.29	1.91	1.03	.44	.02	.05	.40	1.20	2.62	4.96	25.32
Colusa	1955 Normal	1.93 3.06	.26 2.73	.57 2.13	1.16	.12 .50	.00 .21	.00 .01	.00	.17 .23	•55 •68	1.92 1.64	7.19 3.14	13.87 15.37
Marysville	1955	3.43	1.05	.31	2.32	•35	т	T	.00	.47	•77	2.41	11.30	22.41
	Normal	4.05	3.63	2.88	1.42	•76	.24	T	.02	.23	•94	2.16	3.99	20.32
Woodland	1955	2.75	1.74	.40	2.12	.43	т	.00	.00	.89	.46	1.30	11.71	21.80
	Normal	3.54	2.96	2.21	1.11	.49	.17	T	.01	.20	.67	1.56	3.24	16.16
Folsom	1955	4.60	2.08	.25	2.92	.45	.00	.00	.00	.43	.69	*1.81	13.75	*26.98
	Normal	5.04	4.34	3.57	1.76	.84	.25	.01	.01	.25	1.02	2.30	4.24	23.63
Sacramento City	1955 Normal	3.14 4.02	1.33 3.26	.37 2.60	2.75 1.39	.67 .67	.01 .18	.00 .01	.00	•95 .24	•57 •76	1.16 1.70	12.20 3.49	23.15 18.34
Davis	1955	2.68	1.24	.40	2.17	.64	т	.00	.00	.92	.44	1.16	11.87	21.52
	Normal	3.67	3.00	2.28	1.14	.49	.16	T	.01	.18	.65	1.50	3.29	16.37
Bensons Ferry	1955	2.28	1.14	.40	2.24	.47	.00	.00	.00	.44	• 33	1.22	8.77	17.29
	Normal	3.20	2.63	2.28	1.12	.58	.15	T	T	.20	• 68	1.41	2.83	15.08
Lodi	1955	3.40	1.39	.17	3.09	.51	T	.00	.00	1.10	.13	1.21	9.45	20.45
	Normal	3.39	2.74	2.43	1.20	.58	.13	T	T	.19	.79	1.50	3.14	16.09
Antioch	1955 Normal	2.59 2.79	1.26 2.23	.92 1.81	1.40 .78	.74 .36	.00	.00 .01	.00 .01	.03 .21	.15 .51	.81 1.15	7.55 2.62	15.45 12.59
Stockton Fire	1955	3.84	1.03	.57	2.38	1.02	.00	.00	.00	.01	.12	1.30	8.42	18.69
Station 4	Normal	3.03	2.33	2.11	.99	.53	.12	.01	.00	.20	.60	1.31	2.68	13.91
Tracy Carbona	1955	2.94	.77	1.91	1.12	.83	T	.00	.00	.00	.03	•98	4.99	13.57
	Normal	1.81	1.46	1.37	.66	.41	.10	T	T	.13	.39	•78	1.65	8.76
Modesto	1955 Normal	3.61 2.29	.75 1.99	.26 1.97	2.56 .93	.46 .45	.00 .11	.00 .01	.00	.26	.02 .50	1.09 1.02	6.34 2.31	15.35 11.76
Merced Fire	1955	3.65	.67	.18	.96	1.06	.00	.00	.00	.00	.02	.57	7.71	14.82
Station 2	Normal	2.46	2.12	1.99	1.03	.44	.08	.01	.01	.12	.47	1.15	2.03	11.91
Los Banos	1955 Normal	2.80 1.80	.74 1.43	.27 1.44	.87 .73	.85 .30	.02	.00 .01	T .01	.00 .10	.03 .38	.76 .83	5.47 1.56	11.81 8.64
Fresno	1955	3.51	1.46	.07	1.47	.63	.00	т	т	.00	т	1.34	6.73	15.21
Airport	Normal	1.90	1.61	1.68	.87	.32	.11	.01	.01	.08	.51	.80	1.63	9.53

T - Trace. * - Estimated.

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

TABLE 2 SEASONAL RUNOFF IN PER CENT OF NORMALS (a) SACRAMENTO-SAN JOAQUIN RIVER SYSTEM

Pernant Pe	Water Year Ending Sept- ember 30	Sacra- mento and San Joaquin Rivers to Delta	Sacra- mento River near Red Bluff	Sacra- mento River at Sacra- mento	Feather River near Oroville	Yuba River at Smart- ville	Ameri- can River at Fair Oaks	Mokelumne River at Mokelumne Hill	laua River below	Tuolumne River near La Grange	Merced River at Exche- quer	San Joaquin River below Friant	San Joaquin River near Vernalis
1921 128 133 135 137 138 117 109 109 103 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 69 94 96 1925 93 100 92 71 91 100 112 106 104 93 82 96 1926 93 100 92 71 91 100 118 111 111 114 113 1926 65 70 68 72 69 53 62 55 50 50 1929 48 55 48 42 43 42 46 44 43 44 45 50 50 50 1930 72 75	Annual Runoff (a) Thous.		8049		4416	2320	2713	747	1160	1854	979	1762	(b) 5756
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 65 70 65 71 91 100 112 106 104 93 82 96 1926 65 70 65 72 95 50	1920	57	52	52	50	56	54	63	64	73	70	75	71
1923 B1 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 131 136 137 132 153 120 118 111 111 114 113 1928 41 55 48 42 43 42 46 44 53 50 55 57 1931 33 41 35 33 28 27 52 60 53 63 55 1933 53 57 51 <	1921	128	143	136	137	137	118	117	109	109	103	91	102
1924 31 41 33 29 26 20 125 22 29 26 29 26 29 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 1928 91 95 96 905 93 84 42 44 44 53 50 50 50 1929 48 55 48 42 43 42 46 44 53 50 50 57 1930 72 76 77 88 78 61 62 63 62 52 50 55 1930 53 57 51 43 44 40 37 44 40 115 114 114 114 114<	1922	111	83	103	115	128	121	124	123	134	146	134	134
1925 93 100 92 71 91 100 112 116 104 13 13 13 13 136 171 91 100 112 118 1111 1111 1111	1923	81	66	76	70	89	101	95	97	96	9 6	94	96
1926657068726951505260626661192713113613713215313512011811111111411319289195969610593868282756676192948554842434246445350505019307276778878616263625250571931356375749196100117114114117115193353575143464757526053635819344756494643414037443740401935999395969795941051141201101121936103889997122122120114117118106113193610388999712212212011411711810611319351041821811931741651661761852222091951939184182181193174165115121120115 <td>1924</td> <td>31</td> <td>41</td> <td>33</td> <td>29</td> <td>26</td> <td>20</td> <td>25</td> <td>22</td> <td>29</td> <td>26</td> <td>25</td> <td>26</td>	1924	31	41	33	29	26	20	25	22	29	26	25	26
192713113613713213513512512011811111111411319289195969610593868282756676192948554842434246445350505019307276778878616263625250571931334135332826282732272829193285637574919610111411411711519335575143464757514040193599939596979594105114120110112193610388999711212512011411711810611319378674767180869396108124125113193818418218112712312611512112613514913513519394854474233394545534953511940124130128127123126115122120112125135 <td>1925</td> <td>93</td> <td>100</td> <td>92</td> <td>71</td> <td>91</td> <td>100</td> <td>112</td> <td>106</td> <td>104</td> <td>93</td> <td>82</td> <td>96</td>	1925	93	100	92	71	91	100	112	106	104	93	82	9 6
1928919596961059386828275667619294855484243424644535050501930727677887861626362929290571931334135332826282732272829193285637574919610011711411411711519335357514346475752605363581934475649464341403744374040195510388999711212512011411711810611319361038899971121251201141171181061131936104182181193174165166176185212209195193948544742393945455349535119401241301281271231261151211201121261351944150174135143134135134135134	1926	65	70	68	72	69	51	50	52	60	62	66	61
1929485548424342464453505019307276778878616263625250571931334135332826282732272829193285637574919610011711411411711519335357514346475752605363581934475649464341403744374040193599939596979594105114120110112193610388999711212512011411711810611319378674767180869396108124125113193818418218119317416516617618521220919519394854474239394545534953511940124130126127123126115121120112107115194415012712312613313512813112812619	1927	131	136	137	132	153	135		118	111	111	114	113
1930727677887861626362525057193133413533282628273227282919328563757491961001171141141171151933535751434647575260536358193447564946434140374437404019359993959697959410511412011011219361038899971121251201141171181061131937867476718086939610812412511319381841821811931741651661761852122091951939485447423939454553495351194012413012812712312611512112011210711519441501781551471381161131151351481501381942140140144150147144132128128	1928	91	95	96	9 6	105	93	86	82	82	75	66	76
1931334135332826262732272829193285637574919610011711411411711519335357514346475752605363581934475649464341403744374040193599939596979594105114120110112193610388999711212512011411711810611319378674767180869396108124125113193818418218119317416516617618521220919519394854474239394545534953511940124130128127123126115115135148150138194214014014415014714413212812813112812819431221061211271351431341351281321161261944615859636054605871<	1929	48		48					44	53	50	50	50
19328563757491961001171141141171151933535751434647575260536358193447564946434140037444374004001935999395969795941051141201101121936103889997112125120114117118106113193786747671808693961081241251131938184182181193174165166176185212209195193948544742393945455349535119401241301281271231261151211201121071151941150178155147138116113115135148150138194214014415014714413212812813112812819431221061211271351431341351281321161261944615859636054605871 </td <td>1930</td> <td>72</td> <td></td> <td>77</td> <td>88</td> <td></td> <td></td> <td></td> <td>63</td> <td>62</td> <td>52</td> <td>50</td> <td>57</td>	1930	72		77	88				63	62	52	50	57
19335357514346475752605363581934475649464341403744437404019359993959697959410511412011011219361038899971121251201141171181061131937867476718086939610812412511319381841821811931741651661761852122091951939485447423939454553495351194012413012812712312611512112011210711519411501781551471381161131151351481501381942140144150147144132128128131128128194312210612112713514313413512813211612619446158596360546058717068671945938286859193106100102 <td< td=""><td></td><td></td><td></td><td>35</td><td></td><td>28</td><td>26</td><td>28</td><td>27</td><td>32</td><td>27</td><td>28</td><td>29</td></td<>				35		28	26	28	27	32	27	28	29
1934475649464341403744374040193599939596979594105114120110112193610388999711212512011411711810611319378674767180869396108124125113193818418218119317416516617618521220919519394854474239394545534953511940124130128127123126115121120112107115194115017825514713811611311513514815013819421401401441501471441321281281311281281943122106121127135143134135128132116126194461585963605460587170686719459382868591931041101131121211151946100100100941031061001		-					-	100	117		114	117	
193599939596979594105114120110112193610388999711212512011411711810611319378674767180869396108124125113193818418218119317416516617618522220919519394854474239394545534953511940124130128127123126115121120112107115194115017815514713811611311513514815013819421401401441501471441321281281311281281943122106121127135143134135128132116126194461585963605460587170686719459382868591931041101131121211151946100100100941031061001021029698100194759635957595559 <t< td=""><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td>52</td><td></td><td>53</td><td>63</td><td>-</td></t<>					_				52		53	63	-
193610388999711212512011411711810611319378674767180869396108124125113193818418218119317416516617618521220919519394854474239394545534953511940124130128127123126115121120112107115194115017815514713811611311513514815013819421401401441501471441321281281311281261943122106121127135143134135128132116126194461585963605460587170686719459382868591931041101131121211151946100100100941031061001021029698100194759635957595253555958645919486695908787838577<	1934		-	49		43	41		37	44	37	40	40
193786747671808693961081241251131938184182181193174165166176185222209195193948544742393945455349535119401241301281271231261151211201121071151941150178155147138116113115135148150138194214014014415014714413212812813112812819431221061211271351431341351281321161261944615859636054605871706867194593828685919310411011311212111519461001009410310610010296981001947596359575953555958645919488695908787838577767069731949687568596468696468656666<					-			Ť	-	114		110	112
19381841821811931741651661761852122091951939485447423939454553495351194012413012812712312611512112011210711519411501781551471381161131151351481501381942140140144150147144132128128131128128194312210612112713514313413512813211612619446158596360546058717068671945938286859193104110113112121115194610010010094103106100102102969810019475963595759525355595864591948869590878783857776706973194968756859646869646865666619508371828796981019384 </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>· ·</td> <td></td> <td>106</td> <td>113</td>		-					-			· ·		106	113
19394854474239394545534953511940124130128127123126115121120112107115194115017815514713811611311513514815013819421401401441501471441321281281311281281943122106121127135143134135128132116126194461585963605460587170686719459382868591931041101131121211151946100100100941031061001021029698100194759635957595253555958645919488695908787838577767069731949687568596468696468656666195083718287969810193847374811951131113128153171155146134124												_	113
1940 124 130 128 127 123 126 115 121 120 112 107 115 1941 150 178 125 147 138 116 113 115 135 148 150 138 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 <td></td> <td>-</td> <td></td>												-	
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194214014014415014714413212812813112812819431221061211271351431341351281321161261944615859636054605871706867194593828685919310411011311212111519461001001009410310610010210296981001947596359575952535559586459194886959087878385777670697319496875685964686964686566661950837182879698101938473748119511311131311281531711551461341241051261952164143163179178183177165165160173167195310412011511711098918383636775195492115100958374717778 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>						-							
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1944 61 58 59 63 60 54 60 58 71 70 68 67 1945938286859193 104 110 113 112 121 115 194610010010094 103 106 100 102 102 96 98 100 194759 63 59 57 59 52 53 55 59 58 64 59 1948869590 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													
194593 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							-	_					
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			-				-		-				
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					-	-							
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 1950 83 71 82 87 96 98 101 93 84 73 74 81 1951 131 113 131 128 153 171 155 146 134 105 126 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<						-					-		
19496875685964686964686566661950837182879698101938473748119511311131311281531711551461341241051261952164143163179178183177165165160173167195310412011511711098918383636775195492115100958374717778687274													
1950837182879698101938473748119511311131311281531711551461341241051261952164143163179178183177165165160173167195310412011511711098918383636775195492115100958374717778687274													
19511311131311281531711551461341241051261952164143163179178183177165165160173167195310412011511711098918383636775195492115100958374717778687274				1									
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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						1							
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

(a) 50-year normal 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 3

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

1954-55 Water Year

Month	(c)	mento and San	mento River near Red	mento	Feather River near Oroville	River at Smart-	can River	Mokelumne River at Mokelumne Hill	laus River	River near La		Joaquin River below	San Joaquin River near Vernalis (b)
October	1954	92	110	99	90	59	53	18	65	31	34	26	35
	Normal	467	274	412	87	28	22	4	8	15	7	21	51
November	1954	93	126	101	91	51	38	28	41	42	33	67	47
	Normal	850	408	727	164	80	75	17	22	39	17	28	107
December	1954	90	110	94	74	70	78	65	59	76	56	63	65
	Normal	1532	715	1312	298	152	147	29	41	66	34	50	191
January	1955	50	52	48	43	42	49	46	55	64	50	58	58
	Normal	2392	1091	2042	443	238	270	43	68	105	60	74	307
February	1955	3 ^µ	35	33	30	29	32	42	42	45	28	53	43
	Normal	2871	1280	2418	535	2 82	321	57	87	136	80	93	397
March	1955	40	39	39	42	37	38	44	39	43	33	51	42
	Normal	3285	1209	2609	665	332	404	85	137	196	110	147	590
April	1955	54	74	56	43	44	49	46	47	49	42	50	48
	Normal	3813	1034	2760	816	417	492	136	215	295	155	251	917
May	1955	83	95	86	75	87	89	84	76	81	77	77	78
	Normal	4070	720	2427	717	444	546	201	300	454	250	438	1442
June	1955	73	71	69	63	75	69	66	74	77	72	86	79
	Normal	2702	474	1390	358	240	319	138	199	382	190	404	1174
July	1955	60	85	75	74	57	50	27	44	30	37	48	40
	Normal	1093	326	625	153	62	83	31	62	133	59	184	438
August	1955	80	93	89	81	66	93	37	48	21	0	72	44
	Normal	514	266	410	99	24	20	4	14	23	12	52	100
September	1955	91	102	97	89	69	98	10	16	48	0	52	41
	Normal	411	252	367	80	21	14 14	2	6	10	5	21	41
Seasonal	1954-1955	62	70	63	56	55	58	59	59	61	54	66	61
	Normal	24001	8049	17498	4416	2320	2713	747	1160	1854	979	1762	5756

(a) Normals considered as mean values 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.
 (c) Normals are shown in thousands of acre-feet.

		5	ABLE	4	
SUPPARY	OF MONTHLY	STREAM	FLOW	DIVERSIONS	AND ACCRETIONS
	SACRAMENTO	RIVER	AND	RIBUTARIES	- 1955

		Record						hantitie	e in Acr	e-Peet					
		in Table		1				June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Total
Item	Milsage	No.	Jan.	Feb.	Mar.	Apr.	Мау				Sept.	001.	MOY.	Deci	
				2750	L3550	75850	95660	28060	15170 RIV	10620	10540	11,50	25690	205000	653260
Sacremento River at Delta (a) Pit River near Montgomery Greek		10	34040	37590	205500	237800	223600	150200	132000	132800	1,0600	13.100	157000	584,000	21,32300
McCloud River ebove Shasta Lake Squaw Creek above Shasta Lake		12	76360	5,960	81880 820	109100	118700	3950	01380 2250	57230	5,620	55330 990	£1250 170	103700	177162
Computed Inflow to Shasta Lake		14	338940	328700	375810	57.,280	506980	270250	275000	198210	206870	205670	293-50 •3550	1869060 •720	53878.0 •121700
Unmeasured Accretions Change in Storege		15	+189 0 -7500	- 5100	+36.40 +103300	+1:520 +252700	+2°20 +125000	-2950 -246500	-46-700		-21.900	+_£30 -123000	+24800	-1059000	+221900
At Reswick	250.5	20	305400	267200	216200	328100	3811.00	513.00	6c150	521500	422500	333360	272200	83.,500	5287700
Near Reddinge	240.7	17	372200	269800	203300	291900	348500	486800	~2800	573600	396200	310100	251900	930800	51,58200
Clear Creek near Igo Cow Creek near Millville	237.1R 228.8L	32 33	17350 42510	12600 21490	10330 15930	27500 36400	22190 26720	5340	2970 1430	1330 595	1200 1280	1570	6700 34590	1,5300	253850 387325
At Bells Ferry.	224.5 222.28	18	470300 52020	320000	246900	39-600	411100	500900	000333	584,500 3600	396100	317000 L960	337100	2900	572,500 515620
Cottonwood Creek near Cottonwood Battle Creek near Cottonwood Paynes Creek near Red Bluff	221.5L 201.5L	34 35 30	22390	27360 16720 2920	16810	33530 19060 2340	26200	13270 17380 1.44	5490 11350 7	×730	4120 9670 132	10730	16960	83170 26560	252170
Unmeasured Accretions			+ 57814	+21004	+12555	+ 37152 25382	•18958 28648	+10037	+11:005	+17712	+19586 26988	•12368	+_6526 10206	+165117	•53397 211457
Diversions Near Red Bluff	198.6	19	194 565200	154 369200	5145 290700	458700	4:7300	29491 536900	30455 686900	024200	431500	24357 341500	385100	1816000	
Redbank Creek at Foothills Antelope Creek near Red Bluffe	191.28 150.3L	37 38	1035 7840	451	242	1306	550	2920	20 50	1840	0	0 1910	360	12250 41630	16803 85220
Antelops Creek near Mouth North Forz Mill Creek near Houth	182.0L 179.3L	39 40	7410	1.592 82	4310 12.5 290 127.0	L215 2 7	- 2011	410	5,0	195	219 121	795 119	2230	39260	60242 4199
Mill Creek near Los Molinoso Mill Creek near Mouth Elder Creek near Gerber	179.0L 179.0L 178.5R	41 42 43	12250 13020 3330	9460 690L 1660	8214	17200	21,160 1,530 3700	1511.0 0078 244	7850	5940	5530 267	5820 1170	8280 6835 1250	78550 86960 40720	203160 15979 57205
Thomes Creek at Paskenta Deer Creek near Vinae	173.2R 168.5L	44	11210	8810	1500 -890 14900	L800 12570 2133-	22370	4350	976 5900	152	4940 85	194 5320	4600	124200	199397 220250
Deer Creek at Highway VyE	168.5L	40	12090 •70457	·41852	9780 +33811	14210 •16549	12150 • 20813	512 • 11ب.15	11.0 +6225	62 -22363	-8752	101; +831.1	4766	89760 +171.05	153005
Diversions			0	0	92	87	34.5	315	749	539	215	-8 <u>341</u> 120	15	0	21,77
At Vina Bridge Dnmeesurad Accretions	166.5	20	-10200	0500بلت 9272-	355600 •4098	•15736	505200 +12588	563L00	094200	601700 +10125	+15069	352900 •5689	409200 -866	2383000	5003700 -151799
Diversions	100		0	20	17693	100236	129788	134596	139138	135525	69169	46769	16734	0	756901
At Banilton City Big Cico Creek near Cicos	149.5 1.1.5L	21 1.7	000085 . 060	431200	1800يلا 0250	L33100 11200	9000 ويليا 5950	417700 2170	54.3400 1690	1476300	369200 1320	311600	389600	2211000 62010	7055000 1071,30
Big Chico Creek near Nouth Stony Cr. below Black Butte Dam Site® Stony Creek Lear Hemilton City	1,1.5L 138.0R 138.0R	105 1350 50	5381 5199 5930	3699 3511 5010	4629 5316 648	7417 16900 3200	3577 18120 1940	412 20330 0	28 19500 0	17940 0	13770	1906	110 609 0	49620 126200 1_3800	75073 250591 103728
Unnessured Accretions Diversions (b)			+55905 16	*16201 10	•834 411	• 7600 L717	+10665 3982	•7410 3122	+17635 5563	•21082 6082	+322 1522	*4594 394	•17797 207	+50091 111	*258736 26137
At Ord Perty	130.8	22	761100	456100	31,7700	8600 يليا	467200	422400	555500	491300	368000	316000	407500	21,85000	
Unreasured Accretions Diversions			-50888 212	-13900	+7542 942	-12109 13291	-14052 12948	-13096 14704	-15667 15733	-7223 15377	+5165 5665	-288 1112	-23846 354	-75696 1304	-211.058 81c1.2
At Butte City	115.8	23	710000	2200 مىل	354300	423200	0200 پليد	394600	524100	468700	367500		383300	2.,08000	7230700
Opposite Moulton weire Onnessured Accretions	103.3	24	+ 5200	+4967	382800 +10204	-2959	+16216	389100 +3961	511100 -7904	+5837	373500 +7553	320000 +10532	-1583	-50855	-111,781
Noulton Weir Colume Weir Diversions	104.0L 92.4L	51 52	000	367	eile	0014831	22916 0	0 0 27201	0 0 31296	25037	7653	732	317	163900 850500 045	163900 550500 132319
At C luss	69.4	25	715200	0086, پیپ	363900	405460	433500	371300	484900	6900 ډيپه	367400	32 <u>1µ.</u> 00		1286000	
Butte Creek near Chicoe Butte Slough to Sacramento River	84.01 84.01	575	18490 27800	14240	16450 21690	267 00 11910	31000	14060 11900	944.0 د1.	7930 3210	8040 21410	6990 4667	9070 10190	125700 15810	290310 180011
At Boridiane R. D. 70 Dráin	79.85 68.8L	26 55	772500 >57	491200 460	387300 673	410000 1690	40 3600 2880	388000 1710	494400 3253	450000 3652	381200 4052	322800 584	¥ 7700 کو کړې	1375000 3158	6333700 23534
Unnessured Accretions Tindals Weir	64.2L	56	-23957	-5010	~4008	-2201	•13785	+54.35	+15502	-9617	-12364	-9024	-4016	+68832	• 33357
Diversions Relow Wilkins Slough			ō	ō	2255	48499	82625	81945	93469	85345	28	3827	39	0	41 900 426502
Above R. D. 108 Drain Plante	62.9 40.4	27 28	20000	402000	380000	368300 361400	398600 387900	3084 00 308200	410800 400800	360800	352000	316800 315 50 0	1300000	955900	5,21600
R. D. 108 Drain R. D. 787 Drain	LLL.OR	57 58	3007	1611	1458	7018	21.9 0	10650	21020	21010	15470	1006	402	9163	125695
R. D. 707 Drein Coluse Basin Drein Syza ore Slough	37.0R 34.15R 34.15R	62	22470	250 5237 114	7301 60	22550 1292	1523 50000 1517	1000 21790 1055	1207 32310 1330	1349 49.30 1022	2270 870	20 25520 51	25750	2555 9582 13-9	10532 355460 9531
Unmessured Accretions Diversions			+4=076	+. 3988	+16902 L10	+16021 20480	•12342 37342	+23195 37530	+18550 43817	+24,580	+9658 1,565	•12713 110	+13328 05	- 38-9	+218902 196340
At Knights Lending	34.0	29	793400	447200	410	397500	457700	331,600	43017	41021	435500	357000	427500	975000	5945000
Sacremento Slough Peether River at Nicolaus	21.2L 20.9L	68 73	_2860 331000	20110	14280 288100	25180 332100	47980	38330 147300	29300 20210	32330 22840	48520 43370	11,320	2011.0	NR 2372000	4528890
Coon Creek at Highway 998e Auburn Ravine at Lincolne Matomas Cross Cenal at Mead R. D. 1001 Drain	19.6L 19.6L 19.6L 19.6L	73 81 82 83 84	13130 6772 25910 1565	4282 2094 6918 230	3140 2045 5546 155	3005 11.5 3129 321	557200 1839 1841 1611 1045	235 2615 159	152 3568 01 0	281 3548 90	596 1640 1118	1155 307 050	1579 987 2088	2372000 36090 13560 5y110 NR	651,84 11002 106690
Unmeasured Accretions			-20735	-12364	· 34:0	-14659	-9218	•5273	- 3021	+9507	+4793	-19205		•11,52890	+1361040
Premont Weir Diversigns (c)	23.7R	Cils	0	0	147	4171	16318	12105	19710	17307	y301	335	101	2793000 0	82552
At Verone	19.6	30	1188000	714600	718800	739400	1040000	510800	473700	468800	524000	428400		2066000	
N. O. 1000 (Pritchard Lake) Drain R. D. 1000 (#3) Drein N. D. 1000 (2nd Bannon Slough) Drein	19.0L 6.85L 2.1L	85 88 88	282 28 ليد 5	388 1402	22 414 518	560 871	1605 1220	1789 583	2057	0 1116 129 838	1380 2844 5814	69 1118 127	709	3520 1829 13670	5297 16517 28819
Linda Creek near Roseville American River at Sacremento	1.3L 1.1L	89 97	11230 162600	5216 101500	3447	344.3 63830	24,28 264,000	1129 223900	¥55 110200	838 12800	1551 03020	1928 47000	2196 31920	28030 894300	6 Gangel
Unmessured Accretions Samramento Weir	4.2R	67	• 35%43	•18098 0	•18574	+25289 0	•47306	•22253 0	• 5625 0	-0869	+6670	•17133 0	•16241	***186	• 2251.9 58 9500
Diversions (d) At Secretento			2568	2004	2875	134.73	28019	35254	39761	39524	19509	4175	3666	5035	196673
At Secrezento Sheate Lake to Secremento	0.4	31	11,00000	839200	839600	819900	1 28000	~25200	552800	554900	58 58	480500	98900	24,37000	1116"900
Totel Unmeasured Accretions Totel Diversions			•195595 2990	+901 4 2503	•109728 30839	•106929 251187	•138023 362531	• 506V 377320	• 34131 4190-1	•43441 3900 7	+48428 184085	• 42483 61951	•42038 33704	-1708961 7262	•2624980 2152600
	A														

Bot included in computations of unnessured accretions.
 (a) Afore Simera Lake
 (b) Includes diversions from Peather Hiver below Hive Single.
 (d) Includes diversions from American River below "H" Street Bridge.

	TABLE 4		
		VERSIONS AND ES ~ 1955 (c	

		Record						uant (b.f.	e in Acr	a-Fast					
		Record in Table													Annuel
Item	Mileage	No.	Jan.	Feb.	Mar.	Apr.	May .	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
								FEATH	ER RIVER						
Near Oroville	71.0	69	144300	111000	202400	272800	425700	179300	124100	112400	91990		120600	1767000	3647770
Unmeasured Accretions Diversions			-14800 0	-6300 0	-16130 6770	-10972 87728	-21757 132443	+7418 131758	-532 119597	-1785 105910	-2312 56258	-1432 39128	-7493 12207	-104000 0	-170095 691799
Near Gridley	49.7	70	139500	104700	179500	174100	271500	54960	3971	4705	33420	55620	100900	1663000	2785876
South Noncut Creek near Bangor	43.7L	74	2470	1320	906	1640	492	74	4	0	0	0	100	18170	25296
Unmeasured Accretions Diversions			+57830	+17380	+12258 524	+39737 1077	+74619 511	+26512 1376	+17650 6345	+15868 5783	+10742	+14883 73	+10352	0	17483
At Yuba City	28.0	71	199800	123400	192200	214400	346100	80170	15280	14790	42380	70430	111400		
Yuba River near Marysville	27.3L	76	92280	68230	94730	+6497	234800	76490 -1470	17040	14180 -2042	-1195	5460 +4244	19140 +5360	1066000	1821260
Unmeasured Accretions Diversions (a)			- 36980	+1370	+29613	197	260	490	705	588	185	14	0	0	2486
Below Shanghai Bend	23.0	72	255100	193000	316500	348500	529900	154700	31570	26340	46110	80120	135900		
Bear River near Wheatland Dry Creek near Wheatland	12.0L 12.0L	80 79	34250 9930	212h0 1860	14060 1140	6040 1100	14530 305	1990	484	311 0	310 378	1900 324	2440 359	213400 37860	310955 53259
Unmeasured Accretions Diversions (b)			+31720	-13600	-43140	-20179 3361	+18629	-3 396 5997	+474 6318	+1852 5663	-965 2463	-6222 452	-8080 19	0	30897
At Nicolaus	9.3	73	331000	202500	288100	332100	557200	147300	26210	22840	43370	75070	130600	2372000	4528890
Oroville to Nicolaus															
Total Unmeasured Accretions Total Diversions			+47770 0	-1150	-17399 7797	+15083 92363	+207.51 139378	+29064 139621	+17551 132969	+13893 117944	+6270 60688	+11473 39667	+139 12238	0	742005
								AMERIC	AN RIV <u>ER</u>						
North Fork American River at N.F. Dam Middle Fork American River near Aucurn		90 91	29510 40070	23060 36270	37030 60800	58450 97710	102900 200700	40480 87000	7350	2840 5230	2220 3720	2330 3760	5790 8630	317400 481100	629960 1040150
South Fork American River near Lotus Weder Creek near Salmon Falls		91 92 93	37200	30990	44650 3460	74660 5320	152000 2960	78390 278	15160 14710 90	9600 3	9380 21	3760 9590 54	11150 557	481100 360900 46440	833220
Computed Inflow to Folsom Reservoir		94			164110	245610	486450	218480	41720	26400	26780	36010	49080	1261220	
Unmeasured Accretions Diversions Change in Storage		95			+3990 +06400	-4230 1950 +173400	-14090 5260 +206600	-10350 5630 -21700	-12530 6090 -86300	-8470 6090 -120800	-2580 5390 -44100	+750 4160 -18200	-850 2820 +12700	-9190 1630 +347300	-
At Fair Oaks	19.2	96	104100	101700	101700	06030	260500	224200	109400	132700	62910	49300	32710	903100	2208350
Unmeasured Accretions Diversions			-1500	-200	-977 23	-2093 107	+3761 204	+776	+2066	- 3326 974	+742	-2010 290	-654 136	-8800 0	-12212 4768
At Sacramento	6.1	97	102600	101500	100700	03830	254000	223900	110200	128400	63020	47000	31920	894300	2191370
Folsom Reservoir to Sacramento															
Total Unmeasured Accretions Total Diversions			O	0	+3013 23	-0323 2057	-10326 5524	-9574 6706	-10464 7356	-11796 7064	-1838 6022	-2760 44,50	-1504 2956	-17990 1030	43788
	_							SUTTER	R BY-PASS						
Butte Slough to Sutter By-Pass	29.4	65	3968 0	8079	ó 2 16	14890	12000	10550	10560	9356	6005	3195	8319	1158000	1286850
Wadsworth Cenal R. D. 1500 Drain Tisdale Weir	25.7L 0.0R 18.9R	66 67 56	5702 6902 0	2819 4006 0	1713 2642 0	5361 3620	9130 18040 0	7860 53730 0	3191 70790 0	3957 70080 0	9406 29730 0	5740 4596 0	3076 1862 0	23320 19910 417900	81275 287968 417900
Unmessured Accretions			+6503	+5146	+4273	+7998	+27750 18968	-13530	- 30995 20186	-25126	+12981	+2565	+7923 1040	459	109508
Diversions Sacramento Slough	-1.0	68	27 52800	20110	564 14280	25180	18948 47980	36330	29360	25937 32330	48520	14320	20140	459	109300
· · · · · · · · · · · · · · · · · · ·								BACK	SORROW PI	Т					-
Colusa Trough at Highway 20	37.0	59	18920	7656	7432	29740	56990	31650	40830	÷ 50860	55600	22200	218 50	83340	427068
Unmeasured Accretions			+1320	+280	+2122	+4219	+10205	+7312	+8480	+12018	+10992 2662	+ 2044 1414	-093 777	+4378	+02678
Diversions Back Borrow Fit at College City	22.7	60	0 20240	0 7936	212 9342	3069 30890	62320	7542 31420	9310 40000	54770	2442 04150	22830	20380	87110	451388
Unmeasured Accretions Knights Landing Ridge Cut	0.4R	61	+7926 5657	+1301 0	- 1908 114	-235 4132	+4379 4673	+2051 5712 6569	+5997	+0439 5381	+11489	+4232	+5883 44 469	-5125 72090	+43031
Diversions Colusa Besin Drain	0.0	02	41 22470	0 9237	19 7301	3973 22550	5956 56070	21790	6721 32310	6198 49530	1389 72270	542 26520	409 25750	313 9582	32190 355480
Highway 20 to Outfall Gates			4.5												
Total Unmeasured Accretions Total Diversions			+9248 41	+1581 0	+214 231	+3984 7042	+14585 10832	+9903 14111	+14477 16031	+18457 14306	+22481 3831	+6276 1956	+5190 1246	-747 921	+105709 70548
								YUB	RIVER						
At Englebright Dam	22.8	75	67300	57270	89570	130300	249400	100700	43170	38830	15390	13450	23070	935400	1763850
Deer Greek near Smertville Dry Creek near Virginia Ranch	21.8 11.0	77 78	7610 7730	4100 4520	2890 3280	3650 5510	1300 1830	302 399	282 423	297 445	300 165	383 88	1210 219	59030 54360	81 354 78969
Unmeasured Accretions			+10909	+2340	-127	+1663	+280L	+1805	+ 39 37	+845	+3205	-229	+786	+19963	+48021
Diversions Near Marysville	5.2	76	1269 92280	0 68230	883 24730	13323	20594 234800	26776 76490	30772 17040	26237 14180	13950 5110	8232 5460	6145 19140	2753 1066000	150934 1821260
Nont 101/32/110	204	10	92200	00230	74130	151000	234000	10430	110110	14100	9110	5400	17140	1000000	1021200

(a) Includes diversions from Yuba River below Mile 5.2.

(b) Includes diversions from Bear River below Wheatland.

		1	ABLE !	5		
SUMMARY	OF MONTHLY SAN JOA UI					ĸs

		Record						uantiti	es in Aci	u-Peet					
Item	Mileage	in Table No.	Jan.	Feb.	Mar.	Apr.	Hay	June	July	Aug.	Sept.	Det.	Nov.	Dac.	Annual Total
								SAN JO	UUIN RI	/ 1219					
inflow to Millerton Lake (Computed)		122	66260	FUADE	62810	1176.06	214506	216510			500.06	25815	21.779	1.00000	1160003
Unreasured Accretions		123	66369 +204	59695 -259	-674	117606 -1668	-2433	-4319	105576 -4801	-4231	55156 -1581	35845	34778	400990 +2823	1462307 -18544
Change in Storage		124	+. 1966	+43600	-27600	+21200	+1284,00	+ 30400	-130900	-152800	-ć4700	-100	-19300	+309200	+237900
Medera Canal Priant-Kern Canal	269.13R 209.63L		153	517 11839	18706 87015	16200	12192 64015	37104 134078	53302 166857	52112 156912	34351 74396	27907	10471	173	2180_L 811571
Diversions			0	0	1	13	¢	9	16	25	8	0	0	0	78
Bolow Priant	208.13	125	4,520	3180	4020	7400	7460	9940	114"0	11980	2520	7050	4350	0 مبيد لا	175370
Little Dry Creek near Priant . Unneasured Accretions	264. TL	135	511 +1121	341 +350	262 ~268	-1185	ву -966	-1423	-1590	-2070	-2102	-1367	-236	7750 +3516	9061 -6210
Diversions			2	1	324	,80	733	2417	3151	2090	1786	813	196	6	13311
Near Biols Unmeasured Accretions	23.4	126	150 -1618	3880	36y0 -2195	5340 -3105	5850 -3549	6100 -4438	6"20 -4650	7020 - 5024	5630 -4240	-376	3y20 -3027	- 32568	-70296
Diversions			0	0	51	59	10	2	106	153	71	28	20	-32500	500
At Whitenouse	219.83	127	4532	1934	1474	2116	2291	1630	1734	1843	1319	1176	873	73192	94114
Delta-Mendota Canal (a) Unmeasured Accretions			-037	12934 -4902	79899 -14649	-8545	124218	-20488	154278	151585 -26105	95447 -11409	57896 -5360	18383 -2728	-10588	958536 -139060
Olversions (.)	205 0	128	305	5811	55472	82150	94463	106358	108617	103845	68976	40270	12198	10635	cy5100
Near Mendota Unressured Accretions	206.2	128	3590 +587	4155 +1451	-597	+691	18173 +1046	25133 +2108	25079 +1058	251.18 • 372	+1106	-901	+330	-16077	217890 -6197
Diversions			0	520	10033	16424	1,819	27241	20137	257.40	17487	8343	L087	2920	160001
Near Dos Palos Fresso River near Daultona	186.0 184.0R	129 136	4177 4540	5086 3730	22 4390	0 5390	0 8540	0 3470	753	0 34	0	37	0	42407 59770	51692 91284
Chowchills River at Bucharan Dam Site Hari osa uraek balow Mariposa Dame	1 1.0R	137 139	4870	2060	2660	2480	3590	382	753 14 5	0	0	0	14	79640	91204 95710 35754
Owens Creek clow Owens Dare Burns Creek telow Burns Dame		140	066 4762	290 764	139 252	157 37	182 116	0	0	0	0	0	0	3750 22705	5250 28636
Bear Creek below Bear Dame Salt Slough near Los Banos		138	4489 4160	NR 4320	623 4310	262 5860	918 63 5 0	~080	6870	7190	6340	2930	2090	27479	6.,880
Unmessured Accretions Diversions			+17853 U	+5180 15	+5560 172	*4996 146	+ y8 37 207	+5~55	+1632 392	+-75 485	+618 98	+86	+730	+84.93	+01015
st Fremont Ford	129.5	130	26190	14570	9720	10~10	15920	12 40	8110	7380	7000	2940	2.20	58280	176340
Merced River near Stevinson	123.75R	146	18600	9530	9390	10710	9140	0810	0590	7430	7650	0780	5230	139200	236110
Unmeasured Accretions Diversions (c)			+5332 2	+5153 3	+2370 56	+1453 433	+1927 467	•1824 704	+1252 752	+711 1041	*410 716	-625 295	+732 52	*731 11	• 22532 1,592
Near Newman	123.7	131	50120	29250	21430	25/170	26520	20510	15200	14530	144,10	10050	9730	198200	432390
Mercea River Slougs. Oristin:s Creek near Newman	122.2	147 148	0 10	0 13	0 16	0	0	0	0	0	0	0	0	39000 11140	39000 11185
Dr.measured accretions			+11183	+9218	+14387	+16030	+133 2	+13324	+14899	+14224	+13267	+9410	+644.9	-109299	+20449
Diversions Near Grayson	96.05	132	.1319	38390	29732	6430 30040	30278	130y7 20727	13339	14096 14058	8675 19002	1744	142	139041	75319 433705
Tuolumne River at Tuolumne City	91.0R	154	72109	19500	37.224	20410	19012	17226	162ol	16195	10195	21977	34750	294827	036409
Unmeasured Accretions Diversions (d)			-1685	-5736	+2:00 5284	+5165	+5241 13362	+15200 15804	+9449	+.407	+3337 8167	+571 2386	- 3057	-39254	-682
At Netch Hetchy Grossing	82. 5	133	131742	102165	60972	43339	42109	37349	23534	23127	30367	37884	374	32 394582	94903 974589
Stanielaus River near Mouth	79.78	160	47090	28010	33850	12170	31590	57930	4530	3079	5018	7577	10360	283400	527204
Unmeasured Accretions Diversions (e)			+ 3408	+ 5925	+3624	+ 3444 y 444 08	-434 3453	-3349 4930	+ 3048	+ 4851 5170	+ 3566 2681	+5117	+0517	-7382	+29271 305°4
Near Ver alts	76.7	134	182300	136100	95980	54550	70740	89000	25600	20490	36270	49150	63710	670600	1500,90
Millerton Lake to Vernalia															
Total Unmeasured Accretions Total Diversions			• 35808 403	*14444 19107	+10164 190251	+17421 212044	•12.26 218391	+.4184 342089	-2249 397100	-8167 376732	+3178 217414	+5335 89290	+5079 28062	-199545 13777	-101722 210004,0
•								MER	ED RIVER						
At Exchaquer		24.3	3210	2820	19040	60650	.4500	105000	109200	102300	L. 030	2980	2500	135600	0.581,30
Unmanaured Accretions			+422	-1374	-2031	-580	+2345	-5364	-0089	- 3429	-1541	-2293	-2233	+20544	-1629
Morcad irrigation District Ca:als	40.0		. U	0	16614	03833	65551	y8075	101835	y7875	41850	607	119	ىلىة (457009
Below Scalling	42.1	ւհե	3632	1446	995	2231	1294	961	1276	996	033	80	148	156100	169792
Unmeasured Accretions Diversi na			+11078	*.,303 1	+4381 46	+4420 756	+4908 1007	*4228 1883	+4418 1903	*5451 1976	•4907 1415	+ .217	+3372 59	+13100	408443 9361
At Crosse,	27.6	145	15310	5748	5330	5895	5135	3300	3731	4473	4185	3082	34,01	169200	2 288 54
Unmassured Accretions Diversions			*3299 9	• 3799 17	+4943 883	+ 5440 1625	+5850 1845	+0153 2649	+€230 3371	**·036 3027	+5708 22l+3	*4 544 846	+3397 628	-29724	+26075 17419
Near Stevinson	lis b	140	18600	9530	9390	10710	9140	6810	0.590	7480	7050	6780	6230	139200	238110
Exclequer to Stevinson															
Total Diversions			*15399 9	≁0728 18	+7293 11543	+16274 00214	+13103 58463	+5017 103207	+4559	+8058 162478	* 134 45 14	*5408 1068	+4,536 806	+ 1920 320	+93499 13809
Not included in computations of anm						1			1		-				

Not included in computations of anneasured accretions

 (a) Deliveries from beits-findots Canal to Hendots Pool as computed by U. S. Bureau of Reclamation.
 (b) In Ludes diversions from Henced Niver telew Stavinson.
 (c) Includes diversions from Henced Niver telew Stavinson.
 (c) In Ludes diversions from Henced Niver telew Stavinson.
 (c) Includes diversions from Stavinson.
 (c) Includes diversions from Henced Niver telew Stavinson.
 (c) Includes diversions from Stavinson size (s) Anneal (s) Ann

	TABLE 5
S	OF MONTHLY STREAM FLOW, DIVERSIONS AND ACCRETIONS SAN JOAQUIN RIVER AND TRIBUTARIES - 1955 (Continued)

		Record						uantitie	a in Acr	e-Feet					
Item	Mileage	in Tsble No.	Jen.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Total
								-			Copti			2000	TOCET
								TUOLUN	NE RIVER	1					
Above La Grange Dam		149	58850	68740	102900	98520	94710	132500	135300	117600	90410	27210	40700	310500	1277940
Unmeasured Accretions Kodesto Irrigation District Canal	53.5R		+1000 1230	-93 17	+1510 24040	+1491 40570	+879 34740	+576 48720	+375 50040	+455 41370	+490	-97 9070	-280 5660	-21870 8350	-15564 291697
Turlock Irrigation District Canal At Ls Grange	53.5L	150	20340 38280	12570 56060	62620	40570 58390	59990	83760	85150	76290	62540	11050	14320	13580	560600
Unmeasured Accretions	50.5	150	+964	-610	+2258	1051 +2269	859 +2315	596 +1874	485 +1532	395 +1669	+1858	6993 +3020	50j1j10 +586j1	266700 +5800	410079 +25913
Diversione At Roberts Ferry Bridge	39.9	151	4 39240	0 554,50	18 199 90	55 3265	108 3066	130 2340	252	200 1864	81 2247	52 9961	24	0	924
Unmessured Accretions	2/07		+6110	+3800	+3579	+3987	+4219	+ 1757	+4175	+4171	+3561	+2372	23380 +2360	272500	435068 +45391
Diversions At Rickman Bridge	31.7	152	0 45350	0 59250	19 23550	38 7214	37 7248	97 6000	144 5796	144 5891	72 5736	63 12270	0 25740	275800	614 479845
Dry Creek near Modesto	16.5R	155	19440	1882	1904	3178	2543	3384	2001	1946	1658	1418	1638	39230	80222
Unmessured Accretions Diversions (a)			+4850	+5519	+8388	+6653 245	+6406 237	+5386	+5572 409	+5870	+5784	+6111	+5389	-9530	+56398
At Modesto	16.1	1.53	69640	66650	33720	16800	15960	14320	12960	13280	12890	19640	32760	305500	614120
Unmeasured Accretions Diversions			+2472	+2934	+4472 208	+4061	+ 3696 644	+3623	+4111 807	+ 3686	+3883 578	+2692	+2070	-10673	+27027 4678
At Tuolumne City	3.35	154	72109	69580	37924	20410	19012	17226	16264	16195	16195	21977	34750	294827	636469
Above La Grange to Tuclumne City															
Total Unmeasured Accretions Total Civersions			+15396 21577	+11550 12592	+20207 87087	+18461 99749	+17515 95756	+15216 133874	+15765 136802	+15851 119202	+15576 91449	+14098 20749	+12503 20091	-32973 21930	+139165 860858
				<u> </u>				STANISL	AUS RIVE						
Below Melones Power House		156	36140	33530	46500	68260	121000			65850	3.73.60	8600	7600	0.000	0.0001.0
Unmeasured Accretions		1.90	+13516	33530 +706	-272	+549	-9484	149100 -5950	74600 -2091	-738	17350 +846	8620 +3100	7690 +3623	254300 +16005	882940 +19810
Oskdals Cansl South San Josquin Canal Diversions	58.6L 58.6R		12170	10020 0	7480 14200 28	15100 49120	23680 56310 66	28010 65550 100	22170 48710 90	20060 42930 75	3910 12790 70	136 7330	2560	165 3540	121565 325230 525
At Orange Blossom Bridge	147.0	157	37420	241.50	20	39 4550	31460	19490	1539	2047	1426	53 4201	8027	266600	455430
Unmessured Accretions Diversions			+3670	+1930	+5401 181	+2974	+4465	+2628 458	+3803	+2634	+2365	+ 548	-1927	+ 31800	+60291
At Riverbank	33.6	158	41090	26080	29740	7273	35780	51660	530 4812	402	3596	46 4703	6091	298400	2297 513424
Unmeasured Accretions Diversions			+6454	+2143	+6003	+6088	+2054	+12725	+4500 642	+4533	+3934	+3923	+3709	-22700	+33366
At Ripon Bridge	15.7	159	47530	28220	35620	13140	434 37400	63930	8670	752 7980	390 7140	8320	30 9770	275700	3370 543420
Unmeasured Accretions Diversions			-439	-209	+689 2459	+2356 3326	-831 4979	+ 3033 7033	+2818 6958	+3115 7416	+2630	+2049	+971 381	+7700	+23882
Near Mouth	1.9	160	47090	28010	33850	12170	31590	59930	4530	3679	5018	7577	10360	283400	527204
Melones Power Nouse to Nouth															
Total Unmeasured Accretions Total Diversions			+23201 12251	+4570 10090	+11821 24471	*11967 68057	-3796 85614	+12536 101606	+9030 79100	+9544 71715	+9775 22107	+9620 10663	+6376 3706	+32805 3705	+137349 493085
								MORMO	N SLOUGH						
At Bellota	0.05	114	47290	6563	571	373	2428	3790	2900	L48	0	0	0	NR	
Unmeasured Accretions			-280	-2421	-302	-220	-1538	-1917	-1262	+214	+10	0	0		
Diversions Stockton Diverting Cenal at Stockton	17.6	115	0 47010	0 4142	48 221	109 44	687 203	1478 395	1483 155	062	10	0	0	0	4477 167170
														119000	10/11/0
									RAS RIVE	<u>R</u>				1	
At Jenny Lind Unmeasured Accretions	36.9	111	37650 +9796	5230	400	2200	6720 ko	10070 +983	10900	3200	0	0	39	131800	208209
Mormon Slough at Bellots Diversions		114	47290	+1341 6563 0	+222 571 51	-269 373 182	-49 2428 556	+983 3790 1203	- 54 2900 1282	+87 448 871	+54	+12 0 12	-38 0 1	NR	4212
At Bellota	25.25	112	156	8	0	1376	3687	6060	6664	1968	0	0	0	NR	
Unmeasured Accretions Diversions			+83	-8 0	+2	-954 297	-1542 1309	-2271 3152	-2446 3544	-267 1578	+44 44	0	0	0	9926
Neer Stockton	8.9	113	239	0	0	125	836	637	674	123	0	0	0	5783	8417
Jenny Lind to Stockton															
Total Unmessured Accretions Total Diversions	-		+9879 0	+1333	+224 53	-1223 479	-1591 1805	-1288 4355	-2500 4826	-180 2449	+98 98	+12 12	-38 1	0	14138
								MOKELUT	NE RIVE	R					
At Lanchs Plana		107	36030	32660	14680	14660	19050	19110	22870	22640	22730	23640	20200	153100	LO1370
Near Clements	39.35	108	41890	34130	15870	14470	22180	23910	23340	22890	22690	22820	20450	160300	424940
Unmeesured Accretions Diversions			-2980	- 21,11,0 0	-4062 2218	-2464 9036	-5741	-8004 15099	-2364 19926	-2975 18855	-3164 13706	-2991 10079	-506 3584	-34000	~71691 105722
At Woodbridge	19.2	109	38910	31690	9590	2970	3220	807	1050	1060	5820	9750	16360	126300	247527
	1							COSTROL	S RIVER						
	al. 2	1 of	20000	00050	02060	00/55	202.02								
At Michigan Bar Unmeasured Accretions	34.3	104	39090	20930 +4200	23090 +2554	28670 +1221	32150 - 351	8970	1870	367 +190	324 +106	571	2240	196100	354372 +86410
At Michigan Bar	34-3	10Ļ			23090 +2554 54 25590	28670 +1221 361 29530	32150 -351 289 31510	8970		367 +190 557 0	324 +106 430	571 -235 336 0	2240 -1169 210 861	196100 +56907 7 253000	354372 +86410 5881 434901

(a) Includes diversions from Dry Creek below Modesto (Clauss Road Bridge).

	7.1.0.0104	
S IMM .RY	OF MONTHLY STREAM FLOW TULE RIVER AND TULARE	, DIVERSIONS AND ACCRETIONS LAKE BASIN - 1955

		Record	Quantitles in Acre-Pest												
Item	Mileage	Table	Jan.	Pot.	Her.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Total
								TULE	AIVER						
Near Porterville	-1.0	163	5541	yano.	6826	:490	10650	4040	326	24	0	60	1220	4074-	8666.
Vimessured Accretions Diversions			+2009 539	*3701 711	• 3028 528	+1476 756	+2206 1166	4660 1210	•64 238	=23 C	-0 0	80 - 0	+200 150	+1555++ 294	•28861 5592
At Wortr Bridge	2.2	164	8010	12000	9350	7210	11690	3510	222	1	0	0	1330	56000	109953
Priant-Kerr Canal to Tule River Priant-Kern Canal to Porter Sloughe	11.3	167 168	0	0 157	16457	5903 0	854.9 0	20يليلا 352	24810 0	17306 0	7325	0	6	1500 0	56260 515
Onmassured Accretions Diversions			-5330 2680	-8774 3806	-20232 5545	-9199 3924	-9787 10452	+15777 2153	-24955 77	-17307	-7315	0	-862 468	-33731 2259	-15326y 31354
At Turnbull Station	37+0	165	0	80	0	6	0	¢.	0	0	0	0	0	21510	21590
							INFL	OW TO TU	LARE LAK	E BASIN		1			
Kinge River (S.P.) below Shpire Weir #2 Cross Creek below Lakeland Canel #2 Twie River av Turmbull Station Buons Vista Siongn near Lost Hills Goose Lake Canel near Lost Hills		169 170 15 172 171	22722	5 U 50 0 0	0000	C O O	0	0 0 0	0 0 0 0	541 0 0	1400 0 0	0000	0	8777 21510	1941 8717 21590
Total Measured Inflow to Tulare Lake Bed			v	60	O	U	0	0	Q	SI41	1400	0	0	50267	.e368

. Not included in computations of unseasured accretions.

TABLE 7 SUHMARY OF MONTHLY WATER SUPPLY AND UTILIZATION SACRAMENTO-SAN JOAQUIN DELTA - 1955

Record yuantities in Acre-Peet														
	Record						Juantitio	s in Acr	e-Peet					
Item	Table No.	Jan.	Peb.	nar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual Total
WATER SUPPLY														
Measured Inflow														
Sacramento River at Sacramento	31	14,00000	839200	839600	819900	1328000	725200	552-00	554900	58580J	485600	598900	243-000	11167900
Sacramento Weir	87	0	0	0	0	0	0	0	0	0	0.	0	589500	559500
Yolo B, -Pess near Weodland	101	11980	4880	2790	1980	2030	1360	108	1170	4350	720	455	3000000	3033023
Puter Greek near Davis	103	13970	7540	7940	17320	5190	1	0	0	0		0	301000	352964
Cosumnes River at McConnell	105	52110	25130	25590	29530	31510	7060	90	0	0	0	861	253000	434901
Dry Creek near Oalt	10.	27700	7140	4640	3650	2490	18	0	5	0	0	1	57040	132724
Mokelumne River at Wooduridge	109	38910	31690	9590	2970	3220	807	1050	1060	5820	-750	10300	126300	247527
Bear Creek near Loriseford	110	4980	509	151	56	6	12	4	0	0.	0	0	7790	13510
Calaveran River near Stockton	113	239	0	U	125	c 36	6.37	674	123	0	0	0	5783	8417
Stocktor Diverting Canal at Stockton	115	4/010	4142	221	44	203	395	155	0	0	0	0	115000	-67170
Duck Creek near Storyton	117	2213	4	2	36	18	15	27	156	77	9	2	2188	L057
French Camp Slough near Prench Camp	122	26850	1740	1537	1366	1 51	294	45	37	0	196	297	29400	02-05
Sa Joaquin River near Vernalis	134	162300	130100	\$5/80	54550	. 0740	y000	25600	204,0	36270	49150	* 3710	00000	1500.490
Total Measured Inflow		1 182/2	105 075	986041	931589	1445hr	324 22	581153	503051	-32317	Succes	1-80586	7024001	17715248
Preci; itation (s)		16 400	50500	2 090	103900	3¥300	0	U	U	10110	5018	55050	407834	919528
WATER UTILIZATION														
Consumptive Use in Delte Service Area	221	y227	49643	70361	153200	217162	249987	322809	135199	24,401	141829	-1943	5,100	1955001
Exportations		1												
Delta-Mendota Canal	1.4	563	20267	y6472	131247	140073	183642	190:59	164245	108461	0,2004	20846	=459	1160048
Contra Costa Canal	175	1886	2140	2400	4404	4300	0325	فاذباد	6230	5842	10.50	3122	2489	44342
City of Vallejo	202	678	000	708	752	1084	1308	1.37	1343	1143	915	037	407	10778
Total		3127	23013	995.0	136403	151517	191275	19 230	191828	115l.lic	*3629	240.05	11455	1220108
Total Co. au prive Uss and Exportations		42354	72356	169941	209723	368699	441262	521(99	527027	364847	21 51,58	V6548	/ 5615	3175+29
Dolta Uplands Diversions (b)														
Old River	192	115	1	11356	10165	168 1	26-19	24118	23 45	15512	586.3	410	3	1,10908
Tom Pairie Slouph	192	0	O	1290	2130	2625	.785	19=5	4723	3320	1217	405	203	LR 92
Sar Joaq in River (Sto kto to Vernalis)	192	48	175	5.80C	12274	10.171	1 0	172 .	14 127	103 .	70	167	538	yr 083
Franc Camp Sloups, alon Franc Camp	192	U		102	151	549	4+7	300	482	-		11	0	ē Jus
Calavaras River telow Stockton	192		U	U	¢	30	190	159	1 14	+	.7	0	0	769
N Kelumna River talow w odbridge	192			153	4.55	945	1 70	21.	101	1036	250	c		84.8
Jos mass River slow H 1 misll	1/2		1	U	28	~	84.9	674		389	υ		U	100
Sacramento River elow parra ert	192	0		£	87	1.10	51	1	410	141	48	3		2152
Y=10 By-Jass west Cut}	1 2	U		, c	2744	ولف	•.	. 1	43	3.0	18 7	523.7	-	2643
Miscellanequa	1/2			2390	(71	11854	18	1966	187 3	1 400	80.045	UC 7	4.56	104421
T to Dolta Uplanis Diversions		2	170	13-8	42776	1 092	72 8	1 42	* 558	4 10		1 4	.1%	405880

(a) Mater so by free provipitation mas team computed of a welk ted mean rainfall and the acreage of the Delta Service area. I Meas red diversions to the Delta Uplands supply a portion of the constructive mean in the Delta Service area. ANNUAL IRRIGATED ACREAGE 1946-1955

SACRAMENTO-SAN JOAQUIN RIVER SYSTEM SERVICE AREA AS COVERED BY SACRAMENTO-SAN JOAQUIN WATER SUFERVISION

Stream	Crop	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955
				SAC	RAMENTO R	IVER SYST	EM				
Sacramento River	General	117556	121590	149734	143495	152817	162233	142931	134911	139806	165713
Redding to Sacramento	Rice	124135	123981	124117	137269	108479	140835	139053	164611	184938	136355
Colusa Trough (a)	Oeneral	3030	1035	3249	3140	4933	4053	5144	3519	2807	4936
Above Highway 20	Rice	3694	6574	4745	5561	5150	6640	7279	11006	117 9 1	6968
Back Borrow Fit	Oeneral	2062	2295	2455	1272	3227	2855	2698	2918	2473	3734
Highway 20 to Knights Landing	Rice	7880	9044	7079	9003	5925	6973	5896	6400	5195	4004
Knights Landing Ridge Cut	General	1170	1975	685	880	996	3174	3052	1089	2001	4089
Knights Landing to Yolo By-Pass	Rice	2795	1087	1265	1220	757	1970	540	1645	2105	2215
Yolo By-Faas	General	620	1241	1023	860	650	475	715	1418	1955	1025
Above Highway 40	Rice	200	1895	1000	930	1168	1390	0	600	745	872
Lower Butte Creek (a)	Oeneral	8247	4524	4647	7136	7195	6984	8656	6944	8173	8366
and Butte Slough	Rice	1846	1115	660	1875	1537	1702	2850	2563	3883	3177
Sutter By-Pass and (a)	General	9380	8841	7918	8303	11651	11118	10060	11078	11418	11583
Sacramento Slough	Rice	4925	3211	2635	6184	4479	6114	5575	7446	7993	6183
Feather River	Oeneral	27189	28264	29534	31022	34013	31185	30292	29062	28859	34432
Oroville to Mouth	Rice	51082	49749	43258	51131	41331	56503	57888	64122	64776	47713
Yuba River	General	8872	8282	8716	8838	10005	9635	9803	9116	8637	9102
Smartville to Mouth	Rice	1956	3630	3115	3300	2641	3415	3603	5304	6080	4692
Bear River Wheatland to Mouth	General Rice	NOT COVE	RED FRIOR	TO 1949	974 0	705 0	725 0	50 0	50	161 0	290 0
American River	Oeneral	2893	3670	3628	3865	4000	4834	4556	4572	4632	4444
Pair Oaks to Mouth	Rice	0	0	0	0	0	0	0	0	0	0
				SAN	JOAQUIN R	IVER SYST	EM				
San Joaquin River (b)	General	265888	296245	285884	288751	295874	240107	280397	264929	196302	232116
Friant to Fremont Ford	Rice	9727	10563	8670	14638	11705	9493	17031	21949	24067	20582
San Joaquin River	General	43094	43076	46385	45781	48114	48745	47394	51635	49994	50845
Fremont Ford to Vernalis	Rice	1396	1355	535	625	390	730	623	1501	2479	722
Fresno Slough and	General	19145	17421	19706	22671	19184	23537	24076	23541	26764	23639
James By-Pass	Rice	1868	2698	1579	4081	2815	1700	2996	7609	9545	5131
Merced River (c)	General	4484	5912	6494	7941	7912	8088	7465	7431	8394	8580
Snelling to Mouth	Rice	0	0	0	0	0	0	0	0	0	0
Tuolumne River (c)	General	3564	3761	3745	4406	4690	4497	4788	5283	5758	6289
La Grange to Mouth	Rice	0	0	0	0	0	0	0	120	140	0
Dry Creek Waterford to Mouth	General Rice	NOT COVE	RED PRIOR	T O 1949	421 0	435 0	429 0	467 0	481 0	483 0	471 0
Stanislaus River (c)	General	6343	6598	7916	8548	8445	8336	7769	8904	9289	10040
Melones to Mouth	Rice	0	0	0	0	0	0	0	0	0	0
				OELTA	UPLANDS A	ND TRIBUT	ARIES				
San Joaquin River - Delta Uplands	Oeneral	24505	25122	25551	26946	26604	26609	24752	27272	27358	27629
Vernalis to Stockton	Rice	0	0	0	0	0	0	0	0	0	0
Old San Joaquin River (d)	General	34263	37859	40301	42187	40234	40110	39151	41265	40739	41517
Delta Uplands	Rice	0	0	0	0	0	0	0	0	0	0
Tom Paine Slough	General	5733	5278	5077	5207	5221	4745	5213	5387	5467	5518
Delta Uplands	Rice	317	546	468	383	364	411	0	0	0	0
Cosumnes River Michigan Bar to Mouth	General Rice	NOT COVE	 RED PRIOR 	TO 1949	1791 0	1608 0	1711 0	2110 0	3074 190	3767 190	3491 266
Mokelumne River Clements to Delta	General Rice	NOT COVE	 RED PRIOR 	T O 1949	344 0	331 0	18718 1645	18971 1585	20197 1937	20009 2592	22818 291
Calaveras River Jenny Lind to Delta	Oeneral Rice	NOT COVE	RED FRIOR	то 1949	3571 0	4420 0	5300 0	6158 80	7664 415	9025 471	10184 258
					TOTAL ABO	VE DELTA					
Sacramento River System	General	181019	181717	211589	209785	230192	237271	217957	204677	210922	247714
	Rice	198513	200286	187874	216473	171467	225542	222684	263697	287506	212179
San Joaquin River System	Oeneral	342518	373013	370130	378519	384654	333739	372356	362204	296984	331980
	Alce	12991	14616	10784	19344	14910	11923	20650	31179	36231	26435
Delta Uplands and Tributaries	Oeneral	64501	68259	70929	80046	78418	97193	96355	104859	106965	111157
	Rice	317	546	468	383	364	2055	1665	2542	3253	815
Grand Totals	General	588038	622989	652648	668350	693264	668203	686668	671740	614871	690851
	Rice	211821	215448	199126	236200	186741	239520	244999	297418	326990	239429

Figures for General Cropa include acreage flooded for gun clubs. Figures exclude acreages irrigated from Madera and Friant-Kern Canals. Figures exclude acreage in Merced, Turlock, Modesto, Msterford, Gakdale, and South San Josquin Irrigation Districts. Figures exclude acreage irrigated from Delta-Mendota and Contra Costa Canals. (a) (b) (c) (d)

TABLE 9

RELATION OF GAGE HEIGHT TO STREAM PLOW - 1955 SEASON SACRAMENTO-SAN JOAQUIN VALLEY STREAM GAGINO STATIONS

		Qag	ge Height,	U.S.E.D. e	elevation,	for rated	flowa of:		
STATION	4000 cfa	5000 cfs	6000 cfa	7000 cfa	8000 cfa	9000 cfa	10000 cfs	12000 cfa	14000 cfs
Sacramento River at Sacramento at Wilkins Slough at Coluaa at Butte City at Hamilton City near Red Bluff (a)	25.1 39.3 70.0 127.0 253.5	Flows unde alope-velo 26.6 40.3 70.5 127.5 254.0	er 30000 cf city metho 11.4 28.0 41.3 71.0 127.9 254.4	Sa are affe da not app 12.0 29.4 42.3 71.5 128.3 254.8	cted by th licable to 12.7 30.7 43.3 71.9 128.7 255.2	dal action this tab 13.3 32.0 44.3 72.3 129.1 255.5	n and are le. 33.2 45.2 72.7 129.4 255.9	rated by 14.9 35.8 47.0 73.5 130.0 256.6	15.9 38.0 48.8 74.3 130.6 257.2
	200 cfs	500 cfs	1000 cfs	2000 cfs	3000 cfs	4000 cfa	5000 cfa	6000 cfa	7000 cîa
Feather River near Oroville (a) at Nicolaus			186.9 21.8	189.2 22.9	191.0 23.9	192.7 24.8	194.3 25.6	195.8 26.2	197.2 26.9
American River at Fair Oaks (a)	66.7	67.2	67.8	68.7	69.5	70.1	70.7	71.1	71.5
San Joaquin River near Vernalis at Hetch Hetchy Croasing near Grayson	4.9	5.6 18.8 27.6	6.6 20.0	7.9	9.1 22.9	10.1	11.1	12.0	12.9
near Newman at Fremont Ford	52.7 59.3	53.7 60.9	29.2 54.9 62.6	31.6 56.7 65.2	33.6 58.3 67.2	35.4 59.6 68.8	60.7	61.7	62.6
Merced River at Cressey Bridge (b)	2.0	3.4	5.0	7.3	9.2	10.8	12.3	13.6	14.8
Tuolumne River at Modeato (a)	36.1	37.3	39.0	41.5	43.5				
Stanislaus River at Ripon (a)	37.9	39.6	41.7	45.1	48.1	50.7	52.8	54.2	55.0

(a) U.S.O.S. datum.

(b) Assumed datum.

TABLE 10

FLOW OF SACRAMENTO RIVER AT DELTA (a) - 1955

Date					Daily	Mean Flow	v in Second	-Faat				
Jaco	Jan.	Fab.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 うよち	634 602 570 550 540	992 872 800 731 695	550 5555 5605 521	1130 1030 937 866 807	1650 1740 1780 1700 1870	743 701 684 695 690	300 297 308 322 300	194 189 187 187 185	162 162 162 160 158	178 178 176 178 178	189 194 194 194 198	435 409 374 347 370
6 7 8 9 10	516 502 497 516 493	656 640 634 640 624	512 526 560 596 640	781 788 826 892 898	2280 2460 2410 2200 2080	651 607 575 540 512	290 280 277 277 294	180 180 178 178 178	158 158 158 160 160	178 178 178 176 201	198 194 189 187 187	565 502 512 814 590
11 12 13 14 15	474 470 466 452 474	618 618 634 662 678	656 695 707 673 629	852 814 820 894 749	2060 1990 1780 1510 1350	512 479 461 470 461	274 260 248 242 235	174 172 169 172 172	160 158 158 246 220	209 198 194 191 189	187 189 212 209 195	550 550 585 560 535
16 17 18 19 20	461 466 507 512 474	713 807 755 713 678	607 596 585 590 575	737 737 701 743 1390	1250 1260 1400 1600 1800	435 418 405 385 366	232 232 232 232 229 223	172 172 172 171 167	204 198 194 189 187	187 185 185 187 189	223 220 274 1250 2490	624 748 5390 11800 9800
21 22 24 24 25	470 488 540 585 590	640 624 590 580 570	570 565 570 585 656	3130 2750 2060 1840 2030	1720 1430 1260 1170 1060	355 351 347 344 344	220 218 215 209 206	169 167 165 163 163	183 180 180 180 180	187 187 187 185 185	1270 612 535 179 1448	17600 26700 15400 7160 6540
26 27 28 29 30 31	596 618 634 651 852 964	624 602 550	713 768 950 2070 1460 1190	2340 1880 1690 1600 1530	992 937 892 898 885 814	332 322 325 325 311	206 212 209 204 201 196	165 163 163 163 162 162	178 180 180 180 180	191 189 189 187 187 187	418 448 479 401 420	7720 5310 3690 2910 2400 2080
Meen	554	677	709	1275	1556	472	247	173	177	180	432	4310
Ac+Ft	34040	37590	43590	75850	95660	28060	15170	10620	10540	11450	25690	265000
Maximum Discher				December 2 ember 22, 1					Total Runoff in Acre-Feet		ndar Year Year	653260 497770

U. S. Geological Survey and U. S. Burcau of Reclamation cooperative station located U.D miles southeast of Delte, California and about three miles upstream from Shesta Lake. Period of record 1944 to dete. Records for 1955 computed by U. S. Qeological Survey. (a) Atore Shesta Lake.

- Th	Δ	R	TE	11	
	n,	2			

FLOW OF PIT RIVER NEAR MONTGOMERY CREEK - 1955

					Daily	Mean Flow	in Second	-Feet				
Date ,	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	2670 2300 3010 31440 3090	3760 3340 3230 3190 2020	3290 3280 3250 3470 2330	3920 4360 2540 2740 3500	4260 4230 4930 5030 4840	3700 3400 3100 1690 1130	2320 1340 1000 1270 2880	2570 2890 2860 2780 2630	2690 2780 1790 704 854	1840 2110 2260 2310 2370	2390 2600 2530 2590 2570	2810 2990 2770 2590 2760
6 7 8 9 10	2530 3120 1670 1800 2870	1500 2540 2710 2860 2910	1310 3120 3470 3390 3490	3630 3780 3870 2950 1330	4660 4680 3560 4260 3900	3020 3270 2910 2670 2810	3080 2990 3260 960 868	861 668 2530 2640 2640	2760 2760 2870 2940 1090	2720 1420 768 640 2570	2540 2520 2560 2560 2580	2970 2830 2990 3600 3000
11 12 13 14 15	3010 3050 2980 2900 1800	2760 2980 2860 2840 2840 2760	3950 3660 2630 3320 4180	3090 3650 3640 3220 3190	4240 4500 4260 4000 2680	1150 1000 2710 2800 2590	2770 2620 2960 2960 3090	2550 2630 768 674 2440	859 2200 2280 2580 2440	2460 2630 2580 1870 1270	2530 2580 2560 2090 2040	2810 3110 2140 2830 2890
16 17 18 19 20	1340 2850 3790 3780 3410	2950 2910 3390 3910 3690	4090 4160 4080 3580 2410	3360 3640 3950 3760 5030	3°70 3310 3730 3730 4020	2840 2940 1560 1160 3020	1230 743 2480 2960 2370	2620 2560 2570 2370 1420	2650 2350 1510 2570 2830	2650 2440 2590 2640 2530	2010 1960 2190 2300 4640	3330 4000 6350 12000 14500
21 22 23 24 25	2760 1120 882 3120 3240	3420 3260 3360 3530 3350	2620 3160 3360 2090 3320	5810 5880 4890 3800 4780	2590 2620 3250 3210 3370	3470 3010 3060 2800 1210	2660 2640 1550 719 2530	730 2530 2770 2650 2350	3640 3750 3720 2830 816	2670 2600 2400 2580 2500	3960 2840 2960 2660 2930	19900 28600 32000 23600 21700
26 27 28 29 30 31	3290 3400 3470 2550 1230 31 3 0	2440 3580 3090	2960 1490 4130 4610 4470 4360	5400 5120 4930 5120 5030	3510 3910 1620 1100 1250 3500	795 2510 3100 3120 3060	2900 2500 2800 2680 709 708	1930 758 656 2810 2870 2710	2990 2460 2580 2180 2400	2620 2640 1770 1050 1160 2960	2590 2800 2740 2680 2730	21000 18900 15100 12100 9410 8550
Mean	2697	3041	3343	3997	3636	2524	2147	2159	2363	2181	2638	9498
Ac-Ft	165800	168900	205500	237800	223600	150200	132000	132800	140600	134100	157000	584000
Maximum Dischar		r year 37, ord 37,100	100 c.f.s. c.f.s. Dec	December amber 23,	23,1955 1 955				Total Runo in Acre-Fe		nder Year r Year	2432300 2062900

U. S. Geological Survey and U. S. Bureau of Reclamation cooperative station located about three miles up-stream from Shasta Lake. Period of record 1944 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 12

FLOW OF MCCLOUD RIVER ABOVE SHASTA LAKE - 1955

					Daily	Mean Flow	in Second	-Feet				
Date	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ことうしょう	1280 1270 1240 1220 1220	1480 1420 1360 1320 1280	1200 1200 1200 1190 1180	1710 1640 1560 1500 1460	2100 2130 2200 2250 2240	1420 1390 1380 1370 1360	1060 1060 1070 1060 1050	952 958 952 946 940	910 916 910 910 910	904 904 904 904 904	892 892 892 892 898	1020 1010 982 958 988
6 7 8 9 10	1200 1200 1200 1210 1210	1200 1230 1220 1220 1210	1170 1180 1200 1230 1290	1420 1400 1390 1390 1390	2350 2460 2450 2360 2260	1360 1340 1320 1290 1270	1040 1030 1020 1020 1020	940 946 940 940 940	910 916 916 916 916 916	898 892 892 892 910	892 892 886 380 880	1070 1040 1080 1270 1160
11 12 13 14 15	1180 1180 1170 1160 1180	1210 1210 1210 1220 1230	1320 1380 1400 1360 1320	1380 1360 1360 1360 1360 1340	2220 2190 2120 1950 1890	1240 1240 1220 1220 1220	1010 1010 1000 994 988	940 934 928 934 928 928	916 910 916 964 952	910 910 904 904 904	880 886 910 892 880	1120 1130 1130 1120 1100
16 17 18 19 20	1180 1170 1200 1200 1180	1260 1310 1300 1280 1260	1290 1270 1250 1240 1240	1320 1400 1370 1430 1950	1800 1750 1730 1750 1750	1190 1180 1170 1180 1180 1160	988 982 982 982 982 976	928 928 934 928 928 922	934 940 934 928 922	904 898 898 898 904	910 898 934 1300 2380	1180 1270 3900 12200 26700
21 22 23 24 25	1170 1170 1180 1190 1200	1240 1220 1210 1200 1200	1220 1210 1210 1220 1220 1240	3100 3200 2760 2490 2560	1820 1790 1730 1690 1630	1150 1140 1130 1100 1090	970 970 964 964 976	922 922 922 922 922 916	916 916 910 910 904	898 898 892 898 898	1740 1190 1110 1060 1030	36100 33900 21000 10400 7090
26 27 28 29 30 31	1200 1210 1220 1230 1290 1380	1270 1240 1210	1260 1300 1490 2180 2050 1300	2730 2460 2270 2180 2110	1590 1560 1530 1520 1500 1460	1080 1080 1070 1080 1070	976 958 958 958 958 958 958	922 916 010 916 916 910	904 910 910 910 910	910 898 898 892 892 892 886	1000 994 1000 1000 <u>988</u>	8180 7220 5260 4260 3710 3340
Mean	1209	1260	1332	1833	1931	1217	998	931	918	900	1029	6513
Ac-Ft	74340	69980	81880	109100	118700	72400	01380	57230	54620	55330	61250	400400
Maximum Dischar				December emper 22, 1					Total Runof in Acre-Fee		ndar Yeer r Year	1216610 <u>945310</u>

U. S. Geological Survey and U. S. Bureau of Reclamation cooperative station located about four miles upstream from Shesta Lake. Period of record 1,45 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 15 PLOW OF SQUAR CREEK ADD.E SHASTA LAKE - 1955

Date					Deily	Mean Plow	in Second	-Faet				
pare	Jan.	Feb.	March	April	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	105 100 94 90 85	371 298 240 202 177	119 122 126 133 130	129 121 115 109 104	502 474 471 447 418	94 92 85 85 82	48 49 50 46	25 25 24 23	16 16 15 15	16 16 16 15	16 16 16 10 17	76 71 64 56
6 7 8 9 10	81 79 77 79 76	100 148 138 136 130	124 130 143 162 177	100 97 95 93 91	405 394 360 326 298	78 77 75 73 71	45	22 22 22 22 22 21	14 14 14 15 14	15 15 15 15 17	10 17 10 16 16	158 133 126 355 186
11 12 13 14 15	73 70 70 60 71	126 123 124 124 124	180 162 177 165 152	80 86 87 85 81	275 253 234 210 200	70 70 68 68 68	41 39 39 37 36	21 20 20 20 19	14 14 14 21 25	19 18 16 16 16	10 16 20 23 21	14.0 12.9 110 103 91
16 17 18 19 20	71 70 78 85 82	131 144 134 126 118	141 134 129 123 116	80 134 115 150 672	107 176 168 158 151	65 63 61 59 56	35 35 34 34 33	19 18 18 18 18	20 20 19 18 18	15 15 15 10 16	24 25 43 139 680	129 204 1720 5160 5470
21 22 23 24 25	79 79 88 105 112	112 100 100 97 95	11 ! 106 103 101 100	1550 1570 1060 765 716	144 137 133 127 122	57 56 55 55 54	32 31 30 30 28	18 18 18 17 18	18 17 16 16 16	16 16 16 16 10	255 95 82 80 78	9140 11200 8870 2400 1490
26 27 28 29 30 31	130 148 156 156 182 247	121 145 127	99 100 122 162 148 134	750 663 579 514 520	117 111 109 104 100 97	52 51 51 49	28 20 28 27 26 26	18 17 17 17 17 16	16 16 16 16 10	19 18 16 16 10 16	68 67 70 68 61	1670 1550 1150 895 742 620
Maan	99.5	149	134	379	239	66.5	36.6	19.8	16.5	10.1	70.0	1686
Ac-Ft	6120	8280	8240	22540	14710	3960	2250	1220	982	990	4170	103700
Maximum Dischar		yaar 17,8 d 17,800 d	800 c.f.s. c.f.s. Dac	Decamuar empar 21,	21, 1955 1955				Total Runoff in Acra-Feat		ndar Year r Year	177162 80152

U. S. Geological Survey and U.S. Bureau of Reclamation cooparative station located about two miles "pstream from Shwata Laka. Period of record 1944 to data. Records for 1955 computed by U. S. Geological Survey.

TABLE 11

INFLOW TO SHASTA LAKE - 1955

Data					Daily	Mean Flow	in Sacond	-Feat				<u> </u>
Dara	Jan.	Feb.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 245	>310 4740 5570 5630 54∘0	8180 7060 6590 6480 5130	5820 5090 5970 5770 4710	7460 7670 5610 54-0 6420	10190 10500 11150 11100 10540	0430 6120 5600 4400 4080	3370 3070 2020 2050 4340	3440 4240 4230 3410 3750	3660 3750 2630 18-0 1710	3230 3050 3370 3400 3570	3530 3700 3740 369 3790	2040 46 0 4-10 4060 4-30
6 7 8 9 10	5350 5100 3820 4500 4080	4310 5460 5190 5190 5130	3670 5570 5010 62 0 6360	6230 66-0 6600 5790 4100	11210 11130 10110 10470 9730	5290 5390 4390 4300	4530 4480 4720 2650 2330	2040 1470 3750 3710 3350	3 50 3620 3970 3930 2500	3 '00 2720 1900 .600 4610	3150 3770 3100 3650	7660 - ~60 7 20 3350 - 220
11 12 13 14 15	5110 5020 5300 4770 4630	5420 5420 5480 5380 5580	6 '20 ' 510 5340 6220 ' 740	5580 6350 6350 5760 5780	9780 9770 9210 8430 6760	3550 3330 1,750 4600 4,240	4240 3330 4620 4510 4520	3550 3770 2010 1840 3330	1560 32d0 3346 L150 3620	3560 3150 050 3200 2430	3656 3600 4740 3.90 2970	5520 5300 50 5170 5410
16 17 18 19 20	3610 6080 7620 740 6450	5740 5730 6030 7450 6210	6320 6570 620 6020 .960	57d0 7030 (750 5750 15910	7960 722 7730 7840 8450	4890 4300 3530 2770 4370	2690 2230 3400 4410 3090	3650 3520 3650 3650 3650 2450	36 0 3420 2720 3610 3 60	3730 3470 3 00 3 40 3750	4150 3500 4830 8000 1740	7050 9200 34240 75240 42250
21 22 23 24 25	530 3730 3300 6090 5000	5730 5730 5800 5770 5660	4910 5520 5530 5240 577(25410 21410 15430 15460	7020 6430 6900 6600 €840	5310 4420 4900 4200 2500	3910 3920 3020 1890 3840	2050 - 750 - 4000 3790 - 3300	740 4000 1700 4240 51800	3/0 3670 3530 360 3980	200 5290 6640 5170 5240	110820 140880 100560 1500 45370
26 27 28 29 30 31	66.0 6740 6750 71 0 71 0	74 0 (430 5620	5400 4310 7460 10470 866 7 30	15130 13310 12470 11750 11380	C470 7C10 .950 3490 3910 5950	2400 3730 4570 430 4510	3930 4080 4040 3380 2 60 2110	2080 1 30 1540 3670 3 30 3 420	4230 337 3990 3310 3140	3670 3610 3340 2 20 2180 3 40	4550 1410 1700 1410 1410 14120	7710 20790 20780 24050 15460 17990
Mean	512	5 61	611	2668	82h5	15/12	3561	322.	3474	345	1432	RC ↓07
Ac-Pt	33 1 440	32976	37581	176290	E JE OMF	2702.0	21396-	199210	26, 0	- 58 W	243.4.	100000
Maximum Dischar	ga of rec	ar year da: ord daily	lly mean 11	U U C . I	.a. Decemie Decemier 22	r 22, 1955 , 1955		Т	Total Runoff in Aore-Peet		ndar Year r Year	523734C

These qualifies are in that must be deferred to the the these these areas is 0005 aguare miles. Period of record 1/44 to date. (a) 25-hour my

00	10	LE	15
- ±	нo	فلانك	~~~

DAILY CONTENT OF SHASTA LAKE IN ACRE-FEET - 1955

				Stora	ge at end o	f day in th	nousands c	of acre-fee	t			
Date	Jan.	Feb.	March	April	Mey	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 2 3 4 5	3192.8 31<0.2 3189.0 3187.9 3186.7	3194.2 3200.4 3206.3 3210.4 3213.4	3255.7 3259.5 3265.5 3271.0 3273.5	3422.5 3429.7 3433.4 3436.1 3440.6	3689.2 3699.7 3711.2 3722.4 3732.9	3806.6 3305.0 3802.1 3796.6 3789.1	3546.1 3529.9 3512.6 3495.7 3481.7	3078.2 3063.7 3049.5 3034.6 3019.8	2659.8 2649.6 2638.3 2624.9 2611.3	2450.5 2445.8 2441.1 2436.8 2433.0	2329.2 2326.6 2323.c 2321.2 2318.2	2361.0 2364.3 2366.6 2368.9 2376.8
6 7 8 9 10	3185.3 3182.7 3178.0 3175.1 3173.0	3214.1 3216.8 3220.1 3222.7 3225.8	3275.1 3279.9 3285.5 3291.7 3298.3	3443.8 3447.0 3440.5 3450.3 3448.5	3714.0 3755.6 3766.1 3771.8 3783.1	3784.1 3779.9 3775.1 3769.3 3763.5	3468.2 3454.7 3441.6 3424.5 3406.9	3001.6 2983.1 2967.8 2953.0 2938.4	2602.4 2592.8 2584.8 2577.7 2567.1	2429.3 2423.1 2414.1 2407.3 2403.9	2316.3 2313.1 2310.0 2307.4 2304.4	2386.3 2391.1 2400.0 2410.6 2416.8
11 12 13 14 15	3171.4 3160.0 3167.4 3164.5 3162.0	3228.0 3228.7 3229.4 3229.5 3230.1	3305.5 3312.2 3317.1 3323.1 3330.4	3447.0 3446.0 3446.3 3444.5 3444.5 3441.6	3792.6 3801.1 3307.7 3811.6 3813.0	3754.8 3745.0 3738.2 3731.4 3724.0	3392.9 3378.7 3365.0 3351.8 3330.2	2924.2 2910.2 2392.9 2375.1 2860.4	2555.3 2546.6 2538.1 2532.2 2525.0	2399.8 2396.5 2394.0 2389.8 2384.5	2301.3 2297.9 2297.8 2294.0 2289.8	2421.9 2427.4 2432.6 2436.6 2436.6 2441.5
16 17 18 19 20	3157.0 3157.0 3160.8 3165.5 3167.1	3231.3 3233.7 3234.2 3236.5 3236.5 3239.4	3337.7 3344.3 3351.1 3350.7 3360.3	3430.8 3435.1 3435.1 3438.1 3443.8 3465.7	3815.1 3315.4 3816.7 3817.7 3820.1	3716.7 3709.3 3699.2 3686.1 3677.5	3320.7 3302.0 3286.9 3273.2 3258.8	2846.6 2833.3 2820.7 2809.0 2795.6	2519.0 2511.9 2504.3 2497.7 2492.9	2381.0 2378.3 2375.8 2373.1 2370.4	2289.8 2288.3 2289.1 2297.4 2326.7	2449.0 2461.6 2525.4 2668.5 2845.3
21 22 23 24 25	31c 5.7 3161.5 3157.5 3158.0 3161.7	3240.6 3241.6 3242.3 3243.2 3243.5	3364.2 3367.9 3371.3 3373.8 3376.7	3509.5 3543.6 3566.5 3531.7 3602.2	3819.6 3817.7 3817.2 3818.3 3819.1	3669.8 3660.7 3651.6 3640.2 3625.6	3243.7 3225.4 3213.9 3196.1 3182.0	2782.2 2770.2 2760.6 2750.5 2739.6	2490.9 2489.0 2487.0 2483.4 2475.8	2367.7 2364.8 2361.4 2359.2 2356.8	2336.8 2339.9 2344.7 2347.7 2350.2	3077.0 3342.6 3512.0 3557.8 3592.0
26 27 28 29 30 31	3166.4 3171.4 3176.1 3179.6 3180.8 3186.7	3248.3 3250.c 3252.8	3379.2 3370.9 3386.8 3399.6 3408.7 3416.1	3622.7 3639.0 3653.2 3666.t 3678.3	3(19.6 3820.9 3818.5 3813.5 3808.7 3808.7	3609.9 3597.1 3585.6 3574.4 260.0	3168.3 3154.0 3141.6 3128.0 3110.6 3093.2	2723.2 2711.4 2700.2 2689.7 2680.0 2670.2	2472.5 2467.7 2463.8 2450.6 2455.3	2353.7 2350.8 2346.8 2340.7 2334.9 2332.3	2351.6 2352.7 2354.3 2355.8 2357.1	3617.1 3603.5 3560.8 3525.4 3472.4 3446.1
Monthly Change	-7.5	+66.1	+163.3	+262.7	+128.6	-246.5	-467.7	-423.0	-214.9	-123.0	+24.8	+1059.0
		Annu Difí	al tain or erences in	loss in s storage l	torage: Ce .954 to 195	elend ar Yea 5: Maximum	r +221,90 s -643,80	0; Water Y 0: Minimum	ear -601,5 s -643,0	00 Acre-Fe 00 Acre-Fe	et at	

Period of record 1944 to date. Records for 1955 computed by U. S. Bureau of Reclamation.

					Daily	Mean Flow	in Second	-Feat				
Date	Jan.	Feb.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dac.
コットル	6350 6380 6350 6380 6360	4310 4310 4040 3970 4000	5140 4080 3150 3130 3120	4190 4180 4200 4220 4200	5370 5570 5500 5490 5430	68140 6850 7100 7320 7690	11200 11200 11300 11200 11200 11300	11000 11300 11400 11400 11400	8790 8790 8660 8580 8550	5640 5640 5640 5620 5620	5210 4770 5110 5140 5140	3580 3200 3150 3140 3210
6 7 8 9 10	6340 6350 6340 6320 6320	3990 3980 3970 3970 3970 3960	3090 3100 3090 3100 3120	4380 4920 5380 5390 5390	5490 5480 5510 5490 5430	7720 7740 7720 7740 7740 7750	11200 11200 11200 11200 11200 11200	11400 11400 11400 11300 11300	8580 8350 7930 7740 7710	5780 5820 5840 5780 5820	5120 5140 5070 4970 5190	3290 3180 3170 3150 3140
11 12 13 14 15	6290 6280 6330 6340 63 3 0	3970 5270 5300 5300 5330	3100 3110 3100 3140 3130	6100 6370 6710 6850 7290	5400 5410 5650 6370 6370	7960 6160 8160 8180 8200	11200 11200 11200 11200 11200 11200	10800 10800 10800 10800 10800	7690 7740 7500 7280 7280	5840 5360 5240 5260 5240	4980 4960 4940 5000 4980	3130 3120 3110 3110 3120
16 17 18 19 20	6360 6410 6520 71420 61460	5320 5300 5290 5310 5300	3140 3140 3140 3130 3130	7320 7310 7290 6840 5430	6850 7280 7280 7270 7280	8350 8510 8530 9250 9090	11200 11200 11200 11200 11200 11300	10500 10200 9890 9700 9240	7010 6840 6810 6850 6580	5240 5240 5240 5240 5240 5260	4270 4280 4010 4070 4160	3110 3140 3870 8360 6660
21 22 23 24 25	6450 6420 6390 6350 4330	5280 5300 5330 5320 5340	3130 3350 4080 4100 4110	5310 4390 4320 4600 5750	7230 7290 7280 6230 6160	9000 8900 9360 9940 10200	11300 11000 10700 10700 10800	8660 8710 8760 8790 8790	6290 5770 5740 5800 5710	5220 5240 5240 5240 5280 5240	4080 4110 4180 4170 4130	9590 12200 17200 29900 29600
26 27 28 29 30 31	4340 4340 4350 4320 4320 4340 4340 4330	5330 5340 5300	4100 4140 4090 4150 4190 4200	5430 5430 5420 5410 5410	6240 6190 6330 6330 6330 6600	10200 10300 10200 10800 11300	10800 10800 10800 10800 10800 10800	8790 8790 8820 8820 8800 8800 8820	5780 5760 5760 5590 5570	5260 5270 5260 5240 5210 5210	4100 4090 4150 4040 3690	35900 48400 48300 48000 47200 46900
Mean	594 2	4812	3516	5514	6198	8635	11080	10110	7101	5420	4575	14390
Ac-Ft	365400	267200	216200	328100	381100	513800	681500	621500	422500	333300	272200	884900
Maximum Dischar	calendar rge of recor	year 51,1 d 186,000	LOO c.f.s. c.f.s. Fa	Decemuer Lruary 28,	28, 1955 1940				Total Runoff in Acre-Feet		dar Ysar Ysar	5287700 4782200

TABLE 16 FLOW OF SACRAMENTO RIVER AT KESWICK - 1955

U. S. Geological Survey and Division of Watar Resources cooperative station located at Mile 250.5 above Sacramento. These flows include releases from Shasta Reservoir. Dreinage area is 6,710 square miles. Pariod of record 1938 to date. Records for 1955 computed by U. S. Geological Survey.

			TABLE	17			
FLOW	OF	SACRAMENTO	RIVER	NEAR	REDDING	-	1955

Date					Dail	7 Mean Flow	v in Second	l-Feet				
Date	Jan.	Fab.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 3-45	6440 6440 6420 6470 6470	4400 4360 4130 4040 4090	4290 4110 3230 3060 3060	3570 3550 3570 3610 3610	4930 5130 4950 5000 4950	6310 6310 6520 6810 7200	11000 11000 11000 11000 11000	10700 11000 11000 11000 11000	8350 8350 8210 8090 8090	5150 5110 5110 5130 5130	4860 5040 5040 5020 4970	3800 3300 3280 3280 3610
6 7 9 10	64 70 6440 6420 6440 6440	4070 4040 4020 4040 4040	3010 3030 3030 3050 3050	3660 4230 4750 4720 4750	44999500 99995600	7200 7230 7230 7260 7230	11000 11000 11000 11000 11100	11000 11000 11000 10900 10900	8090 7980 7520 7230 7230	5150 5390 5440 5350 5440	4970 5040 5110 5060 5080	-940 3390 3470 3510 3410
11 12 13 14 15	6360 6360 6360 6390 61420	4020 5130 5320 5350 5350	3050 3050 3010 3050 3050	5300 5690 5950 6130 6550	4860 4840 4930 5840 5870	7430 7690 7690 7660 7690	11100 11200 11200 11200 11200	10400 10400 10300 10300 10300	7230 7230 7110 6360 6810	5490 5250 4880 4840 4820	5080 5060 5130 5130 5200	3380 3360 3340 3340 3340 3340
16 17 18 19 20	6440 6470 6810 8120 6700	5370 5350 5300 5350 5350	3050 3030 3030 3030 3030 3000	6620 6650 6650 6390 4970	6420 6860 6810 6750 6730	7860 8090 8090 8730 8570	11200 11200 11300 11200 11200	10000 9720 9460 9210 8800	6620 6360 6390 6390 6180	4860 4860 4860 4860 4880	4620 4570 4380 4380 4930	3380 3550 4560 5810 7430
21 22 23 24 25	6490 6420 6420 6390 4620	5320 5350 5370 5350 5350 5390	3000 3150 3860 3840 3960	4880 3940 3700 3860 5130	6730 6750 6700 5740 5640	8540 8480 8890 9560 9910	11200 10900 10600 10600 10600	8180 8150 8210 8240 8240	5900 5300 5320 5320 5200	4930 4880 4860 4900 4900	11140 11140 4530 4360 11400	*10200 *18000 *24000 *31000 *31000
26 27 28 29 3 0 3 1	14110 14120 14100 14100 14100 14100	5420 5390 5350	3700 3550 3510 3570 3550 3550	5020 4930 4950 4950 4930	5690 5660 5820 5840 5790 6050	9910 9940 9910 10400 11000	10600 10600 10500 10500 10500 10500	8260 8260 8260 8290 8350 81440	5320 5320 5320 5300 5130	4950 4930 5000 5000 5040 4970	4380 4360 4380 4290 3880	≥37500 *1.8600 *1.8100 *1.7700 *1.6500 *1.6200
Mean	6053	4859	3307	4905	5673	8181	10940	9654	6658	5044	4738	15140
Ac-Ft	372200	269800	203300	291900	348800	486800	672800	593600	396200	310100	281900	930800
Maximum Dischar									Total Runoff in Acre-Feet		ndar Year r Year	5158200 4605000

Division of Water Resources station located at Mile 240.7 above Sacramento. Station is located below the diversion dam of Anderson-Cottonwood Irrigation District and is also known as Sacra white River above Churn Creek pumps. Feriod of record 1945 to 1952 and 1954 to date.

TABLE 18

FLOW OF SACRAMENTO RIVER AT BALLS FERRY - 1955

Date					Dail3	Maan Flow	v in Second	-Feet				
Date	Jan.	Fab.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	8940 7940 7460 7330 7240	7720 6030 5440 5200 5150	5180 4850 4120 3780 3780	4390 4370 4300 4300 4260	6810 7190 6910 6650 6460	6730 6760 6940 7220 7520	11000 11000 11000 11000 11000	10400 10800 10700 10700 10700	8270 8240 8190 8080 8050	5180 5270 5230 5250 5230	5300 5080 5110 5110 5110	4350 4020 3810 3760 7910
6 7 8 9 10	7160 7100 7100 71410 8020	5130 4990 4920 4850 4850	3720 3700 3720 3740 3830	4260 4730 5230 5270 5370	6410 6390 6410 6310 6080	7530 7580 7580 7580 7580	11000 11000 11000 11000 11000	10700 10700 10700 10700 10700	8080 7990 7520 7160 7160	5250 5470 5490 5470 5510	5110 5110 5200 5180 5150	20700 6310 5370 9480 5590
11 12 13 14 15	7440 7300 7240 7220 7440	4830 5640 6060 6060 6060	3810 3830 3780 3760 3740	5760 6260 6520 6810 7190	6010 5960 5960 6730 6680	7740 7990 7960 7910 7990	11000 11000 11000 11000 11000	10300 10200 10200 10200 10200 10100	7160 7220 7100 5860 6830	5560 5640 5030 4960 4920	5180 5150 5370 5390 5420	4830 4500 4300 4170 4100
16 17 18 19 20	8650 8080 11700 13500 10700	6080 6210 6080 6010 5960	3720 3740 3680 3640 3580	7300 9300 8470 7960 7440	7130 7410 7460 7520 7520	8130 9380 8330 8880 8970	11000 11000 11100 11000 11000	9980 9620 9390 9060 8820	6730 6390 6410 6390 6240	4960 4920 4940 5010 5010	4920 4800 4800 5200 13900	5180 12100 21100 33200 26000
21 22 23 24 25	8970 8350 8270 8050 6490	5930 5880 5880 5910 5930	3580 3580 4300 4320 4480	11200 10400 7240 6340 7580	7400 7520 7410 6600 6290	8760 8650 8880 9590 9980	11100 10800 10500 10500 10500	8130 8160 8160 8160 8190	5910 5320 5320 5370 5250	5030 5010 5010 5010 5010	11800 5590 5960 6360 5250	22700 46000 40300 32300 34400
26 27 28 29 30 31	5910 5740 5660 5560 5710 6400	6030 6290 6110	4300 4210 4320 4730 4600 4370	530 7270 6970 7580 7330	6340 6240 6340 6360 6290 6390	9980 9980 9950 10300 11100	10400 10400 10400 10400 10300 10300	8190 8190 8190 8190 8220 8220 8220	5350 5320 5300 5300 5300 5180	5060 5080 5080 5080 5080 5080	Lo20 4730 4760 4710 4260	39800 49500 47800 46900 45100 44800
Mean	7746	5758	4016	6564	6686	.17	10830	9505	6656	5155	5664	2660
Ac-Pt	476300	320000	5/16200	396600	411100	500900	666000	584500	396100	317000	337100	1272000
Maximum Diachar	colonda ge	ir year 54,	600 c.f.s.	Dece ber	22, 1.55				Total Runof in Acre-Pee		ndar Year r Year	5921,500 5228300

Division of Water Resources station located at Mile 2.4.5 ab ve Secrate to. Period of record 1945 to 1952 and 1954 to date.

TABLE 19 FLOW OF SACRAMENTO RIVER NEAR RED BLUFF (IRON CANYON) - 1955

Date					Daily	Maan Flow	in Second	-Faat				
Paco	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	11400 9950 8900 8540 8350	9630 7430 6620 6270 6150	6170 5540 5080 4520 4460	5150 5120 5080 5060 5020	8460 8540 8560 8180 8000	7540 7510 7560 7940 8130	11400 11400 11400 11400 11400 11400	10800 11200 11200 11300 11300	8900 8900 8870 8620 8650	5660 5640 5660 5660 5660	5370 5520 5540 5570 5680	4760 4660 4350 4250 7450
6 7 9 10	8100 8000 7940 8080 9600	6000 5860 5800 5700 5660	4360 4350 4330 4400 4600	4910 5230 5730 5930 5960	7890 7940 8020 7970 7700	8290 8290 8270 8240 8270	11400 11300 11300 11300 11300	11300 11300 11300 11300 11300 11200	8650 8620 8210 7780 7750	5700 5820 5910 5890 5980	5570 5570 5610 5610 5570	34500 10400 4720 11800 7970
11 12 13 14 15	8560 8100 8050 7940 8400	5590 6240 6770 6800 6770	4680 4680 4620 4540 4460	6170 6930 7060 7480 7730	7540 7350 7240 7970 7970	8370 8760 8700 8670 8670	11400 11300 11300 11300 11300	11000 10800 10800 10800 10900	7750 7750 7730 7480 7510	5980 6050 5500 5340 5320	5500 5520 5730 5820 5910	6240 5680 5370 5100 4870
16 17 18 19 20	10200 9600 14300 15300 16300	6850 7010 7010 6930 6820	4420 4360 4350 4290 4250	7940 9520 9860 8980 8320	8210 8290 8620 8590 8620	8730 9040 8980 9350 9600	11300 11300 11300 11200 11200	10800 10300 10300 9780 9660	7670 7030 7060 7010 6930	5320 5300 5300 5320 5370	5860 5410 5480 5860 11600	5820 11200 27800 54600 57100
21 22 23 24 25	11000 10000 9690 9400 8100	6750 6720 6670 6700 6700	4180 4210 4720 4890 4930	11300 14000 9660 8160 8650	8590 8590 8560 7940 7270	9350 9230 9260 10000 10400	11200 11200 10800 10800 10800	8840 8810 8840 8840 8840	6440 5890 5820 5820 5820 5730	5450 5390 5370 5340 5390	20600 7290 6820 8290 6240	29300 88500 74900 54700 46000
26 27 28 29 30 31	7140 6880 6700 6540 6670 7210	6670 7040 6980	4950 4850 4980 5500 5590 5280	10700 9040 8510 8840 9230	7270 7140 7160 7210 7160 7140	10500 10500 10500 10600 11400	10900 10800 10800 10800 10800 10900	8870 8870 8870 8900 8870 8900	5860 4800 5800 5820 5700	5450 5430 5450 5480 5500 5520	5680 5410 5340 5300 4890	52500 63900 60800 57200 54900 54000
Mean	9192	6648	4727	7709	7925	9023	11170	10150	7252	5 553	6472	29530
Ac-Ft	565200	369200	290700	458700	487300	536900	686900	624200	431500	341500	385100	1816000
Maximum Dischar	ga of racor	d 291000 c	000 c.f.s. .f.s. Febr	uary 28, 1	940				Total Runof in Acre-Fea	t Water	ndar Year Year	6993200 5878800

U. S. Geological Survey station located near the Iron Canyon dam site at Mile 198.6 above Sacramento. Drainage area is 9,300 square miles. Period of racord 1902 to date. Racords for 1955 computed by U. S. Geological Survey.

TABLE 20

FLOW OF SACRAMENTO RIVER AT VINA BRIDGE - 1955

Data					Daily	Maan Flow	in Second	-Feat				
Dara	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dac.
1 2 3 4 5	15300 13200 11000 10200 9850	12100 10600 9180 8310 7870	7580 6600 6490 5770 5600	6200 6130 6020 5940 5830	9910 9630 10300 9850 9550	8110 8140 8090 8380 8590	11700 11600 11700 11700 11700	10600 10800 11000 11000 10900	8490 8490 8490 8310 8260	5700 5770 5770 5790 5810	5660 5680 5680 5770 5850	5410 5540 5110 5010 5250
6 7 8 9 10	9660 9310 9100 9310 11500	7580 7230 6900 6850 6830	5500 5450 5600 6130	5730 5810 6180 6510 6560	9630 9910 10000 9910 9440	88 80 8910 8880 8860 8810	11700 11600 11600 11600 11600	10900 10900 10800 10800 10900	8230 8230 3010 7650 7500	5770 5900 5960 5980 5980	5850 5830 5900 5920 5350	30200 18700 8990 13200 10700
11 12 13 14 15	10900 9770 9470 9260 9200	6760 6900 7770 7790 7770	6180 6110 6000 5350 5730	6600 7210 7430 7820 7940	9200 9040 3830 9040 9040	8960 9130 9280 9280 9230	11600 11500 11500 11600 11500	10700 10400 10400 10400 10400	7530 7480 7480 • 7310 • 730	6180 6150 5790 5600 5530	5830 5810 6000 6220 6240	7650 6760 6440 6020 5⊴10
16 17 18 19 20	11800 11800 18200 18°00 22000	7790 5140 3260 7990 7890	5580 5520 5310 5150 5050	8250 8750 11200 9850 9600	8910 9120 9520 9520 9600	9200 9420 9440 9520 9970	11500 11500 11400 11300 11300	10400 9990 9820 9500 9340	7280 7180 6900 6880 6810	5540 5540 5560 5580 5580	6330 6000 5900 6110 7900	5830 9850 25700 84400 97400
21 22 23 24 25	14100 12100 11400 11000 10400	7770 7720 7620 7580 7550	5050 5010 5150 5500	13200 18500 12600 10200 9990	9740 9710 -580 -420 -360	9740 9600 580 10200 10700	11200 11200 10900 10800 10700	8780 8510 8460 8430 8460	6560 6150 5940 5900 5870	5620 5620 5660 5700 5700	22600 9800 7260 8990 7260	50100 110000 122000 82900 61200
26 27 28 29 30 31	8730 8360 8180 7990 7990 -380	7580 7820 7 <i>9</i> 20	5620 5520 5770 6350 6810 6380	12500 11000 9990 9850 10600	5160 8040 7960 3010 8010 7940	10800 10800 10800 11100 11500	10700 10700 10700 10600 10600 10600	3460 8460 8460 8460 8490 8510	5830 5850 5850 5850 5850 5770	5700 5750 5640 5640 5680 5680	6460 6070 5960 5870 5700	68700 79400 72600 66600 63100 61000
Mean	11240	7131	5784	300	9192	9468	11290	9786	7114	5739	6877	38760
Ac-Ft	6 1100	440500	355600	53000	565200	563400	694200	601700	423300	352900	409200	2383000
Maximum Dischar	ge of rac	r year 13	3,000 c.f 10 December	.a. Decempe r 28, 1951	r 22, 1955				Total Runoff in Acra-Feet	Calen Water	dar Ysar Year	8003700 6573800

Division of Water Resources and U. S. Bureau of Reclamation cooperative station located at Mile 166.5 above Sacramento. Period of record 1945 to date. Records for 1955 computed by Division of Water Resources.

TABLE 21 SACRAMENTO RIVER AT HAMILTON CITY - 1955

					Daily 1	Mean Flow	in Second-	Feet				
Date	Jan.	Feb.	Merch	April	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	14700 13200 11100 10100 9680	10400 9890 8500 7870 7550	7710 6800 6570 5880 5620	5360 5360 5270 5090 4870	8700 8360 8870 8440 8080	5710 5850 5780 6000 6240	9150 9100 9210 9300 9150	8300 8360 8580 8640 8610	6750 6800 6880 6330 6830	5050 5050 4980 4960 4960	5000 5050 5120 5160	5300 5390 5070 4840 4910
6 7 8 9 10	9410 9100 8950 9040 11200	7370 7180 7080 6930 6880	5480 5340 5320 5410 5950	4610 4440 4650 4890 4800	7980 8190 8240 8030 7550	6600 6600 6500 6370 6440	9040 8980 9010 9010 8980	8610 8730 8730 8670 8610	6850 6980 6880 6620 6600	4060 5090 5200 5340 54 3 0	5160 5120 5160 5160 5160 5020	•27500 •23900 10100 12000 11800
11 12 13 14 15	11000 9770 9380 9210 9150	6830 6800 7580 7790 7820	6120 6050 5950 5760 5620	4840 5230 5430 5710 5780	7240 7080 6930 6960 7260	6600 6780 6930 6930 6780	9010 8950 8900 8950 8950	8,10 8300 8270 8300 8240	6600 6650 6700 6700 6730	5570 5600 5390 5020 5000	4910 4840 5480 6070 6070	6300 7210 6730 6370 5970
16 17 18 19 20	11300 11800 16300 18200 21100	7820 7950 8140 8000 7850	5530 5410 5320 5250 5050	6170 6550 9500 8060 8000	7010 7240 7530 7530 7580	6750 6930 7060 7060 7480	8950 8950 8930 8900 8900	8220 8060 7850 7580 7530	6700 6670 6240 6190 6170	4910 4890 4910 4910 4980	6220 5 180 5780 5780 6730	5950 9160 •23700 *66500 93600
21 22 23 24 25	14500 12300 11500 11100 10600	7740 7610 7550 7500 7530	5000 4780 4550 4960 4890	10200 16200 12000 9180 8640	7550 7580 7580 7370 6420	7370 7290 7180 7480 8060	8870 8780 8640 8470 8500	6960 6650 6570 6570 6650	5930 5620 5230 5160 5250	5050 5020 5050 4960 4980	*22000 11400 7580 8730 7790	53300 82400 107000 86000 60200
26 27 28 29 30 31	8870 8440 8160 8000 7930 8220	7580 7690 7950	4890 4820 4960 5530 6070 5730	10700 10100 8930 8560 9210	6090 5950 5810 5850 5780 5570	8270 8270 8270 8270 3750	8530 8410 8360 8360 8360 8360	6620 6600 6670 6730 6650 6650	5140 5140 5140 5090 5090	4980 4980 5000 5050 4980 4960	6650 6120 5900 5850 5660	62100 74100 68000 62000 58600 56600
Mean	11070	7764	5559	7278	7302	7020	8837	7746	0205	5071	6548	35950
Ac-Ft	680900	431200	341800	433100	449000	417700	543400	476300	369200	311800	389600	2211000
Maximum Diachar				. December Pabruary 28		·			otel Runoff n Acre-Feet	Calen Weter	dar Year Year	7055000 5794700

Division of Watar Resources and U. S. Bureau of Reclamation cooperative station located at Mile 145.5 above Secremento. Feriod of record 1945 to date. Records for 1955 computed by Division of Watar Resources. • Estimated

TABLE 22

FLOW OF SACRAMENTO RIVER AT ORD FERRY - 1955

					Osily	Mean Flow	in Second-	Feet				
Date	Jan.	Feb.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dac.
12345	16400 15600 12600 11400 10700	10700 11300 9490 8660 8220	7910 7130 6780 6220 5780	5470 5430 5330 5250 5140	9260 8730 9130 8880 8480	5980 6140 6060 6160 6390	9210 9110 9310 9360 9390	8580 8600 8880 8880 8880 8860	6800 6840 6870 6890 6820	5130 5070 5040 5040 5020	5180 5200 5200 5250 5310	5960 6000 5760 5490 5470
6 7 8 9 10	10300 9950 9710 9840 12500	8080 7800 7680 7510 7440	5650 5510 5450 5530 5530 5940	4930 4740 4820 5040 5070	8220 8340 8600 8440 8010	6600 6690 6670 6560 6580	9260 9160 9180 9180 9160 9160	8860 8960 9010 8980 8930	6820 6910 6890 6580 6470	5040 5040 5220 5200 5290	5350 5330 5370 5410 5290	21800 30400 11900 12000 13800
11 12 13 14 15	12300 10800 10300 10000 9820	7300 7220 7800 8130 8130	6200 6120 6020 5860 5670	5050 5250 5550 5670 5840	*7460 •7280 7150 7080 7480	6560 6890 7020 7020 6930	9180 9180 9130 9110 9130	8980 8710 8580 8580 8560	6450 6470 6500 6560 6560	5490 5530 5530 5140 5050	5240 5200 5330 6300 6340	9410 7890 7240 6760 6410
16 17 18 19 20	11900 13100 17100 21500 23200	8130 8220 8480 8390 8180	5530 5450 5370 5310 5140	6100 6320 8660 8060 8030	7300 7440 7630 7750 7910	6870 6950 7150 7060 7440	9180 9180 9160 9130 9130	8480 8290 8010 7910 7680	6540 6560 6180 6100 6120	5000 4940 5000 5020 5110	6390 6340 6160 6200 6690	6200 8220 21500 62500 103000
21 22 23 24 25	17500 14100 12900 12400 11900	8060 7960 7870 7770 7750	5130 5000 4710 5000 5040	10100 17500 14000 10200 8930	7820 7840 7890 7630 6840	7510 7350 7220 7350 7910	9130 9080 8960 8760 8710	7410 6870 6780 6780 6800	6000 5690 5330 5270 5270	5130 5130 5130 5130 5130 5140	18500 14800 8480 9030 8560	73400 81200 136000 111000 75300
26 27 28 29 30 31	10400 9590 9210 8930 8760 9010	7750 7820 8100	4980 4960 5000 5310 5860 5730	10800 11000 9460 8980 9440	6430 6240 6120 6140 6080 5960	8270 8320 8340 8320 8630	8660 8630 8580 8560 8560 8600	6780 6780 6760 6820 6840 6740	5180 5200 5220 5240 5200	5140 5090 5140 5140 5130 5130	7240 6690 6470 6340 6240	66300 84200 76700 68100 63000 60000
Mean	12380	8212	5655	7539	7599	7098	9034	7990	6184	5140	6848	40420
Ac-Ft	761100	456100	347700	M18600	467200	422400	555500	491300	368000	316000	407500	2485000
Maximum Dischar	Celende	or year 150	,000 c.f.s	December Drumry 28	r 23, 1955 1,40				Total Runof: in Acre-Feet		ndar Year Year	7526400 6102600

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 Discharge
 of record 370,000 c.f.e. Peoruary 28, 1940
 in Acre-Peet
 Water Year
 6102000

 Division of Water Resources station located at Mile 130.8 above Sacramento.
 Records of flows in excess of 40,000 second-feet
 were computed by extending the rating curve.
 Period of record 1948 to date.
 Period of record 1948 to date.

TABLE 23 FLOW OF SACRAMENTO RIVER AT BUTTE CITY - 1955

					Deily	Mean Flow	in Second-	Feet				
Dete	Jen.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
コロットロ	14200 14800 12300 11000 10300	9360 11000 9240 8400 7980	7950 7330 6850 6470 5990	5490 5390 5370 5210 5070	8970 8400 8610 8470 8140	5490 5670 5630 5650 5900	8590 8590 8710 8830 8850	8120 8050 8280 8300 8370	6560 6630 6690 6740 6670	5130 5130 5110 5090 5050	5050 5090 5070 5070 5170	5530 5430 5370 5010 4990
6 7 8 9 10	9940 9560 9340 9240 11100	7770 7560 7360 7240 7160	5800 5670 5610 5650 6010	4880 4630 4630 4780 4880	7880 7910 8120 8000 7630	6140 6260 6300 6160 6090	8760 8690 8660 8640 8690	8370 8420 8470 8490 8450	6760 6830 6850 6610 6520	5050 5030 5170 5230 5270	5210 5170 5190 5210 5170	13700 31100 13000 10700 13800
11 12 13 14 15	11800 10500 9820 9560 9390	7050 6980 7380 7840 7860	6410 6320 6240 6050 5860	4820 4820 5130 5290 5470	7200 6940 6740 6610 6910	6160 6410 6540 6580 6470	8690 8660 8610 8640 8590	8420 8230 8090 8090 8090	6520 6520 6540 6610 6540	5430 5550 5570 5190 5050	5010 4990 5170 6010 6030	9720 7980 7290 6800 6430
16 17 18 19 20	10500 12200 13700 19600 19900	7880 8000 8230 8230 8230 8050	5760 5630 5550 5470 5310	5610 5880 7520 7840 7520	6850 6890 6940 7180 7310	6430 6450 6720 6650 6910	8640 8640 8640 8590 8640	8020 8020 7900 7600 7400	6610 6650 6300 6180 6160	5030 4970 4970 4990 5010	6070 6140 5820 5780 6160	6200 7380 16500 45600 87200
21 22 23 24 25	17400 13400 12200 11700 11200	7950 7840 7770 7720 7660	5190 5150 4800 4970 5010	8540 14700 14000 10100 8640	7290 7270 7360 7180 6670	7070 6910 6830 6800 7450	8640 8540 8490 8250 8230	7200 7000 6700 6500 6500	6050 5780 5370 5310 5310	5050 5090 5090 5050 5090	12100 16300 8540 8140 8450	84900 66200 122000 130000 89600
26 27 28 29 30 31	10200 9170 8760 8470 8250 8450	7680 7750 8000	4930 4950 4930 5210 5780 5800	9690 10800 9220 8650 8810	6030 5840 5720 5700 5650 5510	7720 7820 7880 7840 8000	8180 8140 8090 8090 8090 8120	6500 6500 6600 6500 6500 6500	5190 5190 5190 5190 5190	5070 5030 5030 5070 5010 5030	7000 6390 6050 5900 5800	64100 79800 79700 69200 61000 57700
Mean	11550	7962	5763	7113	7159	6631	8523	7622	6175	5117	6442	39160
Ac-Ft	710000	442200	354300	423200	440200	394600	524100	468700	367500	314600	383300	2408000
Maximum Discher		yeer 139, d 170,000	000 c.f.s. c.f.s. Feb	December ruary 7, J	24, 1955 942				Total Runoff in Acre-Feet		idar Yeer Year	7230700 5799500

Station is maintained jointly by the Division of Water Resources and the U.S. Geological Survey. Station is at Butte City Bridge at Mile 115.6 above Sacramento. Period of record 1921 to date. Records for 1955 computed by U.S. Geological Survey.

TABLE 24

FLOW OF SACRAMENTO RIVER OPPOSITE MOULTON WEIR (GORDON PUMP) - 1955

Date					Daily	Mean Flow	in Second-	-Feet				
Dara	Jen.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345			8120 7720 7100 6750 6130	5820 5960 5910 5820 5710	8960 8340 8320 8390 8050	5620 5760 5740 5730 5920	8150 8200 8270 8360 8410	8170 8140 8310 8380 8390	6360 6430 6500 6580 6530	5440 5440 5390 5380 5340		
6 7 8 9 10			5930 5820 5790 5850 6100	5560 5540 5510 5530 5530	7750 7700 7870 7800 7560	6030 6150 6150 6080 6000	8380 8350 8300 8270 8300	8380 8360 8390 8380 8280	6580 6660 6750 6590 6550	5350 5300 5360 5390 5400		
11 12 13 14 15			6590 6640 6740 6660 6500	5530 5540 5620 5620 5820	7080 6780 6590 6450 6690	6070 6280 6400 6440 6470	8330 8330 8310 8350 8350 8350	8200 8070 7930 7910 7880	6560 6620 6630 6760 6720	5480 5560 5540 5300 5180		
16 17 18 19 20			6380 6260 6220 6110 5960	5850 6050 7160 7960 7520	6640 6660 6750 7030 7110	6460 6470 6660 6650 6790	8390 8440 8460 8460 8550	7770 7710 7400 7330 7120	6730 6750 6490 6360 6330	5120 5060 5060 5000 5010		
21 22 23 24 25			5900 5790 5560 5630 5630	8290 13900 14600 10600 8910	7180 7160 7160 7030 6670	7000 6860 6810 6780 7130	8540 8460 8430 8230 8190	7020 6600 6470 6390 6360	6260 6040 5740 5640 5620	5040 5040 5040 4990 4960		
26 27 28 29 30 31		=	5560 5590 5590 5770 6240 6370	9470 10800 9340 8660 8660	6060 5880 5810 5760 5760 5760 5680	7400 7560 7570 7570 7620	8170 8150 8140 8140 8140 8140 8150	6390 6330 6320 6350 6390 6390 6370	5540 5530 5520 5480 5470	4980 4960 5010 5040 5060 5090	_	
Meen			6226	7426	7054	6539	8313	7467	6277	5204		
Ac-Ft			382800	441900	433700	389100	511100	459200	373500	320000		
Meximum Diecher									Total Runof in Acre-Fee		dar Yeer Year	

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Division of Water Resources Station located at Mile 103.3 above Sacramatic. Daily flow records was computed for the irrigation season only as part of the Sacramento River Triel Witer Distribution program. The records are based on current mater measurements and on correlation with adjacent reging stations, and should not be considered to have the same degree of accuracy as the records for other reging stations published in this report. Stati m moved downstream to new location on May 27, 1955. Records are computed for the irrigation season only.

TABLE 25 PLOW OF SACRAMENTO RIVER AT COLUSA - 1955

Date					Daily	Mean Flow	in Second-	Feet				
Date	Jen.	Peb.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 745	11400 14500 13200 11600 10600	8810 10800 9940 8860 8290	8020 7790 7150 6920 6350	5660 5400 5320 5280 5110	8770 8400 8120 8370 8100	5320 5310 5410 5380 5510	7700 7860 7890 8000 8070	7600 7580 7740 7890 7980	6330 6400 6500 6560 6580	5250 5240 5200 5200 5190	5240 5130 5120 5100 5160	5830 5590 5620 5320 5200
6 7 8 9 10	10100 9730 9420 9240 10000	7980 7790 7600 7490 7370	6060 5910 5810 5820 5950	4950 4690 4510 4620 4780	7810 7680 7810 7890 7680	5710 5980 6000 5960 5840	8110 8090 8020 7990 8010	7970 7970 8040 8040 8040 8020	6560 6600 6730 6710 6510	5180 5170 5190 5280 5340	5210 5230 5200 5240 5220	6890 22400 20900 12000 13100
11 12 13 14 15	11600 11000 10100 9690 9480	7300 7210 7270 7790 7510	6380 6500 6420 6330 6120	4690 4580 4820 4940 5130	7280 6890 6700 6490 6530	5800 5950 6150 6210 6200	8020 8050 8010 7960 7970	8000 8000 7830 7740 7750	6450 6450 6450 6510 6600	5430 5570 5660 5590 5350	5110 5050 5060 5650 5950	11300 8820 7790 7250 6840
16 17 18 19 20	9670 11600 12000 17400 19000	7920 7960 8090 8260 8140	5970 5850 5750 5680 5520	5200 5360 5900 7680 7030	6710 6610 6710 7010 7110	6160 6110 6250 6400 6410	7930 7990 8000 7980 7980	7710 7670 7570 7340 7190	6600 6620 6610 6350 6240	5260 5200 5160 5160 5180	5980 6110 5860 5780 5950	6500 6600 10300 23400 35000
21 22 23 24 25	20500 15700 13200 12200 11700	8020 7900 7840 7760 7700	5350 5300 5100 4960 5110	7350 11000 14000 11400 9240	7220 7220 7170 7100 6910	6700 6680 6530 6470 6630	8000 7960 7930 7820 7700	7020 6500 6430 6300 6270	6210 6060 5780 5460 5320	5220 5250 5260 5270 5280	8060 16200 10800 7890 8520	38400 36800 39100 42000 40600
26 27 28 29 30 31	11100 9800 9200 8820 8540 8470	7670 7690 7880	5000 4990 4970 5030 5480 5900	8730 10300 9680 8720 8340	6190 5840 5690 5550 5550 5450	7000 7220 7310 7320 7300	7640 7600 7570 7550 7530 7540	6270 6290 6270 6280 6370 6380	5290 5220 5190 5180 5170	5240 5240 5230 5260 5210 5270	7400 6680 6310 6080 6000	37900 37500 38400 37800 36800 36200
Maan	11630	8044	5919	6814	7050	0241	7886	7300	6175	5275	6410	20510
c-Ft	715200	146800	363900	405400	433500	371300	484900	ЦЦ8900	367400	324400	381400	1286000
a ximum lachar	ge of record	r yaar 42, 1 49,000 c	200 c.f.s. .f.a. Fabr	Decambar uary 8, 19	24, 1955 42				otal Runoff n Acre-Feet		dar Year Year	6029100 5756400

Station is meinteined jointly by the Division of Water Resources end the U. S. Geological Survey. Station is at the Coluse Bridge, Mila 89.4 ebove Sacramento. Period of record 1921 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 26

FLOW OF SACRAMENTO RIVER AT MERIDIAN - 1955

Dette					Daily	Meen Flow	in Second	-Feat				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	11100 14400 14200 12800 13700	9880 11300 11200 10200 9530	8580 8360 7730 7450 6890	5850 5550 5430 5400 5200	9210 d910 8600 8770 8580	5830 5870 5950 5860 6010	7790 8100 8120 8240 8310	7800 7780 7890 8080 8080	6170 6280 6390 6510 6550	5240 5240 5220 5190 5200	5080 5120 5140 5140 5180	6170 5740 5690 5430 5280
6 7 8 9 10	11200 10800 10500 10300 10700	9110 8840 8630 8460 8270	6560 6380 6240 6300 6440	4940 4680 4470 4540 4700	8280 8150 8250 8310 8090	6210 6400 *6460 *6310 6110	8320 8240 818 8120 6170	8050 8070 8160 8160 8150	6580 6730 6840 6720	5180 5180 5210 5320 5420	5250 5280 5230 5260 5260	6160 20300 22900 14400 13600
11 12 13 14 15	12300 12200 11400 11000 10700	8140 8050 8040 8480 8600	6850 6970 6900 6800 6600	4600 4480 4670 4810 5000	7630 7180 6920 6800 7000	6090 6160 6390 61440 6380	8190 8190 8140 8110 8110	8130 8100 752 7840 7820	6720 6770 6800 6860 6860	5510 5650 5740 5580 5340	5130 5060 5120 5820 6330	12900 10500 9150 8450 7870
16 17 18 19 20	10800 12300 13000 16800 18800	8590 8630 8740 8900 8800	6420 6260 6160 6090 6890	5100 5290 5620 7540 *7070	7230 7050 7190 7550 7720	6370 6410 6560 6630 6680	5060 8110 8130 8090 8130	7800 7720 7520 7300 7120	7070 7110 7090 6800 6770	5230 5170 5100 5110 5120	63 0 6460 6300 6180 7330	7420 7230 1 100 21800 3 ⁴ 500
21 22 23 24 25	20000 17100 14700 13600 13000	8680 8570 81470 8360 8280	5630 5590 5330 5170 5290	7410 10400 13800 12200 9920	7800 7840 7790 7720 7540	7000 6850 6650 (560 6730	8140 8100 8100 7960 7820	7000 6730 6350 6220 6170	671. 6470 6110 5750 5620	5190 5210 5230 5220 5220	7550 15300 12800 9140 9110	40700 30800 41800 45100 44200
26 27 28 29 30 31	12400 11300 10600 10200 9870 9700	8250 8240 8420	5220 5170 5140 5160 5620 7040	9220 10400 10200 9210 8880	6800 6140 6270 6100 6060 5950	7090 7350 7410 7410 7330	7730 7710 7723 7710 7700 7730	6160 6170 6130 6140 6200 6140	5-00 5420 5350 5330 5240	52-0 5070 5080 5120 5120 5100	8380 7400 6350 6370	41600 40700 41600 41000 40000 39200
Meen	12560	8845	(299	6890	7540	6520	8v41	7319	0440	5250	6683	22360
Ac-Pt	772500	1;91200	3 7300	410000	403600	388000	1911100	450000	381200	32280	397700	1375000
Maximum Discher		ur 30ar (12	, ,) · · · · · · · · ·	. ')a ancar	4, 195				Totel Runof in Acre-Fee		ndar Year r Yeer	6333700

Division of Weigr Resources Station located at Mile 7.95 above Secraments. The records are based on current star measurements made infig 1954 and 1955 only, and on correlation with adjacent going station and should not be considered as having the same degree of accuracy as the records for ot ar geging stations jublished in this report.

TABLE 27

FLOW OF SACRAMENTO RIVER BELOW WILKINS SLOUGH - 1955

Date					Daily	Mean Flow	in Second	-Feet				
Dare	Jan.	Feb.	March	April	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 745	9760 13100 13700 12300 11200	9070 10100 10600 9710 9020	8300 8200 7680 7300 6950	5660 5320 5250 5160 4910	8010 7960 7540 7590 7450	4650 4620 4700 4660 4700	6290 6690 6740 6840 6960	6240 6200 6220 6410 6460	5150 5240 5430 5570 5660	5140 5120 5110 5090 5070	5030 5040 5070 5080 5090	6150 5740 5620 5480 5240
6 7 9 10	10600 10200 9820 9580 9720	8560 8280 8080 7900 7750	6550 6360 6220 6180 6290	4660 4450 4350 4200 4100	7180 7020 7080 7300 7280	4900 5060 5080 4970 4830	7020 7030 7000 6960 7020	6440 6450 6510 6510 6490	5710 5860 6070 6200 6120	5060 5070 5070 5180 5290	5160 5220 5180 5200 5220	5370 14100 20200 15300 12700
11 12 13 14 15	11100 11500 10700 10200 9940	7620 7530 7460 7820 8040	6600 6880 6820 6730 6560	3940 3800 3840 3980 4100	6940 6380 6080 6000 6080	4740 4780 5000 5080 5020	7070 7060 7070 6950 6840	6450 6450 6310 6240 6240	6130 6210 6320 6420 6550	5420 5510 5610 5570 5280	5140 5050 5040 5420 6140	12800 10700 9170 8330 7760
16 17 18 19 20	9860 10900 11900 14500 17500	8100 8120 8210 8400 8370	6390 6230 6090 6000 5860	4210 4410 4600 6130 6220	6260 6100 6110 6340 6480	5030 5100 5170 5350 5350	6710 6720 6660 6630 6640	6220 6220 6110 5910 5780	6630 6740 6800 6580 6500	5140 5080 5010 5000 5000	6260 6320 6250 6120 6160	7330 6990 8460 16200 22700
21 22 23 24 25	18900 16800 14100 12900 12200	8260 8170 8060 7980 7910	5590 5500 5340 5060 5100	6480 8460 12300 11800 9690	6580 6690 6690 6610 6460	5610 5660 5410 5310 5330	6690 6670 6640 6550 6410	5660 5510 5120 4930 4880	6450 6270 5980 5600 5430	5070 5100 5130 5140 5140	6670 12400 13100 9490 8730	24200 24500 25200 26000 26100
26 27 28 29 30 31	11700 10700 9950 9480 9190 8980	7870 7910 8040	5070 4980 4970 4970 5150 5650	8640 9250 9430 8450 7880	5870 5360 5100 4910 4800 4730	5620 5850 5930 5960 6010	6270 6180 6180 6200 6210 6220	4890 4940 4950 4960 5080 5110	5360 5220 5120 5090 5070	5120 5010 5000 5040 5080 5070	8340 8160 6800 6430 6290	25600 25000 25100 25000 24600 24300
Mean	11710	8319	6180	6189	6483	5183	6681	5867	5916	5152	6520	15550
Ac-Ft	720000	462000	380000	368300	398600	308400	410800	360800	352000	316800	388000	955900
laximum Dischar		d 26600 c.	00 December .f.s. Febru	ary 8, 19				t	otel Runof n Acre-Fee	t Water		5421600 5492900

Stetion is maintained jointly by the Division of Water Resources and the U.S. Geological Survey. Station is located at Mile 02.9 above Sacramento, 0.3 of a mile below Wilkins Slough pumping plant of Reclamation District 108, and 1.3 miles below Tisdale Weir. Period of record 1931 to date. Records for 1955 computed by U.S. Geological Survey.

TABLE 28

FLOW OF SACRAMENTO RIVER ABOVE RECLAMATION DISTRICT 108 DRAIN PLANT - 1955

Date					Daily	Mean Flow	in Second-	-Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
19 M-45			8410 8370 *7840 7390 6980	5430 *5230 *5080 *5030 *4800	7940 7840 7270 7380 7230	4520 4480 4620 4600 4420	6140 6640 6680 6850 6880	6170 6140 6140 637 0 6450	5180 5280 5460 5660 5710	5140 5040 5060 5020 5040		
6 7 8 9 10			6440 6260 6070 6030 6100	*4550 *4330 *4130 *3950 *4010	6940 6770 6780 6950 6870	4700 4860 5040 4940 4850	6880 6860 6860 6780 6760	6440 6500 6510 6570 6530	5750 5890 6110 6300 6200	5010 5030 5010 5090 5280		
11 12 13 14 15			6240 6610 6620 6570 6380	4050 *3800 3540 3720 3850	6600 6070 5640 5480 5710	4760 4810 5030 5150 5140	6830 6750 6720 6640 6570	6550 6510 6370 6300 6270	6220 6260 6430 6530 6630	5390 5470 5610 5590 5310		
16 17 18 19 20			6250 6160 6020 5930 5760	4020 4200 4440 5890 6280	6100 6060 6100 6290 6420	5060 5150 5210 5380 5430	6450 6490 6460 6510 6540	6260 6280 6220 6000 5790	6700 6900 7020 6810 6690	5120 5060 5000 4960 4960		
21 22 23 24 25			*5490 *5270 *5250 *5050 *5100	6470 8290 12500 12100 9560	6490 6730 6650 6440 6360	5660 5800 5540 5410 5380	6520 6550 6490 6470 6290	5780 5620 5200 4930 4880	6640 6450 6110 5750 5530	5020 5090 5110 5140 5140		
26 27 28 29 30 31		=	*5000 *4920 *4900 *4950 *5190 5100	8410 9000 9360 8410 7760	*5870 *5340 *5100 *4850 *4720 *4590	5640 5920 5970 5960 5950	6150 6020 6010 6070 6050 6140	4930 4980 5070 4980 5110 5160	5370 5240 5220 5170 5160	5160 5020 4990 5040 5080 5070	_	
Mean			6085	6073	6309	5179	6518	5904	6012	5131		
Ac-Ft			374200	361400	387900	308200	400800	363000	357800	315500		
Maximum Dischar									Total Runof: in Acre-Fee		dar Yeer Year	

Division of Water Resources station located at Mile b6.4 above Sacramento. Station installed on February 3, 1955. Daily flow records were computed for the irrigation season only, as pert of the Sacramento River Trial Water 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 sging stations published in this report.

FLOW OF SACRAMENTO RIVER AT KNIGHTS LANDING - 1955

Date					Deily	Mean Flow	in Second	-Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12745	9490 12500 14600 13600 12400	9850 10300 11500 11000 10200	8830 8950 8470 7900 7490	6450 6060 6010 6020 5610	8820 9020 8830 8690 8630	5310 5130 5340 5220 5400	6730 7110 7280 7430 7440	7030 6950 6950 7100 7260	6440 6510 6770 7190 7290	5770 5730 5770 5770 5770	5670 5610 5650 5680 5670	6770 6350 6140 5980 5780
6 7 8 9 10	11800 11500 10900 10700 10600	9630 9210 8920 8670 8440	7050 6910 6720 6620 6530	5170 4860 4440 4070 4160	8150 7700 7690 7910 8050	5300 5460 5430 5070 4780	7420 7410 7440 7290 7180	7260 7260 7270 7460 7420	7350 7580 8020 8310 8230	5740 5800 5680 5730 5920	5780 5870 5840 5800 5800	5470 11400 22800 18000 13700
11 12 13 14 15	11400 12600 12500 11800 11300	8260 8150 8020 8190 8480	6610 7200 7200 7300 7010	4330 4060 3960 4040 4080	7710 7040 6790 6940 7280	4830 4980 5210 5450 5400	7230 7120 7260 7260 7150	7280 7270 7170 7190 7240	8340 8310 8310 8230 8160	6130 6170 6270 6260 6080	5790 5730 5700 5920 6780	14400 12900 10800 9420 8600
16 17 18 19 20	10700 11000 12600 14000 18700	8570 8610 8580 8770 8940	6890 6840 6750 6530 6420	4030 4090 4360 5240 6410	7420 7480 7620 7880 7870	5510 5720 5830 6010 6050	6980 7040 7120 7120 7150	7190 7210 7160 6970 6910	8110 8250 8250 7960 7660	5820 5750 5610 5670 5610	7040 6990 7010 6750 6730	7990 7530 8320 13600 22100
21 22 23 24 25	20600 19800 16600 15300 14400	8900 8780 8650 8620 8490	6200 5980 5780 5420 5390	6350 8060 12700 13900 11700	7780 8300 7820 7580 7160	6160 6320 5980 5850 5720	7300 7350 7400 7370 7260	6890 6610 6210 6010 5970	7460 7300 6990 6560 6300	5750 5740 5730 5830 5810	7000 11100 15200 11400 9680	25000 25000 25000 25900 26600
26 27 28 29 30 31	13700 12500 11500 10700 10300 9900	8430 8380 8130	5290 5240 5240 5320 5330 5970	10100 10200 11100 9890 8970	6540 5990 5690 5630 5350 5410	5770 6010 6360 6550 6550	7050 6910 6910 6900 6910 7000	6010 6050 6270 6170 6330 6380	6180 6020 5840 5860 5790	5760 5660 5560 5790 5620 5700	9370 8310 7660 7130 6860	24900 23800 23600 24200 24700 24800
Mean	12900	8952	6625	6681	7444	5623	7178	6853	7319	5806	7184	15860
Ac-Ft	793400	497200	407400	397500	457700	334600	441400	421400	435500	357000	427500	975000
Maximum Dischar			lly mean 27 c.f.s. Fab			mber 24, 1	.955		Total Runof in Acre-Fea		ndar Year r Year	5945600 6072700

Station is maintained jointly by the Division of Water Resources and the U.S. Geological Survey. It is located at the Knights Landing Railroad Bridge, Mile 34.0 above Sacramento, below the point of discharge to the river of Colusa Basin drainage vie the Back Borrow Fit of Reclamation Districts 108 and 787. Feriod of record 1921 to date. Records for 1955 computed by U.S. Geological Survey. (a) Station has been rated entirely by elope method since 1952. Instantaneous flows have not been computed during this period

TABLE 30

FLOW OF SACRAMENTO RIVER AT VERONA - 1955

Data					Daily	Maan Flow	in Second	l-Fest				
Dava	Jan.	Fab.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
していて	16300 23800 25700 22500 19800	13900 15000 15800 15100 14100	15100 14000 13200 12200 11600	14300 12900 12400 11700 10800	15900 16100 15700 15400 15600	12800 11400 10100 9890 10000	7040 7520 7740 7900 8000	7760 7740 7680 7780 7870	7460 7280 7520 7970 8200	7020 6950 6720 6520 6520	6840 6920 7130 7250 7250	8990 8970 9200 8720 8230
6 7 8 9 10	17700 16100 15100 14500 14700	13300 12400 12000 11800 11500	11100 10500 10200 10200 11000	9740 8930 8200 7730 8300	15700 17200 18600 21100 23000	11000 11700 10800 10200 9830	7950 8000 8020 7840 7680	7870 7920 7970 8140 8200	8360 8470 8810 9290 9440	6530 6540 6600 6940 6830	7240 7140 7190 7220 7260	9130 20000 28100 25800 21300
11 12 13 14 15	17000 18100 17100 16200 15700	11300 11300 11200 11100 11500	12900 13900 13900 13600 13600 13300	8990 9100 8810 8270 7700	22500 21000 20400 20000 19200	9110 8520 8180 8250 8140	7700 7680 7710 7810 7790	8110 8000 8000 8000 8030	9440 9460 9460 9730 10100	6890 7300 7720 7830 7520	7220 7070 7060 7300 8380	20200 17800 15100 13600 12600
16 17 18 19 20	16600 19700 20700 26500 30300	12000 12200 12700 13600 13500	12900 12200 11600 11200 10900	6940 6750 7260 9170 10600	17200 15300 14900 14900 16100	8340 8130 8100 7780 7580	7660 7570 7630 7660 7760	8000 8000 7950 7760 7630	10200 10600 11200 10400 9870	7260 7160 7180 7040 6900	9170 9330 9350 9490 9620	11700 11300 12800 22900 47800
21 22 23 24 25	29500 27300 23500 20900 19400	13200 12900 12800 12400 12400	10400 10100 9730 9200 9010	11300 14800 22100 23100 21100	17200 18400 18200 17700 17200	7380 7360 7020 6560 6260	7800 7900 7800 7800 7700	7620 7490 7070 6880 6800	9650 9350 9040 8430 8140	6950 6960 6960 6920 6720	9510 13600 18800 15700 13100	59200 62400 70000 66200 63600
26 27 28 29 30 31	18200 17100 15700 15000 14200 13800	12300 12900 16100	9190 9420 9740 10900 13800 15400	19400 19200 19000 17700 16500	15600 13500 12700 12600 12900 12700	6200 6370 6590 6940 6980	7650 7490 7380 7470 7520 7630	6750 6800 7010 7070 7100 7330	7730 7460 7200 7020 6880	6780 6820 6920 6960 7060 6980	12300 11200 10200 9260 8930	65400 65800 65800 64700 63000 61200
Mean	19310	12870	11690	12430	16920	8584	7703	7624	8805	6968	9268	33600
c-Ft	1188000	714600	718800	739400	1040000	510800	473700	468800	524000	428400	551500	2066000
aximum lechar			400 c.f.e. o.f.e. Mer		Total Runof in Acre-Fee		ndar Year r Year	9424000 9111200				

Station is maintained jointly by the Division of Water Rescurces and the U.S. Geological Survey. It is located at Mile 19.6 above Sacrements at the mouth of "Matemas Gross Ganal", main drain between Reclamation Districts 1000 and 1001, and below the mouth of the Pasther River, Flows are measured below the mouth of Gross Ganal. Drainage area is cli00 equaremiles. Period of record 1926 to date. Records for 1955 computed by U.S. Geological Survey.

TABLE 31 FLOW OF SACRAMENTO RIVER AT SACRAMENTO - 1955

Date					Daily	Maan Flow	in Sacon	d-Faet				
Date	Jan.	Fab.	March	April	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	21300 32600 30500 27600 23700	16500 17800 19100 18600 17100	18700 16600 16000 15100 14100	15000 14000 13200 12500 11700	21800 22100 20800 19500 20200	21000 16200 13800 13300 14500	8700 8720 9130 9280 9140	9360 9380 8940 8420 8550	9380 9340 9530 9940 10300	7940 7970 8040 7870 7900	7900 7840 7970 7890 7970	10100 9860 10200 9980 9820
6 7 8 9	21100 18300 17700 17000 17000	16100 14900 13900 13800 13500	13600 12700 12100 12000 12700	10600 9770 9040 8330 8700	20100 21500 23100 26200 28800	18400 19200 15500 15400 15600	8650 8690 8680 8570 8420	9030 9410 9270 9680 9550	10400 10300 10600 10300 10200	7860 7770 7890 8100 8130	7810 7840 7950 7900 7970	10000 17900 28400 28000 23700
11 12 13 14 15	19400 20700 19800 18900 18600	13200 13000 12900 12500 12800	15200 16700 17400 17100 16600	8250 9420 9230 8590 8180	28000 24400 23400 23500 23500	15100 13200 12200 11600 11200	8460 8810 9200 9200 9200	9200 9200 9230 9350 9280	10300 9970 10000 10200 10600	8010 8170 8690 8690 8460	7800 8050 8430 8090 8900	21700 20200 17100 15300 14000
16 17 18 19 20	19600 23800 24300 31200 33900	13100 13700 15700 17200 16700	16200 15300 14300 13600 13100	7760 7640 8090 9070 10600	21700 18900 18400 18300 18700	10900 10200 11100 10700 9400	9100 9000 9100 9200 9300	9200 9180 9260 9030 8970	10700 11000 11800 11200 10700	8350 8200 8270 7970 7620	9740 9720 9960 9970 9970	1 3200 12600 1 3800 21600 47000
21 22 23 24 25	32700 30400 26600 24200 22700	15800 15400 14900 14700 14000	12900 11200 10700 10100 9910	11300 14200 23600 26000 24300	19500 20100 20800 21000 22500	9700 10000 8470 8280 8320	9300 8000 9100 9400 9400	8860 8780 8650 8770 8650	10600 10100 9620 8960 8630	7540 7490 7370 7330 7420	9860 12100 18900 17600 15000	66500 71600 90200 86200 84500
26 27 28 29 30 31	21500 20500 19100 17800 17000 16300	13400 14100 18700	9770 9900 10200 10500 13000 16000	22500 22700 23000 23500 22600	22100 19900 19000 20300 19900 21600	8300 8180 8780 8810 8290	9460 9260 8980 9000 9000 9250	8510 8550 8630 8830 8910 9150	8410 8110 8110 8070 7970	7470 7420 7580 7760 8060 7990	13800 12700 11600 10600 10100	85600 85300 82200 78100 74400 69400
Mean	22770	15110	13650	13780	21600	12190	8990	9025	9845	7914	10060	39630
Ac-Ft	1400000	839200	839600	819900	1328000	725200	552800	554900	585800	486600	598900	2437000
Maximum Dischar	ge of race	ord 104,000	,300 c.f.s) c.f.s. No	ovember 21	23, 1955 , 1 950				Total Runof in Acra-Fac		ndar Year r Year	11167900 10618400

Station is matrixined jointly by the Division of Matar Resources and U.S. Geological Survey. It is located at Rile 0.1, above M Straat Bridge. This represents the flow of the Sacramento River past Sacramento (balow the City of Sacramento intake) to the Delta. Additional water flows to the Delta via East Borrow Pit of Yolo By-Pass (sas Tables 67 and 101). Delty mean flows are computed from newly derived curves which take into account tidal fluctuations during low stages. Period of racord 1904, 1905, 1921, 1924 to date. Records for 1955 computed by U.S. Geological Survey. Station washed out by high water on December 23,1955.

TABLE 32

FLOW OF CLEAR CREEK NEAR IGO - 1955

Date					Daily	Mean Flow	in Sacond-	Faat				
Date	Jan.	Feb.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
コックしょう	283 260 241 226 220	368 335 303 279 264	199 196 193 180 168	177 168 163 157 151	700 700 650 600 600	165 160 151 146 140	72 70 74 85 80	27 26 25 24	19 18 18 18 17	22 21 22 22 22	29 31 31 31 32	120 125 105 93 232
6 7 8 9 10	206 196 190 202 199	248 234 223 220 212	163 163 163 177 183	146 140 138 138 138	550 520 500 480 430	133 125 120 112 112	72 67 64 60 58	24 24 24 24 23	17 17 17 18 18	22 22 22 22 22 25	34 32 31 30 28	552 271 223 347 260
11 12 13 14 15	186 177 174 171 180	206 202 199 199 199	180 180 180 174 168	135 133 130 130 130	400 380 360 340 320	117 115 115 117 125	57 54 50 46 43	22 21 21 20 21	18 17 18 20 25	30 29 27 26 26	28 29 38 145 143	216 223 220 202 190
16 17 18 19 20	180 180 327 716 450	206 220 212 202 196	163 160 154 151 146	127 130 133 256 845	300 290 280 270 260	112 103 98 91 87	40 42 41 39 38	21 22 20 21 20	26 25 24 24 23	26 24 24 26 27	52 54 91 187 797	206 287 2950 8100 6860
21 22 23 24 25	343 335 360 364 360	186 177 171 165 165	143 140 138 138 138	1700 1400 1200 900 950	250 2140 226 223 212	85 82 80 82 80	375 3342 30 30	20 20 19 19 19	22 22 21 21 20	28 28 27 27 26	436 186 190 165 133	10200 14500 7310 3740 3660
26 27 28 29 30 31	347 331 319 311 347 368	256 287 216	140 146 168 220 212 186	1000 900 800 700 650	206 196 183 180 171 168	80 78 76 78 74	30 30 31 30 29 28	20 20 20 20 20 20 19	20 20 21 22	28 28 28 28 28 28 28	115 117 125 125 112	3670 2420 1740 1350 1110 942
Mean	282	227	168	462	361	108	48.3	21.7	20,2	25.5	113	2336
Ac-Ft	17350	12600	10330	27500	22190	6420	2970	1330	1200	1570	6700	143700
Maximum Dischar		r year 24, ord 24,500	500 c.f.s. c.f.s. Dec	December amber 21,	21, 1955 1955				Total Runoff in Acra-Faat		ndar Year Year	253860 148250

U. S. Geological Survey and U. S. Army Corps of Engineers cooperative station located nine miles upstream from the mouth. Clear Greek is a west-side tributary to the Sacramento River at Mile 237.1R. Drainage area is 231 equare miles. Period of record 1940 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 33 FLOW OF COW CREEK NEAR MILLVILLE - 1955

Deta					Deily	Mean Flow	in Second-	Feat				
2000	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	1330 768 536 446 414	1650 746 576 495 459	268 271 271 249 228	330 323 287 268 252	690 948 700 630 576	170 161 154 143 129	37 376 42 42	14 15 10 9.2 11	7. 11 11 10 11	28 30 26 28 32	54 100 MA	34- 371 290 277 2570
6 7 8 9 10	362 319 298 450 674	418 382 358 338 312	215 212 212 234 301	234 226 220 223 237	576 620 625 585 544	116 111 106 102 99	35 37 30 32 35	10 11 10 9.6 .2	8,2 9.6 10 6.7 6.7	24 26 33 36	77 71 67 64 61	0210 1420 1160 3370 1060
11 12 13 14 15	442 362 338 319 362	298 291 284 271 261	291 287 278 258 237	220 207 209 226 218	531 513 486 442 394	108 102 102 93 102	20 21 21 23 20	6.7 6.3 8.2 9.2 10	8.2 13 13 17 49	550 50 440	65 71 93 124 126	701 568 474 410 357
16 17 18 19 20	1020 740 2170 1830 1260	287 406 338 287 271	228 223 218 209 204	212 1470 845 640 790	366 342 319 334 346	102 91 86 76 61	16 21 20 14 10	9.6 6.9 6.1 9 8.2	40 146 147 32 28	40 38 37 43 53	152 168 264 629 7230	800 4000 6000 9000 5400
21 22 23 24 25	872 730 752 650 590	261 252 240 231 228	196 194 192 189 184	1900 1720 984 768 960	354 350 319 298 27,	496 52 50	13 14 16 20 12	10 10 13 11 10	26 25 24 29 30	4992 492 48	3330 590 1000 1090 528	3500 8380 12400 4330 2790
26 27 28 30 31	549 486 438 406 508 1010	234 350 312	186 196 337 605 495 362	1030 695 610 1130 918	255 231 220 209 204 186	52 43 40 44	10 13 10 13 14 15	10 12 14 7.3 6.5 7.3	28 25 23 23 23	67 65 67 64 62 61	353 296 256 225 204	8000 5000 2570 1840 1520 1360
Mean	691	387	259	612	435	89.7	23.3	9.7	21.6	цц.6	561	3225
Ac-Ft	42510	21490	15930	36400	26720	5340	1430	5.95	1280	2740	34590	198300
Maximum Discher	ge of record	year 19,2 145,200 c	00 c.f.s. .f.s. Decen	Decembar 2 mber 27, 1	3, 1955 951				Totel Runoff in Acre-Feat		dar Yaar Year	337325 262165

U. S. Geological Survey and U. S. Bureau of Reclamation cooperative station located approximately five wiles southwest of Millville. Cow Creek is an east-side tributary to the Sacramento Rivar at Mile 228.8L. Drainage area is 427 square miles. Period of record 1949 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 34

FLOW OF	COTTONWOOD	CREEK	NEAR	COTTONWOOD	-	1955
---------	------------	-------	------	------------	---	------

Data					Dail	y Mean Flow	in Second-	-Feet				
Dava	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 745	1080 898 720 612 558	796 711 636 596 565	374 369 358 336	369 347 342 342 330	890 924 932 856 847	347 325 310 295 290	129 129 133 133 137	54445 5607	54 60 54 57 71	85 81 744 648	52 52 103 99 99	234 234 226 209 719
6 7 8 9 10	505 453 433 4505	542 520 498 492 486	320 310 315 336 398	315 305 295 295 295	ව 56 906 940 906 838	290 280 262 257 214	133 110 106 99 92	67 64 67 57	67 78 67 54 43	92 92 78 67 60	96 96 103 92 71	5380 1660 1050 1860 1180
11 12 13 14 15	1446 404 386 369 386	479 466 453 116 140	416 398 392 380 369	295 295 295 295 290 285	804 762 720 677 652	262 280 257 248 248	69 88 88 95	507 47 507	50 50 71 73 85	67 67 74 85 85	60 54 74 70	872 788 702 *20 550
16 17 18 19 20	528 528 1880 3390 2330	453 512 520 486 453	336 320 310 295 285	280 392 305 300 492	620 580 542 528 528	234 217 192 184 180	85 85 35 74 71	64 64 60 54 54	81 85 96 99 31	68 78 81 85 55	92 114 148 226 1080	558 786 5260 20300 14000
21 22 23 24 25	1230 1040 983 915 856	434 416 404 386 374	280 270 266 257 257	1130 1550 1030 949 940	5 35 528 492 466 434	160 160 160 156 152	64 63 64 60 64	47 54 50 57	64 71 74 78 81	68 81 81 81 85	2110 542 520 620 364	9030 36900 16900 8470 5040
26 27 28 29 30 31	· 796 745 694 60 677 736	374 446 410	262 266 320 374 398 380	1170 949 872 864 940	416 404 380 364 352 352	148 140 140 137 133	67 67 74 67 67 67 67 60	71 67 67 61 64 64	64 57 67 78	85 28 78 78 88	285 257 260 266 252	4880 2970 2230 1730 1400 1190
Mean	846	493	333	563	6.46	223	89.3	53.6	r0.3	10.7	280	
c-Ft	52020	27360	0460	33530	39730	13270	5490	3690	4120	4000	16680	201100
aximum iechar,	ge Calend of rec	ar year 49 ord 52,300	,000 c.f.s c.f.s. Mar	December rch 1, 194	22, 1955 1				otal Runoff n Asre-Fest		ndar Year 7 Year	515/20 298400

U. S. Geological Survey and U. S. Army Corps of Engineers cooperative station located two miles upstream from the mouth. Cottonwood Greek is a west-side tributary to Sucramento River at Mile 222.2R. Drainage area is 945 square miles. Period of record 1940 t. date. Records for 1955 computed by U. S. Geological Survey.

TABLE 35 FLOW OF BATTLE CREEK NEAR COTTONWOOD - 1955

Date					Daily	Meen Flow	in Second-	Feet				
0400	Jan.	Feb.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Oec.
12 745	550 406 346 307 318	516 349 321 307 301	288 291 294 281 298	346 321 298 298 281	338 379 395 379 368	349 335 338 346 360	202 202 208 210 208	172 167 167 164 164	159 157 143 150 150	162 155 169 167 164	184 184 184 184 189	247 262 233 218 1440
6 7 8 9 10	298 288 284 338 434	291 298 288 284 284	262 278 262 288 342	278 281 284 284 284 204	395 1442 462 474 466	383 3614 360 357 357	199 194 197 194 192	162 157 167 150 157	157 152 157 155 155	169 172 167 157 184	186 197 184 184 186	2410 495 403 483 328
11 12 13 14 15	335 304 301 301 411	278 276 275 288 278	399 379 342 328 301	304 284 281 284 284 284	470 479 483 442 406	357 328 328 328 328 314	192 186 184 182 176	159 159 159 155 162	150 155 152 159 174	199 189 174 167 167	179 192 199 221 202	284 276 262 256 247
16 17 18 19 20	568 399 685 458 418	281 307 321 301 294	294 241 261 262 284	281 307 328 324 318	391 376 395 422 474	288 275 262 253 250	179 169 184 179 176	152 155 157 155 152	172 182 182 184 184	157 169 169 167 182	224 241 233 266 1280	298 1450 1970 4180 2390
21 22 23 24 25	353 335 321 332 304	294 281 281 294 294	269 269 272 275 278	357 403 379 368 387	495 516 491 462 442	238 233 233 227 224	174 172 176 169 182	150 162 155 152 152	169 172 164 164 162	172 182 176 186 179	1160 335 314 266 250	1980 4360 4480 2170 1370
26 27 28 29 30 31	311 314 298 291 301 379	284 288 281	278 291 372 430 368 335	368 346 342 353 353	410 399 3 1 387 395 383	218 227 213 210 208	174 169 172 176 179 164	155 152 150 164 157 157	159 169 167 167 169	189 189 184 182 179 184	233 224 233 221 216	3470 1990 1290 990 879 819
Mean	364	301	306	321	426	292	185	158	163	174	285	1353
Ac-Ft	22390	16720	18810	19060	26200	17380	11350	9730	9670	10730	16960	83170
											262170 211300	

In Acre-Peet Water Yeer 2113 Eattle Creek is an east-side tributary to Sacramento River at Mile 221 5L. Dreinage area is 362 square miles. Period of record 1940 to date. Records for 1955 computed by U. S. Geological Survey.

			TABL	E 36				
FT.OW	OF	PAVNES	CREEK	NEAR	RED	BLUFF	_	1955

Dete					Deily 1	Mean Flow 1	n Second-1	Peet				
Dere	Jan.	Feb.	March	April	Меу	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	280 139 68 61	212 130 96 81 68	32 32 32 32 32 30	19 22 21 20 19	55 55 45 40	3.3 3.3 3.1 2.9 2.7	0.1 0.2 0.4 0.5 0.4		000000	2.7 2.70, 2.2	3.5 3.5 3.5 3.5 5 5 5 5 5 5 5 5 5 5 5 5	12 12 12 12 385
6 7 8 9 10	53 47 42 46 106	6072 5275 45	29 20 29 32 36	18 12 9.6 9.6 10	35 33 31 28 26	2.7 2.9 3.1 2.9 2.9	0.4 0.3 0.2 0.2		0 0 0 0 0	2.7 2.9 2.9 3.1 3.3	7.5 3.3 3.3 3.3 3.3	1110 209 121 166 81
11 12 13 14 15	89 76 96 77 170	42 40 39 37 36	36 34 33 33 31	9.6 9.0 5.0 8.0	21 15 12 12 12	3.5 3.7 3.7 4.0	0.1 0.2 0.1 0	0 0 0 0	0.3 0.4 0.5 1.1 1.4	3.3 3.3 3.1 3.1 3.1 3.1	3.1 3.1 4.0 5.2 3.7	57 46 41 36 33
16 17 18 19 20	317 166 593 289 204	36 37 36 34 33	29 26 21 19 18	8.0 12 22 23 25	11 10 9.6 9.0 8.5	3.7 3.7 1.2 1.4	0 0 0 0	0.1 0.1 0.1 0.1 0	1.8 6.5 5.2 5.2	3.1 3.1 3.1 3.1 3.1 3.1	9.0 16 13 6.6 140	57 254 1040 2890 906
21 22 23 24 25	139 115 106 96 37	33 32 32 31 31	17 16 16 16 16	106 178 110 79 68	7.5 7.0 7.5 7.5	1.4 1.3 1.3 1.1 1.0	0 () () () () ()	0.1 0.1 0.1 0.1 .1	5.29 4.99 4.66 4.6	3.1 3.1 3.1 3.1 3.1 3.1	309 41 75 54 28	475 839 006 443 272
26 27 28 29 30 31	79 70 67 61 68 94	30 32 33	15 16 20 18 22 20	24 77 57 60 67	7.0 6.2 3.7 3.5 3.3 3.3	1.2 1.3 1.3 1.2 0.2		0.1 0.1 0.1 0.1 0 0.1	3.7 2.7 2.7 2.7 2.7	3.3 3.3 3.3 3.3 3.3 3.3 3.3	22 18 17 14 13	1450 645 345 229 170 146
Mean	129	52.6	25.3	39.4	18.7	2.4	6.1	0,1	2	3.1	27.7	432
Ac-Ft	7910	2920	1560	2340	1150	144	7	3	132	169	1650	26580
Meximum Discher	ge of recor	yeer 5130 d 5130 c.f	c.f.s. De .s. Decemb	cember 19, er 19, 195	1955				tel Runoff Acre-Feet	Celen Water	der Year Yeer	44585 31053

U. S. Geologicel Survey and U. S. Bureau of Reclemet on cooperative station located approximately one mile above mouth. Paynes Creek is en east-side tributery to Sacramento River at Mile 201.5L. Dreinage area is 92.5 square miles. Feriod of record 1949 to date. Records for 1955 computed by U. S. Geologicel Survey.

			TABL	E 3	7		
PLOW	OP	REDBANK	CREEK	AT	POOTHILLS	-	195

Date					Daily	Mean Flow	in Second-	Feet				
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 3-455	16 14 12 11 10	•21 •19 •16 •14 •12	50050 50050	2.5 2.2 1.9 1.9 1.6	22 19 16 15 12	1.9 1.3 1.0 0.4 0					0 0 0 0	0.9 c.9 c.8 c.8 0.7 14
6 7 8 9	9.0 7.5 7.5 8.0 9.7	<pre>>11 >10</pre>	3.7 4.0 5.0 7.5	1.6 1.3 1.0 1.0 0.9	11 11 11 10 9.7	0 0 0 0 0					0 0 0 0	163 28 25 48 18
11 12 13 14 15	•9.4 #8.0 #7.4 #7.4 •9.2	7.0 7.0 6.5 6.0 6.0	6.5 5.0 5.0 4.0 3.7	0.9 1.0 1.0 1.0	9.7 10 8.5 9.0 9.0	0 0 0 0	N O	N O	0 K	?. О	0 0 0 0 0	11 8.0 7.0 5.0 3.7
16 17 18 19 20	 ●11 ●10 ●72 ◆105 ●87 	6.0 7.0 5.5 4.5	-3.4 3.4 3.7 3.4	1.0 1.6 2.2 2.2 3.4	9.0 9.0 8.5 7.5 7.5	0 0 0 0	F L W	F L O W	F L C W	L W	0 0 0 93	4.0 38 81.9 1400 210
21 22 23 24 25	#64 #53 @46 #41 #36	444444	3.4 3.7 3.1 3.1 2.8	199 123 37 25 56	0 MM0 M	0 0 0 0					20 1.6 25 20 7.0	1090 906 512 210 168
26 27 28 29 30 31	*31 *28 *25 *22 *23 *24	5.0 6.5 5.5	2.558 2.58 3.18 2.5	71 36 27 26 27	5.0 5.5 4.1 2.5						4.0 2.5 1.6 1.0 1.0	145 91 67 51 43 40
Mean	26.0	8.1	3.9	21.9	5.0	0.2	0	0	0	0	6.1	199
lc-Pt	1635	451	24	1306	550	9	0	0	С	0	360	12250
(aximum Dischar		r year 471	0 c.f.s.	December 2	1,1955				Totel Runoff In Acre-Feet	Calen Water	dar Yeer Yeer	16803 13053

In Acre-rest Water Year 13053 Division of Water Resources and U. S. Bureau of Reclamation cooperative station located approximately 15 miles above the mouth. Redbank Creak is a west-side tributary to Sacramento River at Mile 191.2E. Period of record 1943 to date. Record for 1955 e Estimated

TABLE 38

FLOW OF ANTELOPE CREEK NEAR RED BLUFF - 1955

Date					Daily	Mean Flow	in Second	-Peet				
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	253 182 130 104 93	220 141 110 97 91	67 68 68 66 66 62	71 75 68 65 62	112 128 124 114 108	74 67 65 62 62	36 36 37 39 38	30 30 30 30 30	28 28 26 28 28 28	32 31 32 32 29	32 32 33 33 33	452 452 429 229
6 7 8 9 10	83 75 70 80 97	84 79 75 72 68	61 60 61 71 123	61 60 59 55 61	108 117 124 132 132	61 57 55 53 52	36 35 35 35 35	30 31 31 30 30	21 28 29 29 29	20 29 29 30 32	34 33 32 32 32	802 180 107 167 107
11 12 13 14 15	90 87 83 105	66 65 63 62 62	100 93 88 33 76	50.00 50 50 50 50 50 50 50 50 50 50 50 50 5	138 141 143 132 117	53 51 50 53 53	34 33 32 32 32	30 30 30 30 30	29 20 29 34 41	37 32 32 31 31	32 32 37 41 36	7 9 67 60 55 52
16 17 18 19 20	157 149 377 245 185	66 83 80 74 70	72 68 66 63 60	57 76 107 112 155	105 100 99 108 121	48 46 44 42 41	32 32 32 32 32 32	30 30 29 30	35 41 36 33 32	30 30 31 34 33	42 47 42 145 104	56 151 1130 4060 1280
21 22 23 24 25	145 132 124 114 107	66 63 60 60 59	59 57 57 55 55	436 317 191 153 149	126 121 112 105 97	408 338 338 33	32 32 32 31 31	30 29 30 30 30	32 32 32 32 32	28 31 31 30 30	234 70 70 70 52	923 2360 2300 1050 610
26 27 28 29 30 31	100 91 86 83 107 134	60 70 67	55 56 63 83 80 71	1/1 128 114 114 119	91 87 83 81 79 76	38 38 39 39 37	32 32 32 32 31 30	30 30 20 20 20	32 31 31 32 32	31 32 31 31 31	46 4+ 42 41	2250 1100 627 417 314
Mean	128	79.3	70.1	111	112	40.0	33.3	24,4	31.3	31.1	44.8	677
Ao-Pt	784o	4430	4310	6610	6860	2920	2050	1040	1 60	1.10	.460	41630
Maximum Dischar	celenda ge of reco	r year 85 rd 10,400	10 c.f.m. D c.f.s. Feb	ruery 6, 1	1955				Total Runof in Acre-Fee		der Yeer Yeer	65220 57920

U. S. Goological Survey and U. S. Army Corps of Engineers cooperative station located six miles upstream from the mouth. Antelopa Creek is an east-side tributary to Secre onto River at Mile 1 4. L. Drainage area is 124 square miles. Period of record 19.0 to date. Records for 1955 co.uted by U. S. Geological Survey. Flow of Antelope Creek enters the Sacra ento River at a point 2.3 miles above site , reviously reported.

TABLE 39 FLOW OF ANTELOPE CREEK NEAR MOUTH - 1955

Data					Daily	Mean Flow	in Second-I	Peat				
Daca	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	232 156 99 72 57	124 87 64 50 42	20 20 18 15 14	41 47 42 38 34	66 60 60 51 46	11 8.0 7.5 7.5 5.3	15 16 14 14 14	2.3 1.5 1.3 1.5 1.8	5.05 200 0.0	0.5 0.8 4.7 5.3	15 16 17 23 24	5.3 10 8.0 6.4 *191
6 7 8 9 10	144 32 26 47 133	37 32 28 26 25	13 13 12 25	34 21 18 22 22	39 38 34 32 33	5.8 6.9 5.8 5.8 4.7	13 11 13 10 8.8	3.1 3.c 2.5 3.6 6.9	1.0 0.5 0.5 3.1 7.5	7.5 6.9 6.9 7.5 13	25 22 20 17 18	*780 *159 *103 *150 *84
11 12 13 14 15	90 67 56 51 56	22 19 18 18	25 22 20 22 20	22 22 22 22 22 20	34 36 34 36	755.4.5	8.8 8.0 6.4 8.8	017 M M M	6.9 3.6 2.5 3.6 10	22 20 19 19 18	192 32 46 34	*66 *55 *42 *12 *10
16 17 18 19 20	143 114 *466 329 353	20 22 24 22 20	17 20 19 20 20	17 26 50 63 85	33 24 31 32 33	4.2 3.6 5.3 4.7 5.3	10 13 10 8.8 8.0	4.2 3.1 2.0 1.5 1.8	12 13 13 8.0 5.3	16 17 18 13 14	41 56 41 36 96	*46 *145 *1100 *3°10 *1200
21 22 23 24 25	229 170 139 118 101	19 18 17 17 16	22 18 16 22 19	341 292 165 112 94	32 31 32 26 23	5-3 4-7 4-2 6-9	5.8 11 9.6 3.6 2.0	2.0 1.8 1.3 1.5 3.1	2.3 1.0 0 0.2 0.8	14 3.0 8.3 12 17	#220 66 51 77 34	*890 *2250 *2200 *1030 *575
26 27 28 29 30 31	84 66 50 44 50	16 15 17	14 13 28 38 41 39	137 92 75 71 75	19 17 14 10 11 11	7.5 10 16 15 13	3.6 3.1 2.5 2.5 4.7 4.2	8.0 5.8 1.3 0.2 1.5 4.7	2.0 1.0 0 0	18 20 22 18 19 15	20 13 11 8.0 6.4	*2180 *1090 *580 *360 *260 *230
Mean	120	30.5	20.6	72.8	32.7	6.9	8.8	3.2	3.7	12.9	37.6	638
Ac-Ft	7410	1692	1205	4215	2011	410	540	195	219	795	2230	39260
Maximum Dischar									tal Runoff Acre-Faat	Celan Water	dar Yəar Yəar	6 0242 29951

Division of Water Resources and U. S. Eureau of Reclamation cooperative station located approximately 0.3 miles above the mouth. Antelope Creek is an east-side tributery to Sacramento River at Mile 182.6L. Feriod of record 1948 to date. Records for 1955 computed by Division of Water Resources. Flow of Antelope Creek entars the Sacramento River at a point 2.3 siles above site previously reported. * Estimated

TABLE 40

FLOW OF NORTH FORK MILL CREEK NEAR MOUTH - 1955

Date					Deily	Maan Flow	in Second-	Fast				
Date .	Jan.	Fab.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dac.
12 7.45	3.5 2.9 2.8 2.6 2.5	1.6 1.5 1.4 1.4 1.4	1.6 1.5 2.4 2.9 2.8	8.1 6.2 6.0 5.5	2.9 3.1 2.8 2.6 2.5	205558	3.1 2.0 1.9 1.4 1.2	0.2 0.1 0.1 .4 0.3	0.4 0.1 0.2 0.2 0.3	0.6 0.7 1.0 0.7 0.7	1.7 2.9 3.5 4.0 6.5	11 10 6.0 9.4 8.8
6 7 8 9 10	2.4 2.4 2.4 2.9 4.0 4	1.4 1.3 1.3 1.3 1.4	2.9 2.8 2.8 3.3 5.3	6.5 7.5 4.6 3.3	1.3 0.8 1.1 0.7 1.2	0.7 1.3 2.0 2.0 1.4	1.0 0.6 0.4 1.2 1.3	0.2 0.2 0.1 0.3 0.4	0.7 1.1 1.6 3.3 2.2	0.7 1.0 0.6 0.4	6.7 6.5 4.6 5.8	9.1 6.2 9.7 12 10
11 12 13 14 15	4.8 4.6 2.4 1.2 1.2	1.4 1.4 1.4 1.4 1.4	6.8 4.6 4.6 *	2.9 4.8 1.4 1.5	1.2 1.7 2.4 1.6 1.9	1.6 1.5 0.9 0.8 1.2	1.6 1.6 1.6 2.9 2.2	0.4 0.5 0.2 0.2 0.2	1.2 1.3 0.4 0.5 2.4	3.3 1.4 2.8 4.8 2.8	4.4 4.6 9.4 8.1 7.5	9.4 9.4 9.1 9.7 11
16 17 18 19 20	1.2 1.3 4.2 1.9 1.6	1.5 1.5 1.5 1.6 1.5	3.7 6.7 7.2 7.2 7.5	1.9 3.1 5.0 4.8 5.0	3.1 3.8 3.5 3.3 2.8	0.9 0.7 0.6 0.6 1.2	0.9 0.6 0.6 0.5 1.3	0.1 0.1 0.1 0.1 0.1	3.8 2.8 5.5 4.8 3.3	2.8 4.8 3.3 2.9 2.1	8.1 7.8 7.5 9.7 14	10 9.7 15 140 139
21 22 23 24 25	1.4 1.7 1.7 1.6 1.7	1.5 1.6 1.6 1.6 1.5	5.30 5.30 5.2	6.5 4.2 4.2 4.2	2.2 1.5 0.7 1.6 2.2	2.2 2.8 2.2 1.7 1.5	1.2 2.0 0.6 0.3 0.2	0.2 J.1 0.2 0.4 U.2	3.7 2.9 3.8 1.6 1.1	2.2 1.9 1.5 2.5 2.8	9.1 7.8 7.8 7.2 9.1	13 *228 *180 *75 *39
26 27 28 29 30 31	1.6 1.6 1.5 1.5 1.5 1.5	1.5 1.7 1.6	5.3 3 7.5 5 6.0	4.6 3.8 2.8 2.8	1.7 1.6 1.2 1.2 1.2 1.5	1.6 1.9 2.9 1.5 3.8	0.2 0.1 0.1 0.2 0.1 0.3	0.2 0.2 0.4 0.2 0.2 0.2	2.9 2.9 2.5 1.6 1.2	3.5 2.6 1.2 1.1 1.2 1.2	11 11 11 11 11	*98 *62 *30 *22 *17 *14
Mean	2,2	1.5	4.7	4.5	2.0	1.6	1.1	0.2	2.0	1.9	7.4	39.8
Ac-Ft	130	82	290	267	121	97	66	13	121	119	1110	2445
Maximum Dischar									otal Runoff In Acre-Feet	Calan Water	dar Year Year	4199 2217

Division of Water Resources and U. S. Bureau of Reclamation cooperative station located approximately 0.5 mile above the mouth. This creek is an east-side tributery to Sacramento River at Mile 179.3L. Period of record1948 to date. Records for 1955 computed by Division of Water Resources. Station washed out by high water on December 22, 1956.

TABLE 41 FLOW OF MILL CREEK NEAR LOS MOLINCS - 1955

Data					Dall	y Mean Flow	In Second	-Faat				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	443 213 182 174	764 204 185 174 172	164 164 164 161 150	200 258 234 219 207	264 312 331 325 344	2,2 236 302 315 354	151 149 159 154 144	106 106 104 	85555 88888 88	91 91 89 91 91	94 94 94 94 108	126 126 121 113 366
6 7 8 9 10	164 1-6 151 164 1 -	104 161 101 150 156	154 154 155 202 280	207 <13 216 228 240	433 515 406 477	361 365 343 341 341 341	144 139 134 134 134	104 104 102 102 100		89 8- 87 89 102	106 98 94 94	1090 317 205 255 174
11 12 13 14 15	164 156 156 151 151	156 156 154 154 154	243 243 234 216 199	228 216 222 213 202	477 458 400 344	328 315 296 292 261	131 130 125 126 124	100 98 100 100 96	64 94 84 94 126	137 102 96 94 93	94 94 108 117 108	147 144 137 128 126
16 17 18 19 20	1~3 3 7 2.6 234	164 199 190 177 172	1.8 1 2 170 179 177	202 255 292 294 411	308 705 705 705 705 705	240 225 219 213 207	124 124 121 121 121 121	96 96 91 91	100 111 137 104 98	91 93 93 94	121 128 121 164 499	130 273 1330 4690 2810
21 22 23 24 25	207 202 207 196 195	164 161 159 156 156	172 166 169 174 185	762 477 368 365 3d6	515 500 433 .15 368	199 190 182 177 172	119 117 117 117 115	93 91 91 89	96 94 94 93	94 94 93 91 91	484 179 164 140 119	3020 6770 5380 2340 1390
26 27 28 29 30 31	179 169 169 160 15 196	161 172 164	1,50 204 312 300 351 292	358 296 276 270 270	337 341 337 351 354 344	169 166 161 161 156	115 115 113 113 113 111	91 51 39 39 39 39 37	91 91 91 91 91	100 102 54 54 94 94	113 115 115 113 100	2990 1840 1140 784 605 537
Mean	199	170	c 27	239	398	254	128	9 . 7	92.9	94.0	139	1278
c-Ft	142-0	V460	12700	17200	24460	15140	7850	5040	5530	5820	8280	78550
aximum aximum	Calenda	r year y10	BU c.f.s. 1 c.f.s. Dec	December 23	2, 1955	19140	7850	T	5530 otal Runoff Acre-Feet	Calan	dar Year	2031 1463

U. S. Geological Survey and Division of Water Resources cooperative station located five miles upstream from the mouth. Mill Creek is an asst-side trioutary to Sacramento River at Mile 179.0L. Drainage area is 134 square miles. Period of record 1909 to 1913; 1,20 to data. Records for 1955 computed by U. S. Geological Survey.

ΤA	BL	Ε	42

FLOW OF MILL CREEK NEAR MOUTH - 1955

Date	-				Dally	Mean Flow	in Sacond-1	Feet				
Date	Jan.	Fab.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dac.
12345	433 341 2146 203 4 7	284 203 176 161 15	156 141 156 156 144	156 139 118 103 91	176 221 242 231 229	153 141 156 167 224	13 7.4 7.1 5.6 6		1. 0 0 0 0	5.6 7.3 7.1 8.5 13	345555	110 125 120 109 321
6 7 8 9 10	154 154 176 196	1 44 130 111 147 144	136 130 144 174 306	10 86 19 97 112	319 .12 433 401 355	231 231 221 217 217	4.3 2.1 1.7 1.2 1.0		0 0 0 0	14 12 12 13 48	59 64 30 84 7	*1300 417 253 315 224
11 12 13 14 15	170 156 153 117 156	141 130 130 130 141	210 179 164 144 164	101 - 8 59 88 6	337 341 341 257 193	203 184 156 147 114		N O	0 0 13	32 16 15 14 11	69 54 64 71 66	182 175 173 156 147
16 17 18 19 20	. 21 - 06 471 324 171	150 199 193 17 164	95 66 66	00 107 170 170 250	158 156 190 253 315	93 77 64 58 51	0 0 0 0	F L W	6.2 7.8 22 13 10	9.2 9.6 16 23 26	82 105 101 120 380	153 289 2650 •5000 •3000
21 22 23 24 25	217 -210 13 194	153 150 147 144 144	- 14 50 R SO	12 471 306 280 315	3 16 364 - 03 - 75 235	46 39 31 26 24	0 0 0 0		7.59 9.9 5.9	29 32 30 24 24	591 137 158 139 114	 ◆3100 ◆7600 ◆6000 ◆2500 ◆1300
26 27 28 29 30 31	171 164 1 1 193	153 170 146	1 6 2 9 240 1	311 224 193 181, 144	203 196 190 713 213 26	214 22 10 17 14	0.8 .0 .0 0 0		5-4 4-1 1-0	31 32 20 20 20 20	103 107 107 105 103	● 3250 ●2050 ●1040 ●730 ●560 ●490
Moan	212	16	1 34	100		112	1.0		4.5	19.0	115	1414
Ac-Pt	130	1. 1	~ 14	11	±t 53v	67.	101	U.	17	1170	6035	00~05
Meximum Discher	ge								Total Runoff In Acre-Feet	Calon Water	dar Year Year	155749 58528

Division of Water Reamined to S. Hureau of Heclamet on cooperative station located approximately Wide fear south. Mill Creek is an east-side tributary to Sucra o to River at Kile 1.5. L. Period of recording to date. Records for 1955 to ity Division of Water Resources. Station washed out by Figh water December 17, 1955. Estimated

TABLE 43

FLOW OF ELDER CREEK AT GERBER - 1955

Date					Deily	Meen Flow	In Second-	Feet				
Dere	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	47 45 40 36 35	47 43 36 35	23 22 21 21 21 19	23 22 21 20 19	98 94 91 87 84	12 12 9.5 8.5 6.2	0.2 0 0 0.1				00000	15 15 10 10
6 7 8 9 10	32 30 29 33 38	33 32 30 29 29	18 18 19 24 45	17 16 16 16 16	101 125 128 115 103	5.4 5.2 4.0 3.7	0.1 0 0 0 0				0 0 0 0	300 84 47 151 58
11 12 13 14 15	37 32 29 33	27 26 26 25 25	43 37 35 29	16 16 16 15	944 843 735 56	4.0 1.5 7.5 5.1	000000000000000000000000000000000000000	N O	N O	N O	0 0 6 10 8	32 26 23 18 15
16 17 18 19 20	43 37 158 214 155	26 35 31 29	26 24 23 23 21	16 16 16 16 21	507 147 140 38	4.5.0.0 2.2.2.2		F L O W	F L O W	F L O W	10 15 25 50 200	17 55 1220 4060 1300
21 22 23 24 25	82 63 54 50 48	26 25 24 23 23	20 20 19 19 19	513 482 162 113 116	35 31 28 27 25	2.1 2.1 1.8 1.3 0.8	0 0 0 0				50 20 70 40 30	1850 5260 2590 328 534
26 27 28 29 30 31	451 440 340 445	23 30 25	19 19 23 26 26 24	225 136 110 103 113	22 20 18 16 14 12	1.0 0.8 0.7 0.1 0			_		20 20 22 20 15	523 411 314 248 218 206
Mean	54.1	29.9	24.4	80.7	60.1	4.1	0	0	0	0	21 . 0	662
Ac-Ft	3330	1660	1500	4800	3700	244	1	0	0		1250	40720
Meximum Dischar	Gelender ge of recor	year 1040 d 10400 c.	0 c.f.s. D f.s. Decem	ecember 22 ber 22, 19	, 1955 55				Total Runoff in Acre-Feet		der Yeer Yeer	57205 27615

U. S. Geological Survey and U. S. Bureau of Reclamation cooperative station located 1.0 mile west of Gerber and 3.5 miles above the mouth. Elder Creek is a west-side tributary to the Sacramento River at Mile 178.5R. Drainage area is 142 square miles. Period of record 149, to date. Records for 1955 computed by U. S. Geological Survey. (Prior records are available at a site approximately 20 miles upstream.)

TABLE 44

FLOW OF THOMES CREEK AT PASKENTA - 1955

Date					Daily	Mean Flow	in Second	-Feet				
Dara	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	654 420 310 243 210	180 184 167 132 134	122 115 110 110 105	219 200 175 161 150	282 385 442 430 480	134 124 119 117 127	29 28 28 39 36	5.0 4.2 4.2 4.2	1.0 1.2 .8 .6 .8	1.8 1.8 2.0 2.0 1.8	4.4 4.4 4.7 5.0	101 99 76 63 73
6 7 8 9 10	178 161 147 145 134	127 127 127 137 142	115 117 145 184 250	147 150 158 160 160	661 728 682 605 546	124 115 107 99 90	28 23 20 20 20	3.8 3.8 3.8 3.9 2.6	.7 55 57 3	1.8 2.0 2.0 2.0 2.4	5.48 5.48 5.44	830 380 233 475 266
11 12 13 14 15	119 112 112 107 110	145 142 142 142 147 150	230 210 190 170 160	150 140 140 132 132	510 480 415 352 306	84 90 78 73 67	20 18 16 14 14	2.6 2.4 2.4 2.2 2.0	.6 .5 .8 1.0	2.8 2.8 3.0 3.0 3.0	5.0 5.0 8.4 11 10	298 357 274 230 200
16 17 18 19 20	120 130 150 160 170	187 310 254 210 187	150 140 134 137 137	140 150 160 200 450	278 270 298 344 375	65 59 51 48 45	12 12 12 11 11	2.0 1.8 1.6 2.0 2.0	1.3 1.3 1.8 1.8 2.6	2.8 2.8 2.8 3.3 4.4	14 15 25 154 755	310 482 1610 6050 3810
21 22 23 24 25	170 170 160 160 160	167 155 145 137 134	132 124 122 125 130	350 270 243 310 352	362 314 270 240 213	41 40 41 41 39	9.6 9.0 8.4 7.8 7.8	1.8 1.6 1.4 1.4 1.6	2.2 2.0 2.0 1.8 1.6		364 137 97 76 60	6150 16300 10700 4220 2410
26 27 28 29 30 31	150 150 140 150 160 170	134 129 112	140 180 266 278 243 2143 216	322 250 250 250 266	194 175 164 164 161 150	37 36 35 34 32	7.388 6.38 6.38 4	1.4 1.6 1.3 1.3 1.2	1.6 1.8 1.8 1.8 1.8	4.4 4.2 4.2 4.4 4.4 4.4 4.4	63 110 139 122 97	1970 1490 1040 833 707 590
Mean	182	159	161	211	364	73.1	15.9	2.48	1.26	3.16	77.2	2020
Ac-Ft	11210	8810	9890	12570	22370	4350	976	152	75	194	4600	124200
Meximum Dischar			500 c.f.s. c.f.s. Dece						Total Runoff in Acre-Feet		der Year Year	199397 95488

U. S. Geological Survey and Division of Water Resources cooperative station located 0.5 mile upstream from Paskenta. Thomas Creek is a weat-side tributary to Sacramento River at Mile 173.2R. Dreinage erea is 188 square miles. Feriod of record 1920 to date. Records for 1955 computed by U. S. Geological Survey.

	TABLE	45	
 Pa Provento	0.0.0000		

FLOW OF	DEER	CREEK	NEAR	VINA	-	1955	
---------	------	-------	------	------	---	------	--

Date	Daily Mean Flow in Second-Feet											
Date	Jan.	Pab.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	419 333 243 206 104	256 209 192 1 0 175	155 160 177 15	310 274 250 227 212	371 434 434 -35	167 163 156 154	102 100 100 106	·77755	73 73 76 76 76	t work	555577 7	124 138 126 118 199
6 7 8 9 10	175 162 -5 ⁸ 167 100	145 140 155 155 153	155 158 167 253 403	200 209 215 221 243	+62 -00 -00 -00	145 141 136 134 132	1 4 162 160 160 160	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7 78 75 75 75	4 4 2 2 4 4 2 2 2 4 4 2 2 2 4 4	2 00000	705 307 213 251 202
11 12 13 14 15	162 153 150 146 150	148 146 144 144 146	371 34 318 251 246	224 212 205 209 194	418 -06 394 352 320	132 130 143 138 138	100 100 98 55 95	01. 1. 3.4 52	73 78 78 92 93	118 93 87 85 85	65 35 100 102 53	170 165 156 145 - 38
16 17 18 19 20	189 176 356 274 224	153 163 1cć 170 167	224 212 203 200 192	189 244 241 268 571	294 278 272 272 272 272	130 124 120 116 114		- C - 0 - 0 - 0 - 0 - 0 - 0	85 110 97 9	54555	104 104 102 116 259	1.43 250 1500 6530 4175
21 22 23 24 25	194 192 200 200 194	158 153 148 144 144	180 178 178 186 197	1230 756 560 542 568	275 265 250 241 227	112 110 106 106 108	<1 91 91 91 79	0 80 78 78 78 78	855 855 855 855	855 855 85	375 180 163 134 122	3970 720 6430 4040 2200
26 27 28 29 30 31	189 130 175 172 186 206	160 175 153	206 224 337 479 415 333	502 126 110 336 352	216 205 192 184 182 177	108 106 106 106 106	1999 3999 3999 899 899 899	76 50 90 78 78	- 2 82 84 84 84	9157555 8355 88	116 116 116 114 112	4670 3000 1740 1210 946 822
lean	203	165	242	358	328	126	95.9	02.0	03.0	<i>\$6.5</i>	119	1525
-Pt	12510	9176	14900	1330	20146	7600	59.1	50.00	10 7440	5320	7100	112300

 Discharge
 of record 23,800 c.f.s. December 10, 1937
 Inder rear
 Lickiendar rear
 Lickiendar rear

 U. S. Geological Survey end Division of Water Resources cooperative station located nine miles northeest of Vins and 0.8 mile upstream from a diversion dam. Deer Greek is an eest-side tributary to Sacramento River at Mile 160,5L. Drainage area is 200 square miles. Feriod of record 1911 to 1915; 1920 te 1937; 1935 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 46

FLOW OF	DEER	CREEK	AT	HIGHWAY	99E	-	1955	5
---------	------	-------	----	---------	-----	---	------	---

Date		Daily Mean Flow in Second-Feet													
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.			
12 3-45	449 376 260 211 108	252 198 1 164 158	114 120 122 132 122	183 164 134 214 96	200	* 14 *140 *32 *30 *25	3.00240	1.2 C.7 0.1 0.4	1.4 1.2 1.7 2.0 1.8	2.0	18 18 13 125	#99 #110 #101 #C5 #160			
6 7 8 9 10	174 152 11.7 105 202	152 144 142 142 140	117 117 120 171 1438	83 72 61 64 74	376 412 406 376 348	*14 *10 *6.8 *4.0 *2.0	3.0 2.5 2.7 4.1	1.4 0.5 1.0 C.3	1. 10 45	1.5 1.7 1.5 2.3 5.1		<pre>#570 #302 #171 #.25 #162</pre>			
11 12 13 14 15	158 144 142 140 140	132 132 132 130 130	344 294 237 198 164	72 66 66 56	317 290 252 195 155	\$3.0 \$4.0 \$2.0 \$5.0 \$6.0	2.7 2.7 2.5 2.3 2.0	0.4	1.2 1.0 0.7 1.4 0.8	36 20 15 13 13	*3 52 60 70 *74	*136 *132 *125 *120 *110			
16 17 18 19 20	198 165 144 312 245	130 152 161 14" 11, 1	137 127 107 100 91	56 87 142 161 405	130 117 104 •95 •97	#6.9 6.7 6.4 6.↓ 6.1	2.3 2.7 1.2 1.7 2.3	0.4 0.7 0.5 0.7 1.4	1.0 0.3 1.7 1.2 0.7	20 19 18 27 32	453 433 682 403 4207	\$120 \$200 \$1200 \$5230 \$3240			
21 22 23 24 25	195 1 0 105 192 1 0	132 120 98 100 98	33 53 79 75 72	1040 705 498 46 465	*053 *053 *053 *082 *077	8-3-4-48 5-0-2-4-48	1.8 1.8 1.2 1.4 1.1	1.4 0.9 0.7 1.2 1.5	0.'4 0.7 0.5 0. 1.1	27 20 10 16 12	<pre>#300 #1</pre>	<pre>#3150 •7780 •€750 #3230 •1760</pre>			
26 27 28 29 30 31	177 164 161 199 164 166	104 127 114	75 83 1.4 330 317 218	454 343 335 326 317	*66 *60 *51 *47 *.6	5.8.4.1	1.1 1.2 1.1 1.7 2.0 2.	1.7 2.0 2. 1.7 1.5 1.4	1.1 1.0 1.4 1.5 1.	15 30 20 10 10	003 003 003 001 000	*3740 *2470 *1390 *770 *750 *753			
Mean	F	1	15 -	e 39	198	1.3	c.3	1.0	1+4	-4.7		1406			
c-Ft	Let .J	1.7	97 0	14210	1.1; .	ć12	14.	62	85	901	4/00	5-70U			

In Acre-Peet Water Year 91-24 Division of Water Resources and U.S. Horeau of Reclamation copperative station located at the Highway 97 Bridge. Deer Greek is an east-fide tributary t Sacraments River at Kile Lub.SL. Feriod of record by 8 to date. Records for 1955 computed by Division of Water Resources. Station washed out by high water December 22, 1955.

TABLE 47

FLOW OF BIG CHICO CREEK NEAR CHICO - 1955

Dete			·		Deily 1	Mean Flow :	in Second-1	Faet				
Dere	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
よる うけつ	260 228 151 114 95	196 166 139 116 104	70 70 74 87 91	74 74 70 66 63	196 196 190 184 172	43 44 44 43 42	29 29 30 29	25 25 24 24	21 20 20 21	26 25 25 26 26	28 26 26 27 28	44 54 45 40 72
6 7 8 9 10	80 71 67 74 80	93 84 78 74 74	89 95 109 134 260	60 58 56 54 56	166 157 151 137 121	40 38 38 38 38 38	31 31 30 29	233 233 223 223 223 223 223 223 223 223	21 21 21 21 21 21	26 25 25 26 29	29 28 28 28 28	529 212 121 226 154
11 12 13 14 15	67 63 60 58 61	73 71 71 71 71 70	208 178 160 148 129	52 51 50 50 49	111 100 89 78 74	39 39 40 40 40	29 29 29 28 27	23 23 27 25 24	21 21 22 22 31	33 28 28 28 28	29 29 37 42 36	100 77 64 56 49
16 17 18 19 20	73 73 166 148 119	73 91 93 85 78	114 102 91 84 78	47 67 91 899 206	71 68 64 61 59	38 36 36 34 34	266 266 255 25	25 25 25 25 24	25 24 25 24 22	28 27 28 28 28	35 35 34 42 78	48 74 839 4310 2830
21 22 23 24 25	95 87 91 95 100	71 67 64 61 59	71 67 64 61 60	908 792 475 384 380	58 57 54 53 52	33 31 31 31 31 31	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	24 23 22 22 22	23 22 22 22 22 22 22	29 29 28 28 29	135 56 48 41	2300 5040 3700 1990 1180
26 27 28 29 30 31	107 107 107 104 114 142	70 84 71	60 60 70 85 98 82	349 276 250 234 218	51 49 47 45 44 44	31 31 31 31 31 30	26 27 27 26 26 25	22 21 20 20 20 20	22 22 22 22 22 22 22	30 32 30 30 30 31	38 39 39 39 38	2360 1850 1140 738 546 477
Meen	105	87.4	102	188	96.7	36.5	27.5	23.2	2 22.2	28.0	40.2	1009
Ac-Ft	6460	4850	6250	11200	5950	2170	1690	1420	1320	1720	2390	62010
Maximum Dischar		r year 7150 rd 8260 c.f	c.f.s. D .s. Decem	ecemper 22 ber 10, 19	1955 37				Total Runoff in Acre-Feet		dar Yaar Year	107430 53280

U. S. Geological Survey and Division of Water Resourcas cooperative station located six miles northeast of Chico. Big Chico Creek is an east-side tributary to Secramento River at Mile 141.5L. Drainaga area is 60.3 square miles. Period of racord 1930 to date. Racords for 1955 computed by U. S. Geological Survey.

TABLE 48

FLOW OF BIG CHICO CREEK NEAR MOUTH - 1955

Date					Daily N	iean Flow i	n Second-F	reet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 N N H N	177 202 134 102 80	155 144 121 100 89	55 52 56 66	52 49 45 42 39	148 150 145 144 139	10 13 10 8.4 8.4	2.7 2.7 2.3 2.7 1.9				000000	3.8 11 7.0 3.8 7.7
6 7 8 9 10	66 57 51 60 74	78 68 60 56 53	65 68 79 92 191	37 35 32 24 23	129 123 109 96 83	7.7 7.7 6.4 13 7.0	0 1.9 0 0				000000000000000000000000000000000000000	447 200 *98 *180 *123
11 12 13 14 15	55 50 45 50	52 51 49 47 46	181 153 131 112 97	19 20 20 14 6.4	72 61 50 45 42	8.4 9.0 9.0 10 10	0 0 0 0	N O	N O	N O	0000000	*82 *62 *50 *44 *39
16 17 18 19 20	63 63 137 132 114	49 60 67 65 57	86 80 72 62 57	7.0 14 41 41 93	37 33 27 22 20	9.6 6.4 5.1 4.4	0 0 0 0	F L V	F L O W	F L O W	0.8 3.4 2.3 3.4 11	* 39 *60 *670 *3450 *2250
21 22 23 24 25	90 83 82 85 85	53 49 46 43 42	52 46 41 41 38	536 655 365 280 264	15 15 13 13	3.8 3.4 14 3.8 1.1	0 0 0 0				41 21 19 19 8.4	*1830 *4050 *2950 *1600 *950
26 27 28 29 30 31	86 86 86 83 87 103	46 62 57	38 38 44 51 70 58	268 206 179 169 164	13 12 9.6 9.6 7.7 7.7	0 1.5 1.1 9.6	0 0 0 0 0				6.4 5.8 4.4 3.8	*1900 *1550 *900 *620 *455 *387
Mean	87.5	66.6	75.3	125	58.2	6.9	0.5	0	0	0	5.2	807
Ac-Ft	5381	3099	4629	7417	3577	412	28	0	0	0	310	49620
Meximum Dischar									Total Runoff in Acre-Feet	Celen Weter	der Yeer Yaar	75073 32706

Division 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 tributery to Secramento kiver at Mile 141.5L. Period of record 1948 to date. Records for 1955 computed by Division of Water Resources. Formerly published as Chico Creek. * Estimated

TABLE 49 FLOW OF STORY CREEK BELOW BLACK BUTTE DAM SITE - 1955

Date					Daily	Mean Flow	in Second-	Feet				
Date	Jan.	Peb.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ころ うしょう	347 255 203 175 155	168 157 142 132 128	85 81 81 63 71	140 197 216 231 256	241 261 265 256 251	333 334 385 401 382	349 330 304 291 256	307 325 323 335 346	249 292 294 264 245	228 195 58 28 22	5.1 18 2.5 2.5 2.5	26 34 36 30 30
6 7 8 9 10	138 125 119 115 119	125 119 115 114 117	70 67 74 95 152	254 236 206 185 164	282 269 304 285 • 265	384 356 353 349 294	260 270 306 344 363	353 348 314 297 299	261 250 223 230 259	23 23 22 18 18	2.5 2.5 2.5 16 22	260 238 118 166 142
11 12 13 14 15	109 101 96 93 91	114 112 111 111 111	144 125 119 112 103	156 142 117 103 95	250 324 332 321 294	324 337 263 221 237	370 364 356 339 331	292 283 284 279 273	250 252 260 250 235	21 20 17 11 7.7	18 6.9 5.8 5.1 2.5	106 114 102 86 78
16 17 18 19 20	103 98 191 210 223	112 128 134 123 114	91 83 77 73 69	107 114 92 84 82	269 222 193 230 338	284 306 368 398 398	326 317 292 316 297	282 276 269 293 287	208 175 158 169 215	8.7 16 43 44 31	2.552.55	72 118 658 6180 2730
21 22 23 24 25	164 142 134 138 138	111 107 103 101 95	66 62 59 60	212 357 218 196 203	371 351 339 346 360	392 369 342 333 338	310 335 326 341 339	282 297 283 264 243	202 187 212 218 218 215	12 11 11 12 14	76 38 24 26 20	2290 15600 12000 6050 3520
26 27 28 29 30 31	142 138 134 134 142 166	95 104 95	63 67 80 102 117 107	273 210 188 215 247	361 341 313 307 290 307	343 324 361 373 368	326 298 296 282 297 302	264 267 282 296 256 248	224 227 237 240 242	15 7.9 16 2.5 2.5 2.5	18 18 26 30 28	3230 2880 2080 1700 1530 1420
Mean	150	118	86.5	183	295	342	317	292	231	31.0	14.6	2052
c-Ft	9199	6541	5316	10900	18120	20330	19500	17940	13770	1906	869	126200

 Instant
 Calendar year 19,300 c.f.s. December 22,1955
 Total Runoff in Acre-Feet
 Calendar Year
 250591 Water Year
 260791 166726

 Division of Watar Resources and U. S. Bureau of Reclametion and U. S. Geological Survey cooperative station located below the proposed Bleck Butte Dam Site. The flows at this station are the sum of the flows as measured in Stonv Creek below Orland South Diversion and in the Orland South Diversion Canel. Period of record 1953 to dete. Records for January 1 through June 30, 1955
 0, 1955

 e Estimated
 Estimated
 Strate
 Strate
 Strate

TABLE 50

FLOW OF STONY CREEK NEAR HAMILTON CITY - 1955

					Deily	Mean Flow	in Second-	Feet				
Dete	Jan.	Feb.	March	April	May	june	July	Aug.	Sept.	Oct.	No∀.	Dec.
コピクルサン	450 332 240 • 178 148	137 141 130 116 106	59 56 38 28	00000	164 168 160 141 123							с 0 0
6 7 8 9 10	133 119 106 108 114	103 100 97 92 92	23 17 9.2 11 24	00000	90 61 36 22 9.6							າ ວ ວ ວ
11 12 13 14 15	106 97 90 85 81	92 90 88 83 81	36 24 25 19 4.3	0 0 0 0	3.8 1.2 0.0 0.2 0	N O	N O	N O	N Q	N Ö	N O	.) 0 0
16 17 18 19 20	81 83 123 182 261	81 83 92 92 85	2.0 1.2 0.7 0.5 0.4	000000000000000000000000000000000000000	000000000000000000000000000000000000000	р Ц Ш Ж	FLOW	F L V	FLOW	Г О М	FL - W	0 0 1130 5800
21 22 23 24 25	182 141 126 119 119	79 68 66 68 66	0.2 0.1 0 0	0 178 178 141 155	0 0 0 0							1740 13800 15900 9250 5050
26 27 28 29 30 31	119 116 114 111 111 126	65 66 —	0 0 0 0 0	250 235 178 148 148	0 0 0 0 0				_		_	4280 4090 2070 2220 1740 1540
Mesn	145	90.2	13.8	53.7	31.6	0	0	0	0	1	-	4330
Ac-Ft	8930	5010	848	3200	1940	0	0	0	0	0	0	1,3800
Maximum Diechar		pr year 22 ord 37,500	,100 c.f.s c.f.s. Ma	. December rch 1, 194	22, 1955 1				Total Runoff in Acre-Feet	Watez	ndør Yesr r Yesr	163728 42904

U. S. Geological Survey and U. S. Army Corps of E gineers cooperative station located about five miles above the mouth and above the Olemn-Golusa Irrigation District canal crossing. The flow to the Sacramento River is cut off during irrigation season by an earth fill installed by Gie.n-Colusa Irrigation District to transport water from t.eir main canal across Stony Creek. Stony Greek is west-side tributary to Sacramento River at Mile 13b.OR. Water diverted from Stony Creek by C. I. D. in acro-feet amounted to: March 2, April 3200 and May 1940. Drainage area is 701 square miles. Feriod of record 1941 to date. Records for 1955 computed by U. S. Genlogical Survey.

.TABLE 51

FLOW OVER MOULTON WEIR FROM SACRAMENTO RIVER TO BUTTE BASIN - 1955

Data	1				Daily	Mean Flow	in Sacond-	Feet				
Date	Jan.	Fab.	March	April	May	June	July	Aug.	Sapt.	Oct.	Nov.	Dac.
ことうして												00000
6 7 8 9 10												0 0 0 0
11 12 13 14 15	N O	N O	N O	N O	N O	N O	N O	N O	N O	N O	N O	0 0 0 0 0
16 17 18 19 20	F L O W	FL O W	FL O¥	FLO¥	FL O W	FL O W	F L O W	FLO¥	FL O W	FLOW	FLOW	0 0 0 3060
21 22 23 24 25												9550 2200 13500 21200 11900
26 27 28 29 30 31	•	_		_					_			3180 4520 6250 3950 2050 1250
Mean	0	0	0	0	0	0	0	0	0	0	0	2665
Ac-Ft	0	0	0	0	0	0	0	0	0	0	0	163900
jeximum Dischar	Calenda		200 c.f.s.					1	Fotal Runoff In Acra-Feet		dar Yaar	163900 0

Station is located on Sacramento River at Mile 104.0L. Elevation of crest is 76.75 U. S. E. D. datum; length of crest is 500 feet. Period of racord 1940 to date. Racords for 1955 computed by Division of Weter Rasources.

TABLE 52

FLOW OVER COLUSA WEIR FROM SACRAMENTO RIVER TO BUTTE BASIN - 1955

					Daily	Maan Flow	in Second-	Feat				
Data	Jan.	Fab.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dac.
ለቶሌ ለዞ												0 0 0 0
6 7 8 9 10												0 0 0 0
11 12 13 14 15	N O	N O	N O	N O	N	N O	N O	N O	N O	N O	N O	00000
16 17 18 19 20	F L V	F L O W	FL O W	F L O W	0 0 1800 22000							
21 22 23 24 25												40800 28000 43500 57000 48700
26 27 28 29 30 31		=				_						33500 32500 38000 34000 28900 25200
Mean	0	0	0	0	0	0	0	0	0	0	0	14000
le-Ft	0	0	0	0	0	0	0	0	0	0	0	860600
ieximum dischar		r year 5d,	300 c.f.s.	Decembar 2	24, 1955				Total Runoff in Acra-Fast	Caler Water	dar Yaar Year	860600 0

Station is located on Sacramento River at Mile 92. LL. Elevation of creat is 01.80 U. S. E. D. datum; length of creat is 1650 feat. Pariod of record 1950 to data. Record for 1955 computed by Division of Water Resources.

Date					Dail	y Msan Flow	in Second	-Feat				
Date	ປາກ.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
コマライ	736 518 362 323 299	383 333 289 261 266	252 252 247 242 242	360 350 340 330 320	475 505 531 557 584	315 305 300 290 290	180 168 168 168 168	133 136 136 140 129	1↔0 129 121 133 136	124 131 147 135 1~3	106 106 103 103 106	191 220 167 159 189
6 7 8 9 10	275 256 247 266 285	233 242 228 237 224	219 237 252 303 437	310 310 300 300 300	648 678 652 648 605	281 276 268 263 254	164 168 176 153 153	123 123 117 117 120	1+3 123 136 126 129	103 118 124 147 124	112 106 106 109 92	850 425 295 ~30 330
11 12 13 14 15	266 242 224 228 237	237 224 242 237 233	388 372 357 343 323	290 280 280 270 270	591 577 564 531 493	258 245 245 240 232	160 153 157 160 143	120 120 117 120 120	126 140 129 136 135	159 115 100 100 100	103 109 127 143 127	272 215 232 215 203
16 17 18 19 20	266 256 404 398 328	252 309 304 270 261	299 289 285 280 266	265 350 ~30 ~10 600	469 451 457 463	232 218 214 209 204	160 146 143 146 160	133 140 133 136 136	135 135 135 135 135 135	109 97 100 94 112	131 147 127 179 330	203 305 1050 6150 5310
21 22 23 24 25	289 256 252 256 252 252	247 242 233 206 206	256 256 256 261 266	1280 999 685 626 640	469 451 428 418 390	209 214 204 204 196	143 146 146 143 143	129 133 123 126 133	135 140 140 140 140	112 92 90 106 92	390 228 228 191 175	→390 12000 9780 3860 2460
26 27 28 29 30 31	252 256 261 247 275 309	252 275 252	275 289 373 449 377 360	605 524 481 475 481	380 370 360 345 340 335	196 180 180 188 180	143 143 143 140 140 136	140 133 133 140 133 126	140 140 140 140 136	106 121 109 106 103 103	159 155 159 159 159	4990 3190 2020 1~90 1210 1090
Mean	301	256	300	449	491	236	154	129	135	114	152	20.1
-Pt	18490	14240	18450	26700	30200	14060	9++0	7930	80+0	6990	9070	126700
ximum scher		nr year 18 ord 18,700	,700 c.f.s. c.f.s. De	Decembar cam ar 22,	22, 1955 1955				Total Runoff in Acre-Faat		ndar Year r Year	290310 186260

Jasenerge of Peter Let, UD C.T.S. Decement 24, 1995 U. S. Geolecical Survey and Division of Water Resources cooperative station located ... of mile downstream from Little Butte Creek end ... Smiles east of Chico. Butte Creek is a cributary to Butte Slough 0.6 miles bove its junction with the Secramento River. Flows into the Secramento River are regulated by gates at the mouth of Butte Slough... (See notes on Tables SL and 65). Drainare area of Butte Creek near Chico is 1.8 square miles and period of racord 1930 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 54

FLOW OF BUTTE SLOUGH TO SACRAMENTO RIVER - 1955

Date					Daily	Mean Flow	in Sacond-	Faat				
Darca	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
10745	0 213 417 1417	553 170 531 593 604	319 328 393 369 408	174 149 118 112 71	656 684 644 500 545	456 482 488 355 345	57 63 45 24	19 22 38 41 17	94 140 171 190 208	144 153 154 107 72	C 0 0 0	48 8 0 0 0
6 7 9 10	384 379 364 359 225	535 500 504 469 431	427 431 427 548 610	0 40 32 11 30	526 538 499 464 518	359 359 322 271 233	31 23 12 8.1 0	0 0 0 3.6	233 300 324 350 380	68 67 69 72 77	000000	0 0 678 323
11 12 13 14 15	242 544 638 616 610	408 408 374 287 254	593 561 565 535 527	5.7 0 0 0	367 237 210 293 439	139 99 129 115 112	0 0 0 0	18 16 30 36 39	395 406 434 431 451	80 80 90 95 100	0 0 724 364	821 1110 1100 1050 958
16 17 18 19 20	570 389 478 0 0	249 254 254 196 225	491 455 446 441 523	0 0 69 93	506 423 411 532 600	169 242 247 243 243 241	0 0 0 0 0	67 58 47 63 71	583 584 565 596 639	100 100 87 80 79	303 270 354 ~08 ~50	832 610 0 0
21 22 23 24 25	0 339 735 775 752	249 259 249 270 282	215 222 214 160 91	215 0 504 730	584 566 525 520 557	210 138 54 51 29	C 0 0 0	91 114 119 104 102	0 519 433 406 355	81 80 84 85 89	0 0 22 86	000000000000000000000000000000000000000
26 27 28 29 30 31	770 849 798 752 735 667	282 265 303	95 94 95 103 118 130	752 544 735 804 809	637 585 575 518 517 483	6.6 13 17 33 38	0 0 0 9.3	103 108 69 68 68	296 230 199 140 140	59 0 0 0	398 369 339 339 303	
Mean	45.	350	353	200	505	200	10.0	52.2	360	75.9	1~1	257
Ac-Ft	27800	19750	21690	11910	31060	11900	614	3210	21410	461	10190	15810
Maximum Dischar									Total Runoff In Acre-Feat		ndar Ysar r Year	180011 223044

In Acre-Fest Water Year 223044 This is discharge from Butte Slough to Sacremento River at Mile 4.1 and is measured at and regulated by '.e grivity culterts at the most of ' e si 5'. These flows, t get ar with the set worf is a downrow diversion of a for the some roots, made p almost e tirely from in water from land simpleted by Peet ar River diversions. Disc restricts for the Sacra of to 's Batta Basin ver Milth at Cluss Weir 's e whim Tatles 51 and 5c. Firled of recruity: to data. Recrude for by 'c yuted by Divis' i f Water Restricts and some

TABLE 55 FLOW OF RECLAMATION DISTRICT 70 DRAIN - 1955

Date					Osily	Maan Flow	in Sacond-	Feat				
Dace	Jan.	Feb.	Merch	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Oac.
12345	13 16 16 9.6 0	18 18 0 14 15	8.8 0 16 28	19 21 22 23 34	36 40 53 116 102	48 49 44 43 37	51 41 43 60 65	53 54 5 4 49 42	48 78 73 73 70	12 12 12 16 16	*11 *11 *11 *11 *11	20 11 7.7 17 7.7
6 7 8 9 10	16 0 14 0 15	0 16 13 11 11	0 0 38 0	30 28 19 20 30	116 102 71 30 35	36 30 34 31 21	59 51 49 58 48	43 44 53 52	78 160 129 110 113	16 *12 *12 *12 12	*11 *11 *11 *4.8 *4.8	5.4 0 0
11 12 13 14 15	15 18 5.0 3.8 10	0 15 0 15 0	0 16 12 0 24	31 30 30 0	28 28 52 52 50	19 14 33 28 27	54 54 54 51 49	52 51 59 57 56	0 0 112 113 101	12 8.2 12 12 12	*4.8 *4.8 *4.8 *4.8 4.8	0 0 0 0
16 17 18 19 20	18 12 40 30 30	14 11 18 0	15 12 13 8.8 8.8	0 19 18 110 30	55 76 25 15	27 33 20 20 32	51 48 48 51 53	56 56 50 59	98 111 86 81 86	12 8,2 *5.8 *5.8 *5.8	8 16 0 11	11 11 0 0 119
21 22 23 24 25	9.2 33 30 25 19	0 15 0 13 0	10 11 12 13 13	245060 3000 3000	25 16 16 16	27 23 24 26 21	66 60 61 48	61 60 70 73 64	64 54 41 30 24	888822 *555888 **888	4.8 0 2.5	134 109 154 164 151
26 27 28 29 30 31	15 15 15 15 16 8.8	0 15 0	13 14 14 14 14 14 11	41 38 16 22 36	16 29 40 41 43 52	21 20 23 19 32	49 50 55 55 58	82 84 77 74 74	30 24 16 24 16	*5.8 *5.8 *5.8 *5.8 *5.8 *5.8	0.6 0 16 0 57	164 175 136 95.6 87 13
Mean	15.6	8.3	10.9	28.4	46.8	28.7	52.9	59.4	68.0	9.5	7.8	51.4
Ac-Ft	957	460	673	1690	2880	1710	3253	3652	4052	584	465	3158
Maximum Dischar	ge			·					Total Runoff in Acra-Feet	Calen Watar	dar Year Year	23534 21800

This is the drainage from Reclamation District 70 returned to the Sacramento River at Mile 60, 61. This plant discharges both to the Sacramento River and to an irrigation cenel end is a combination irrigation and drainage plant. The above flow includes gravity as well as pumped drainage. Feriod of record 1924 to date. Records for 1955 computed by Division of Water Resources.

TABLE 56

FLOW OVER TISDALE WEIR FROM SACRAMENTO RIVER TO SUTTER BY-PASS - 1955

Data					Daily	Maan Flow	in Second	-Feet				
Data	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
10 245												00000
6 7 8 9 10												00000
11 12 13 14 15	N	N O	N O	N O	N O	N O	N O	N	N O	N O	N O	000000000000000000000000000000000000000
16 17 18 19 20	F L O W	F L O W	F L W	F L O W	F L O W	F L O W	F L O W	F L V	F L W	F L O W	F L O W	0 0 375 10000
21 22 23 24 25												14700 15900 18900 21000 20800
26 27 28 29 30 31		=				_						19800 18400 18900 18400 17300 16200
Mean	0	0	0	0	0	0	0	0	0	0	0	6796
c-Ft	0	0	0	0	0	0	0	0	0	0	0	417900
iaximum)ischar	n Cale d	er year	,200 cs	. December	24, 1955	·· <u>··</u> ·····			Totel Runoff in Acra-Feat	Celan Water	der Yeer Year	417900 19016

Station is located on Sacramento River at Mile 04.22. Elevation of creat is 45.45 U.S.E.D. astum; length of creat is 1155 feet. Feriod of record 1 /40 to date. Record for 1955 computed by Division of Water Resources.

TABLE 57 PLOW OF RECLAMATION DISTRICT 108 DRAIN AT ROUGH AND READY BEND - 1955

Date					Dail	y Maan Flow	v in Second	i-Feet				
Dare	Jan.	Feb.	March	April	Mey	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	0 70 98 20 26	50 58 48 50 26	53 43 21 44	44 0 36 27 0	346 298 300 406 379	279 274 270 268 198	313 312 347 439 310	362 362 360 322 352	400 390 431 511 473	95 0 32 0 44	00000	27 04 0
6 7 8 9 10	37 31 26 33 57	0 61 58 40	0 32 0 0	28 58 40 18 82	357 301 335 373 366	296 267 185 282 297	312 357 355 323 323	374 367 358 364 405	+27 410 388 410 38'	0 35 0 32	0 34 0 0	¥0 38 32 38
11 12 13 14 15	0 62 64 61 46	34 26 47 37	40 55 0	48 36 32 43 49	36c 378 404 435 597	29** 297 297 297 297 297	264 304 328 328 326	392 390 377 455 371	409 3*7 318 303 116	*3 0 40 0 39	20 0 0 0 0	c 25 0 32 0
16 17 18 19 20	70 38 53 163 26	45 25 25 25 0	29 52 57 56 25	72 85 131 115 26	412 458 463 480 456	297 298 298 298 298 297	326 326 326 326 326 327	396 428 432 415 423	304 292 255 201 199	0 35 0 35 0	20 0 34 0 0	57 0 31 372 386
21 22 23 24 25	29 30 56 44 46	25 0 0 27	28 39 20 0 36	271 280 234 288 217	476 660 423 442 454	295 293 203 295 292	328 328 328 407 377	505 431 364 390 384	109 161 81 150 96	33 0 21 0	27 0 69 0	338 366 470 513 382
26 27 28 29 30 31	45 61 61 49 68 46	0 0 57	18 0 44 0 43 0	261 278 252 240 247	458 458 448 375 215 279	169 298 297 330 332	327 370 365 369 370 438	382 381 440 379 360 399	49 43 64 76 0	23 0 0 0 0	0 29 0	368 423 306 171 126 45
Mean	48.9	29	23.7	118	406	280	342	391	260	16.4	7.8	149
Ac-Ft	3007	1611	1458	7018	24990	16650	21020	24040	15470	1006	462	9183
Maximum Dischar									Total Runof in Acre-Fee	t Water	dar Year Year	125895 126268

This is the drainage from Reclamation District 108 discharged to the Sacramento River at Mile 4.0R. Agaitional drainage from Reclamation District 108 is sometimes discharged to Eack Borrow Fit at Mile 19.9L. Period of record 1924 to date. Records for 1955 computed by Division of Water Resources.

Data					Daily	Maan Flow	in Second-	Faat				
Data	Jan.	Fab.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	0											
6 7 8 9 10												
11 12 13 14 15				Record	s sufficie	ent to comp	oute only m	wonthly fl	ожа.	-		
16 17 18 19 20		·										
21 22 23 24 25												
26 27 28 29 30 31						_			_			
Mean	10.4	4.5	1.4	13.4	24.8	16.8	19.6	21.9	13.4	0.3	0	46.4
c-Ft	041	250	89	799	1523	1000	1207	1349	799	20	0	2855
aximum iachsrge									Totsl Runoff in Acre-Feet	Cslen Water	dar Year Year	10532 8551

TABLE 58 FLOW OF RECLAMATION DISTRICT 787 DRAIN - 1955

This is he dreinage from Hec anation Dietrictory discharged by pamping to the Sacra entro Hiver it lieston. Additional dreinage from Reclamation Districtory 7 is discharged to the Back Borrow Pit show the hnights Landing Outfail Getes vie Sycamore Shough. (See Tatla 3). For d force rd 1 49 to date. Records for 1955 computed by Division of water Resources.

TABLE 59

FLOW OF COLUSA TROUGH AT HIGHWAY 20 - 1955

Data					Daily	7 Mean Flow	in Second	-Faat				
Data	Jan.	Føb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 745	227 228 225 213 201	198 184 172 159 171	106 106 103 102 98	307 357 401 359 312	915 955 945 893 857	621 643 601 669 703	669 651 651 681 697	735 699 689 711 711	1120 1220 1270 1330 1410	302 350 381 383 366	381 399 397 417 393	178 159 145 153 145
6 7 8 9 10	200 205 201 235 401	159 150 147 147 151	90 90 92 103 108	22 3 254 273 302 206	793 747 877 955 939	631 533 345 361 341	647 621 595 567 613	717 797 807 719 691	1530 1640 1700 1710 1670	309 291 302 327 372	390 375 350 347 339	257 318 225 459 483
11 12 13 14 15	508 489 451 415 375	147 142 142 135 137	97 100 102 103 96	284 282 139 97 86	859 957 1030 1160 1130	318 413 442 447 483	675 687 661 679 693	755 789 807 785 769	1430 1240 1170 1080 971	402 311 312 347 341	348 348 472 781 556	329 285 254 232 205
16 17 18 19 20	345 314 424 510 483	131 131 124 120 115	82 79 67 64 53	57 102 232 318 384	1130 1280 1400 1400 1300	565 597 569 611 647	611 629 617 641 687	767 841 915 849 893	905 823 707 601 559	348 345 321 336 370	374 383 366 334 345	210 203 338 1690 2570
21 22 23 24 25	433 348 303 291 271	114 114 114 112 112	58 60 68 139 118	775 1170 1180 955 857	1220 1050 885 677 550	601 527 485 476 459	675 687 691 735 689	861 873 879 857 857	487 474 476 442 419	383 399 415 426 393	339 318 300 388 356	2760 2950 3230 3390 3300
26 27 28 29 30 31	246 222 203 194 188 189	109 114 109	139 167 269 276 296 316	1200 1130 957 907 889	538 643 669 677 665 637	466 550 617 597 637	647 629 677 715 739 731	883 927 957 1030 1030 1040	381 348 345 296 276	393 393 388 395 388 404	302 262 239 225 193	3170 3150 3080 2950 2740 21460
Mean	308	138	121	500	927	532	664	827	934	361	367	1355
Ac•Ft	18920	7656	7432	29740	56990	31650	40830	50860	55600	22200	21850	83340
Maximum Dischar		r year 410			Total Runof in Acre-Fee	t Wate	ndar Year r Year	427068 400828				

Division of Water Resources station located 37.0 files above the mouth of Back Borrow Fit of Reclamation District 108. This station is also known as Colusa Trough at Tahoe-Ukiah Highway and Colusa Trough at Colusa Williams Highway. The flow is return water flowing in the main drain of Reclamation D strict 2047; it is drainage chiefly from Lands irrigated by Glenn-Colusa, Provi-dent, Princeton-Codora-Gleun, Compton-Delevan, Maxwe'l, and Jacinto Irrigation District. Flow reaches Sacramento River, at Mile 34.15R, through the Knights Landing Outfall Gates via Back Borrow Fit, (sae Table 62). Feriod of record 1924 to date. Formerly published as Colusa Trough at Colusa-Williams Highway.

TABLE 60

FLOW OF BACK BORROW PIT (COLUSA TROUGH) NEAR COLLEGE CITY - 1955

Data					Daily	Msan Flow	in Second	-Føet				
Date	Jan.	Fab.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12745	239 236 239 234 219	192 189 172 161 159	116 11/1 116 112 104	381 428 451 434 395	926 994 1040 9814 922	717 688 685 669 733	616 622 601 625 650	784 749 726 736 739	1210 1320 1370 1460 1510	331 368 386 392 412	362 360 370 389 378	163 145 118 114 100
6 7 8 9 10	212 214 204 209 329	163 154 143 148 159	96 88 96 114 134	297 222 265 344 266	878 781 982 1020 1070	662 583 381 342 347	628 577 553 493 535	710 790 831 807 723	1590 1690 1780 1810 1830	339 334 339 389 389	368 373 334 321 331	165 264 182 321 490
11 12 13 14 15	496 517 496 434 378	163 152 152 145 145	120 112 120 134 122	339 378 256 124 96	922 970 1120 1240 1280	318 368 431 428 479	616 659 682 631 675	755 807 848 878 8144	1760 1590 1480 1380 1260	456 400 368 375 360	318 326 360 678 589	426 323 246 224 202
16 17 18 19 20	352 331 426 675 473	145 141 132 120 116	108 86 92 79 81	65 8.0 58 244 279	1260 1370 1460 1500 1430	568 610 592 604 610	604 628 637 650 701	810 851 970 922 950	1140 1040 926 774 720	355 347 326 334 362	384 349 357 321 310	204 189 *264 *1500 *2500
21 22 23 24 25	437 373 360 398 389	118 116 118 116 116	77 85 72 100 266	656 1170 1310 1120 962	1360 1240 1940 844 666	586 526 465 417 389	691 717 701 762 723	946 946 967 970 946	610 535 535 529 505	381 378 381 406 375	316 310 28 ¹ 4 323 339	*2850 *3350 *3600 *3700 *3600
26 27 28 29 30 31	308 246 212 196 186 184	112 128 126	234 236 336 362 375 423	1070 1160 997 946 854	580 675 739 765 758 704	381 462 604 580 616	666 628 646 707 758 787	967 1020 1100 1130 1190 1200	462 417 395 381 334	362 365 370 381 373 378	282 242 219 202 182	*3500 *3320 *3180 *3080 *2900 *2700
Mean	329	143	152	519	1014	528	651	891	1078	371	343	1/417
Ac-Ft	20240	7936	9342	30890	62320	31420	40000	54770	64150	22830	20380	.7110
Maximum Dischar					Total Runoff in Acre-Feet		ndar Year r Year	451388 433408				

Division of Water Resources station located on Back Borrow Fit of Reclamation District 100 at Mile 22.7. This is return water derived chiefly from lands irrigated by Glenn-Colusa, Provident, Princeton-Codora-Gleun, Compton-Delevan, Maxwell, and Jacinto Irrigation Districts. Feriod of record 1946 to 952 and 1954 to date.

TABLE 61 PLOW OF RIDGE CUT AT KNIGHTS LANDING - 1955

Date					Daily	Maan Flow	in Second	-Feet				
Dare	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
エンタートナン	16 36 49		•1.8 •1.8 •1.8 •1.8 •1.8 •1.8	*: 9 *:99 *:09 *:09 *:09	•766 •76 0 •76 •76	● 9€ ● 95 ● 95 ● 96 ● 96	*114 *114 *114 *114 *114	•97 •87 •87 •87 •87	•3;;; •3;;; •3;;; •3;;;		0000	00000
6 7 8 9 10	28 7.2 0 0		•1.8 •1.8 •1.8 •1.8 •1.8 •1.8	•19 •59 •69 •69 •69	*76 *76 *76 *76 *76	*96 *96 *96 *96 *96	*114 *114 *114 *114 *113	•87 •87 •87 •87 •87	• 54 • 54 • 54 • 55 • 55 • 55 • 55		0 0 0 0	0 0 18 59
11 12 13 14 15	7.6 39 35 18 4.5	N O	*1.8 *1.8 *1.8 *1.8 *1.8 *1.8	*69 *69 *69 *79 *79	*76 *76 *76 *76	•96 •96 •96 •96 •96 •96	*113 *113 *113 *113 *113 *113	•87 •87 •87 •87 •87	* 33 * 33 * 33 * 33 * 33	о К	0 0 0 0	130 51 3.0 0
16 17 18 19 20	0 18 52 172 462	P L O W	*1.9 *1.9 *1.9 *1.9 *1.9	*09 *69 *70 *70 *70	*76 *76 *76 *76 *76	●96 ●96 ●96 ●96 ●96 ●96	•113 •113 •113 •113 •113 •113	•88 •88 •88 •88 •88	• 33 • 33 • 33 • 33 • 33 • 33	P L O W	00000	0 000 000 000
21 22 23 24 25	514 504 450 227 112		*1.9 *1.9 *1.9 *1.9 *1.9 *1.9	•70 •70 •70 •70 •70 •70	•76 •76 •76 •76 •76	*96 *96 *96 *96 *96	•113 •113 •113 •113 •113	•88 •88 •88 •88 •88	* 33 * 33 * 33 * 33 * 33 * 33 * 33 * 33		0 0 14 8.2 0	*218 *670 *3570 *3900 *2700
26 27 28 29 30 31	59 35 7.9 0	=	*1.9 *1.9 *1.9 *1.9 *1.9 *1.9	•70 •70 •70 •70 •70	•76 •76 •76 •76 •76 •76	*96 *96 *96 *96 *96	*113 *113 *113 *113 *113 *113	• 88 • 83 • 88 • 88 • 88 • 88 • 88	• 33 • 33 • 33 • 33 • 33 • 33		00000	*3800 *560 *5000 *5000 *3700 *3850 *3000
Mean	93.0	0	1.8	69.4	76	96	113	87.5	33	С	•	11 2
Ac-Ft	5657	0	114	4132	4673	5712	6966	5381	1980	0		2090
Maximum Dischar									Total Runoff in Acre-Feet		dar Year Year	106~49 59329

In Acce-Feet Water Year 2002 Klights Lending Ridge Cut diverts water from the Back Borrow Fit of Reclamation District 100, at a joint wove the overfall getes, into the Yolo By-Pass above Elkhorm. Winter flows are uncontrolled. Summer flows for irrigation are controlled at the outfall getes and at the junction with Yolo By-Pass by weir boards and gates. Period of record 1933 to date. Records for 1954, computed by Division of Water Resources.

TABLE 62

FLOW OF COLUSA BASIN DRAINAGE TO SACRAMENTO RIVER AT KNIGHTS LANDING - 1 55

					Daily	Mean Flow	in Second	-Feat				
Data	Jan.	Peb.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	122 0 0 52	214 199 224 376 243	147 149 1553 149	423 459 453 342	666 532 992 1020 944	615 554 564 564 570	528 520 520 520	* 3 × 692 6655 6655	12.50 1330 1430 1550	175 375 434 471	570	227 2.2 1.4 153 14.
6 7 8 9 10	540 442 372 346	212 188 165 165 159	140 147 147 141 .2	191 204 145 120 1 4	870 706 613 620 976	564 516 324 94 6.6	524 520 512 448 372	* 60 660 67 - 762 737	1530 1535 1835 1830 1830 1 10	438 3 3 378 -000 -15	407 475 445 -30 412	139 58 0 203
11 12 13 14 15	4 4 634 630 - 82 49	170 177 17L 105 141	130 105 114 131 143	152 130 199 181 25	915 775 827 1276 1140	54 80 170 220 224	3 7 2 4 A	650 670 754	1910 e1.30 -171: e1070 e102	508 505 -534 -34	477 - 26 B	572 702 602 307 306
16 17 18 19 20	342 342 51 2 77 0	137 143 140 120 133	126 11 108 11h 00	00000	1120 1170 1460 1530 153	463 168 160 172 172	2001 2001 2002 2002 2002 2002 2002 2002	792 730 792 804 78	el4 e.250 el130 el50 có	4.28 208 378 377 377	- 42 - 42 - 72 - 72	2 7 312 2.6 12 0
21 22 23 24 25	24 106 107	137 135 135 122 122	83 32 00	499 150 120 933	141 134 *1050 *821 705	.08 3765 3765 272	580 62- 620 624	017 826 304 58 919	00 723 094 0	427 	.110 237 9 532	0 - L C L
26 27 28 29 30 31	47 10- 416 - 5 64	95 143 165	0 36 422 312 130	514 1060 74 750 (43	471 376 455 551 014 63	176 152 320 530 52	616 540 570 570 518	012 91 1010 10 0 1100 1220	5~7 -36 -467 -16	453 430 4330 4330 4330 433 33 433 33 433 33	3-8 338 270 -40	0 0 0 0 0
Mean	31 -	164	110	174	+1 <i>C</i>	34-	ج, د	07	1c1u	431	433	144
Ac-Ft	u7 (37	7301	.255	r 1	61790	3231	4.53	72.7	65.	_7 v	44.+2
Maximum Dischar									Total Runofi in Acre-Feet		ndar Year r Year	355470

This is the drainage fr. Cluss Essin easine down the Enck Borrow pit of Reclamati Districts 10 and of and entering the Sommer's River at Mile 1956, just a veotie Kniphts Landing gaving station. Flows are controlled at the Kni its Landing to the Software and a riter of the flow of the Back Borrow pit is diverted to the Kni its Landing Taylor and entering the Software and a riter of the Back Borrow pit is diverted to the Kni its Landing the Cluster and a riter of the Back Borrow pit is diverted to the Kni its Landing Taylor and entering the Software are controlled at the Kni its Landing the Software are controlled at the Kni its Landing the Cluster and Software are controlled at the Kni its Landing the Cluster and Software are controlled at the Kni its Landing the Cluster and Software are controlled at the Kni its Landing the Cluster and Software are controlled at the Kni its Landing the Cluster are controlled at the Kni its Landing the Cluster are controlled at the Kni its Landing the Cluster are controlled at the Kni its Landing the Cluster are controlled at the Kni its Landing the Cluster are controlled at the Kni its Landing the Cluster are controlled at the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing the Cluster are controlled to the Kni its Landing t

TABLE 03

FLOW OF SYCAMORE SLOUGH NEAR KNIGHTS LANDING - 1955

	-				Ded3m	Mean Flow	to Commit	Deet				
Data	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	0.000	100.	march	- ADI - A	114.5	Junc	Jury	Aug.	Sept.	000.	1004.	080.
6 7 8 9 10												
11 12 13 14 15				Record	s sufficie	nt to comp	ute only m	onthly flo	ws.			
16 17 18 19 20												
21 22 23 24 25	-											
26 27 28 29 30 31		=		_		_			_		_	
Mean	3.3	2.1	1.0	21.7	24.7	18.4	21.6	26.4	14.6	0.8	0.4	21.9
c-Ft	206	114	60	1292	1517	1095	1330	1622	870	51	25	1349
aximum 1schar								1	Total Runoff In Acre-Feat	Watar		9531 8410

This water is discharged from Reclamation District 787 by pumping into Colusa Basi, Drain below the outfall gates and is not included in the flow shown in Table 52. Daily distribution of flows are not available since the plant operates on an automatic float switci. See Table 58 for additional drainage from Reclamation District 787. Period of record 1940 to data. Records for 1955 computed by Division of Water Resources.

TABLE 64

FLOW OVER FREMONT WEIR FROM SACRAMENTO RIVER TO YOLO BY-PASS - 1955

Date					Daily	Mean Flow	in Sacond-	Fast				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Oec.
12745												0 0 0 0
6 7 8 9 10												0 0 0 0
11 12 13 14 15	N O	N O	N O	N O	N O	N O	N O	N O	N O	N O	N O	0 0 0 0
16 17 18 19 20	F L O W	F L W	F L O W	F L W	0 0 0 1830							
21 22 23 24 25												46900 97200 256000 151000 106000
26 27 28 29 30 31		=		_		_			_		_	141000 149000 153000 133000 99800 73500
Maan	0	0	0	0	0	0	0	0	0	0	0	45430
c-Ft	0	0	0	0	0	0	0	0	0	0	0	2793000

Station is located on Sacra ito River at Hile 23.0R. clevation of crest is 33.5 . S. dat m; leigth of crest is 9120 f et. Period of record out to dale. Records for 1,55 computed by Division of Water Resources.

TABLE 35 FLOW OF BUTTE SLOUGH TO SUTTER BY-PASS - 1955

Date					Deily	Meen Flow	in Second	-Feet				
Dace	Jan.	Fab.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 2 345	*296 *808 *801 538 430	290 • 376 • 307 • 166 • 137	151 138 110 89 73	181 142 144 139 134	301 271 220 203 189	188 206 186 164 183	250 201 200 203 189	167 169 175 158 156	141 142 138 138 134	20 27 26 23 18	206 206 204 198 195	40 154 181 184 184
6 7 8 9 10	375 332 298 277 319	*128 *128 *127 *127 *127 *124	62 58 54 72 103	145 171 150 171 165	204 198 198 186 182	195 163 171 165 159	211 182 183 176 174	151 158 174 175 177	140 140 145 142	11 11 13 19 29	194 198 201 192 187	172 254 641 845 737
11 12 13 14 15	498 533 461 413 385	117 110 101 115 122	117 119 116 107 93	138 144 134 118 111	171 176 174 187 198	158 161 156 145 149	173 182 176 165 162	173 168 179 177 175	139 135 133 125 127	40 41 558 50	179 180 199 153 36	725 329 329 258 20∻
16 17 18 19 20	392 533 710 1210 1460	121 124 130 141 137	7 7 65 59 55 50	134 139 158 188 167	197 173 188 212 208	153 153 158 163 163	161 157 159 151 150	155 134 131 134 131	138 123 118 113 114	44 41 25 14 11	22 18 23 33 55	153 114 197 825 2420
21 22 23 24 25	1550 1500 1240 1050 879	129 124 116 117 113	89 108 99 94 123	191 338 905 717 419	198 183 188 188 185	157 157 182 180 185	155 149 146 159 171	139 138 133 135 136	104 82 54 * 37 • 25	14 16 20 22 26	278 278 341 178 146	19700 35100 43600 70200 81500
26 27 28 29 30 31	734 518 423 363 323 294	110 108 128	136 134 129 131 144 179	326 451 492 379 315	179 183 176 177 183 174	187 223 225 233 233	164 151 150 155 167 174	142 140 126 133 137 141	•22 16 8.2 6.4 7.8	42 125 172 192 202 203	122 65 44 37 29	71200 58900 57000 52700 45600 38800
Mean	645	145	101	250	195	177	172	152	101	52.0	1+0	18830
Ac-Ft	39680	8079	6216	14890	12000	10550	10560	9356	6005	3195	8319	1158000
Maximum Dischar		r yeer 84,	400 c.f.s.		Totel Runoff in Acre-Feet		dar Year Year	1265850 1(1197				

In Arre-Feet Water Year 1:1197 This is discharge from Butte Slough to Sutter By-Pers. During low flow periods gates at a c of slough, are regulated (Table 54) which forces wether under Long Bridge as shown in this table. Normal summer flows are riminily from Fe ther Blues Surveys. During flood periods Secrements River water enters Butte Basin above Butte City by back spill and over Ku iton and Coluse Wairs. The unpress of the summar regulation is to make water eveniable for use on Sutter By-Pers 1 wide (.elow long bridge) and Butte Slo gh Irrigation Company in Reclamation District 70. Period of record 1939 to data. Records for 1955 computed by Division of Water Resources. * Estimated

TABLE 66

FLOW OF WADSWORTH CANAL TO SUTTER BY-PASS - 1955

Data					Daily	Mean Flow	in Second-F	'eet				
Dara	Jen.	Fab.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	60 • 58 • 55 • 52 • 48	74 69 62 62	41 38 36 34	8358 4838 948	120 132 134 127 91	180 168 183 215 204	70 75 62 76	45 52 50 62 51	81 74 91 100 120	116 122 126 •70 •68	60 55 53 56 59	27 27 26 22 27
6 7 8 9 10	*46 43 41 53 105	61 58 56 56	35 17 26 34 33	44 53 55 68 115	77 72 62 74 87	190 178 142 129 113	102 86 60 48 43	62 59 *59 *52 *50	120 151 *117 *110 *145	*72 *72 *60 *71	52 55 47 56 79	70 60 52 85 62
11 12 13 14 15	78 71 70 64 99	55 53 50 48	32 32 33 31 32	108 88 75 96 76	98 100 132 194 137	132 170 153 145 135	38 57 63 46 30	*51 *52 *55 *57 *60	*197 *256 *246 236 240	•107 62 57 59 54	83 83 126 112 59	58 54 7 48 7 48
16 17 18 19 20	122 94 236 223 189	48 46 43 41 41	3366 3366 334	53 60 50 54 66	127 176 210 *192 *175	135 146 146 145 124	14 20 32 40 44	*55 *18 12 23 48	248 236 204 194 171	62 •36 •70 •22 •102	49 43 41 33	47 55 90 650 1160
21 22 23 24 25	143 124 111 103 95	41 38 39 39 39	12 9.6 12 11 3.8	168 194 129 110 120	158 192 195 180 176	110 90 93 104 90	53 55 54 43	75 62 43 53 93	173 151 145 145 148	•220 •189 •199 •192 •147	30 • 32 • 34 • 34 • 34	1330 1120 1030 • 946 • 616
26 27 28 29 30 31	91 86 82 79 78 76	38 46 43	4.0 11 12 19 54 4t	138 114 120 106 106	185 204 180 180 204 232	93 87 55 47 61	32 38 57 57 60 26	88 88 114 129 148 129	134 147 118 118 126	•156 •64 60 62 66 61	33 33 31 29 26	•1030 •962 •005 •488 •349 •507
Meen	92.1	50.8	27.9	90.1	148	132	51.9	64.4	158	93.4	51.7	379
le-Pt	5702	5 1)	1713	5301	9130	7860	3191	3957	9406	5740	3076	23320
ozimum ischer	n Calsidar		e.f.a. Do					in	tal Runoff Aore-Peet	Water	ar Year Year	81275 68480

This is the discharge (measured at Weir #4) to the East Borrow bit of the Shiter By-Pass at Alle 1(.5 (nort, from Chundler). This flow is made up primarily of Peatter River rainers or return flows. This flow and flow from Butte Slough (Table 65) makes a, the shife Featter River contribution to the Shiter By-Fass. Heriod of record 1v39 to dete. Records for 1955 computed a Division of Water Resinces.

TABLE 07

FLOW OF RECLAMATION DISTRICT 1500 DRAIN - 1955

Date					Daily	Mean Flow	in Second	-Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	0 156 63 124 64	64 64 97 65	64 64 0 0	72 49 55 36	160 147 228 163 228	513 513 574 513 513	1250 1190 1100 1100 1100	1190 1160 1130 1100 1100	1070 1040 937 937 571	180 43 0	46 45 41 37 42	00000
6 7 8 9 10	64 64 116 152 176	128 65 65 130	117 0 176 64	48 48 50 74	163 153 437 287 284	445 513 513 445 513	1100 1100 1040 1070 1160	1100 1100 1100 1100 1100	510 581 581 445 513	0 0 213 128 95	37 36 38 33 36	64 0 126 0
11 12 13 14 15	188 152 0 128 128	130 116 52 64 120	0 84 0	27 63 34 72 4.0	285 286 287 288 418	734 862 937 973 1010	1130 1130 1130 1160 1130	1100 1100 1130 1100 1100	574 574 574 513 513	96 94 67 66 95	31 34 36 35 33	152 0 96 0
16 17 18 19 20	204 168 256 346 290	64 64 64 64	65 65 65 0	16 0 0 121	226 317 357 317 314	936 937 973 1010 1040	1190 1130 1160 1130 1160	1130 1130 1070 1130 1130	574 367 673 443 423	92 93 75 71 83	32 36 8.0 0 91	96 0 132 573 783
21 22 23 24 25	239 .62 164 192 128	0 654 64 64	0 0 14 57	59 98 118 59 275	357 525 288 356 356	1100 1130 1190 1250 1330	1130 1130 1130 1100 1100	1160 1220 1190 1220 1220	391 354 287 289 268	60 75 65 57 82	26 12 0 86 0	722 708 831 855 700
26 27 28 29 30 31	128 160 128 128 192 128	64 120 64 0	0 59 131 65 130 112	165 0 130 65	357 357 262 194 564 135	1380 1350 1350 1270 1270	1190 1250 1250 1250 1250 1250	1220 1190 1190 1160 1160 1160	226 210 198 162 191	72 56 79 61 72 50	0 88 0 0 0	1010 928 653 466 490
Mean	145	73.2	43.0	60.8	293	903	1151	1140	500	74.7	31.3	324
Ac-Ft	8902	4066	2642	3620	18040	53730	70790	70080	29730	4596	1862	19910
Maximum Dischar					Total Runoff in Acre-Feat		dar Year Year	287968 285044				

This is the dral age from Reclamation District 1500 discharged to Wast Borrow Fit of Sutter By-Pass and thence via Sacramento Slough (in the By-Pass) to Sacramento River, (see Table 68). Drainage is by pumping and gravity. Period of record 1930 to date. Records for 1955 computed by Division of Water Resources.

TABLE 68

FLOW OF SACRAMENTO SLOUGH TO SACRAMENTO RIVER - 1955

Date					Dail	y Maan Flow	/ in Second	l-Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 245	*h10 *500 *190 *700 *310	633 551 534 635 507	303 342 244 242 168	413 304 378 410 354	726 690 736 662 624	001 962 915 362 736	481 467 496 502 541	515 505 472 437	730 735 719 712 663	283 253 171 187 211	204 215 217 224 230	281 267 262 231 237
6 7 8 9 10	*904 :63 :595 776 503	611 04 439 345 320	201 186 170 181 215	2d6 222 176 133 174	604 007 646 517 670	664 755 347 795 639	540 500 533 495	450 434 435 451 445	671 606 699 892 956	211 205 200 357 226	212 243 374 313 280	290 698 601 1570 1260
11 12 13 14 15	365 397 501 750 828	410 332 360 246 292	260 205 300 201 197	218 298 262 282 282 282	781 764 704 730 876	646 571 521 603 657	490 465 401 477 471	456 462 469 463	21 896 919 1150 1160	223 277 307 301 244	242 276 248 252 237	1100 1030 844 659 541
16 17 18 19 20	816 757 749 726 1000	353 279 310 330 270	261 274 231 238 200	203 154 162 218 364	765 792 120 747 862	688 700 727 673 631	447 426 515 410 1416	509 518 530 530 529	1160 1180 1600 59 948	241 237 300 292 276	337 319 297 254 286	421 419 525 936
21 22 23 24 25	1730 2210 2290 1870 1660	283 189 1 8 231 230	187 203 133 161 158	302 435 517 355 1030	902 1030 851 898 875	612 -63 542 447 386	558 455 439 492	535 556 598 597	1000 830 695 644 682	242 200 232 189 190	263 404 763 771 671	F L O O
26 27 28 29 30 31	1330 1230 1090 979 852	180 257 237	188 182 219 297 307 408	1080 722 758 781 747	926 910 911 791 1020 746	390 *400 *4461 *455 470	4465 4459 456 430 503	594 618 633 667 64 692	462 596 509 1425 363	174 185 188 201 205 211	680 404 331 292 252	D E D
Mean	1022	362	232	423	700	644	477	526	815	233	338	
Ac-Ft	6286d	-0110	14280	25180	47980	-330	0 يو ۲۷	32330	48520	14320	20140	
Maximum Dischar	iximum .scharge								Total Runof in Acre-Fee		ndar Year r Year	444850

In Acre-rest Water rear MADON This is the discharge to the Sacramento River at Mile 21.21 via Sacramento Slouph. This is the antire outflow of the Sutter By-Pass area and Relamation District 1500. During high water periods the slouph is entirely submerged as it lies within the By-Pass area. Sharp rises in river elevation will cause zoro or negative flow. See Tables 65, 60, 67 and 56, which, when combined, will give the measured flow entering the By-Pass area. Period of record 1924 to date. Records for 1955 computed by Division of Water Resources. * Estimated

TABLE 69 FLOW OF FEATHER RIVER NEAR OROVILLE - 1955

Date					Daily	Mean Flow	In Second	I-Feet				
Date	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	6340 5110 3560 3590 2950	2470 2110 1920 1880 1680	2110 1950 2080 2120 2000	4980 5140 4250 3980 3640	4970 5030 50≈0 5200 5460	4390 4000 4320 4300 4-20	2210 2160 2150 2150 2150 2140	2000 2000 1980 1960 1950	1580 1550 1540 1540 1540	1350 1260 1300 1430 1500	1800 1910 1870 1800 1510	2550 2630 2200 1980 2180
6 7 8 9 10	2270 2240 1840 1810 2430	1670 1610 1580 1530 1680	1820 1950 2080 2780 4380	3540 3430 3530 3920 4250	7620 8300 9700 10600 10100	3870 3530 3590 3790 3210	2110 2060 2020 2000 1990	1940 1930 1900 1900 1900	1520 1460 1440 1440 1440	1590 1700 1450 1260 1460	1340 1460 1800 1760 1760	8450 5170 3370 3920 3490
11 12 13 14 15	1900 1770 2070 1890 1930	1700 1640 1530 1590 1720	3980 3930 3980 4180 4030	4510 4560 4060 3730 3450	9930 9860 9860 8670 6860	3150 3140 3230 3100 2980	2000 2000 1980 2010 2010	1900 1910 1900 1860 1860	1440 1540 1680 1770 1820	1800 1700 1640 1630 1590	1760 1550 1460 1750 1920	2260 2570 2780 2900 2770
16 17 18 19 20	1920 2180 3140 2420 1910	1880 2360 3000 2290 2180	3330 2880 3080 2930 2460	3390 3800 4220 4040 4460	6210 5930 5990 6960 7500	2870 2730 2420 2340 2310	1990 1960 1970 1980 2010	1820 1810 1820 1810 1780	1720 1740 1550 1470 1430	1560 1450 1450 1590 1670	1920 2200 2450 2410 2430	2900 4520 6980 50700 66500
21 22 23 24 25	1790 1790 1790 1800 1740	2070 1980 1980 2000 2000	2880 2330 2460 2460 2980	5880 6300 5620 5660 5690	7380 7360 7020 6660 5850	2280 2250 2290 2300 2310	1990 1990 1990 2000 2010	1760 1730 1720 1720 1720	1540 1610 1540 1650 1310	1670 1680 1370 1440 1680	~700 3330 2360 2120 2100	49400 150000 172000 92200 45100
26 27 28 29 30 31	1670 1710 1760 1740 1730 1980	2250 3390 2280	3180 3430 4480 7280 6960 5540	6050 5380 5460 5400 5230	5460 5320 5190 4940 4710 4960	2290 2270 2250 2250 2240	2000 1960 1910 1910 1920 2000	1720 1720 1700 1680 1660 1630	1290 1320 1340 1790 1780	1740 1800 1820 1760 1540 1610	2040 1740 1810 1810 1920	63800 51900 31900 21200 17500 15200
Mean	2347	1999	3291	4585	6924	3014	2019	1829	1546	1564	2026	287⇔0
Ac-Ft	144300	111000	202400	272800	425700	179300	124100	112400	91990	96180	120600	1767000
Maximum Dischar		ar year 20 ord 230,00	3,000 c.f.s J c.f.s. Ma		Total Runoff in Acra-Peet		ndar Year r Year	3647770 2297390				

U. S. Genlegicel Survey and Division of Water Recources cooperative station located at sighway crossing about 4.5 miles above Orovilla on right bask, at Mile 71.0 Drainage area is 3611 square miles. Feriod of record 1902 to data. Records for 1955 computed by U. S. Geologicel Survey.

	TA	BL	Е	7	0
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FLOW OF FEATHER RIVER NEAR GRIDLEY - 1955

Date					Daily	Maan Flow	in Second-H	Paet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 2 3 4 5	5400 5060 3510 3480 2910	2160 2040 1860 1750 1760	2040 2010 1940 2060 1970	4040 3910 3360 3020 2640	3240 3200 3230 3280 3380	2380 1770 1940 1960 2040	120 113 109 105 123	38 47 54 78 55	153 247 241 261 294	783 583 543 636	1180 1240 1280 1240 1130	2050 2580 2170 1880 2020
6 7 8 9 10	2350 2200 2010 1850 2040	1520 1600 1560 1570 1540	1890 1780 1980 2340 3550	2470 2280 2270 2660 2750	4850 5510 6520 7490 7160	1940 2130 1330 1550 1220	107 90 80 74 69	51 47 44 41 37	301 268 231 268 351	736 806 843 583 668	9+4 906 1190 1220 1220	6740 5530 3300 3460 3430
11 12 13 14 15	2080 1710 1850 1940 1850	1650 1660 1480 1520 1590	3560 3550 3450 3600 3710	3070 3170 2560 2130 1540	6860 6720 6720 5950 4820	1060 985 1080 1050 887	64 57 52 49 44	41 55 102 137 125	351 371 548 679 789	1110 1110 1030 1010 999	1220 1170 1150 1530 1 00	2410 2350 2540 2720 2520
16 17 18 19 20	1980 1920 2880 2560 2040	1690 2010 2520 2280 2080	3190 2880 2790 2760 2450	1460 1410 2100 1950 2210	3850 3550 3340 4110 4550	862 794 553 355 286	44 44 42 41 42	153 135 155 127 102	868 824 765 777 679	1020 950 887 912 1020	1760 1880 21.0 2330 1960	2710 3480 5310 29500 63000
21 22 23 24 25	1770 1730 1700 1710 1710	1980 1930 1880 1860 1900	2600 2490 2360 2290 2400	3070 4380 3720 3680 3640	4690 4710 4550 4130 3720	212 180 153 145 130	42 44 40 37 48	82 64 59 38	712 856 818 868 736	1020 1030 906 777 971	3740 3240 2320 2090 1960	43800 •125000 •160000 •110000 49500
26 27 28 29 30 31	1680 1580 1730 1660 1 80 1780	2030 2930 2420	2660 2780 3360 5360 6030 *£60	4040 3720 3470 3610 3460	3180 3000 28-0 2730 2400 2500	137 169 142 137 132	72 76 41 45 40	36 38 45 100 115 127	614 609 657 730 985	1100 1130 1170 1170 1030 944	1920 1850 1700 1720 1860	47100 51800 35200 25200 21300 18700
Mean	2269	1885	919	292'	it	924	64,6	76.5	562	904	1696	20050
-Pt	1,9500	164700	119500	174100	- 1500	5~96C	3971	4705	33420	55020	100900	1663000
ximum scharg D is							le 47.7 a.	1i	otal Runofi n Acre-Feet	Wate:	nd ar Year r Year lynn to d	2785876 1554656

D is f Water Res r on statian loca ad at bridle ridle at Mile 49.7 a. we at a remind of record 1944 to date. a Est mated

					TABI	E 71					
FLOW C	ΟF	FEATHER	RIVER	AT	YUBA	CITY	(5TH	ST.	BRIDGE)	-	1955

Data	Daily Mean Flow in Second-Feet													
Data	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
123.45	6310 7840 5780 4480 3860	2560 2880 2460 2230 2210	2610 2370 2150 2150 2220	4940 4620 4200 3470 3090	4000 3760 3820 3840 4070	3380 2470 2180 2300 2610	*323 *315 *310 *303 *298	232 213 210 210 210 225	275 292 368 393 389	1170 900 790 740 801	1240 1440 1520 1500 1420	1940 2710 2520 2210 2050		
6 7 8 9 10	3250 2700 2530 2220 2530	1950 1920 1880 1840 1780	2040 1860 1980 2200 3290	2810 2680 2330 2700 2910	5110 6660 8160 10200 9760	2980 2470 2270 2230 2130	*290 *284 *279 *273 *268	229 241 271 258 241	442 456 413 368 372	858 985 1080 924 784	1200 1060 1150 1370 1320	5860 9460 5000 4210 4370		
11 12 13 14 15	3150 2430 2280 2390 2210	1870 1880 1810 1700 1700	4330 4070 3970 3940 4020	3380 3370 2970 2680 1950	9040 8830 8700 7980 6560	1730 1520 1400 1340 1310	*263 *256 *250 *245 *245 *240	235 210 207 213 238	430 413 487 703 894	1150 1420 1400 1320 1270	1290 1280 1240 1590 1800	3500 2690 2910 2950 3000		
16 17 18 19 20	2780 3230 4080 5990 4840	1800 2020 2580 2860 2410	3600 3090 2740 2850 2650	1680 1540 2550 2650 2590	4800 4180 3820 4320 5150	1250 1030 870 687 601	*235 *231 *228 *223 *223 *220	238 241 258 238 238	1080 1120 1140 991 1030	1270 1270 1150 1120 1200	1910 2030 2310 2520 2230	2990 3400 5620 *18700 *61100		
21 22 23 24 25	3190 2650 2440 2370 2300	2300 2210 2100 2030 2010	2360 2560 2210 2240 2180	3620 6810 5650 4940 4890	5900 6180 6030 5760 5390	518 446 397 345 304	*216 *213 *210 *206 *204	232 265 241 235 222	900 1020 1080 1020 1090	1270 1270 1260 1020 1030	3070 3990 3020 2470 2230	*58000 *74200 NR NR NR NR		
26 27 28 29 30 31	2220 2070 2190 2120 2090 2190	2120 3370 3710	2610 2770 3190 5110 7520 6040	5290 5060 4270 4340 4130	4010 3650 3670 3690 3760 3690	315 330 349 326 333	*201 201 238 235 225	241 261 282 285 285	807 734 745 796 1120	1270 1390 1440 1430 1350 1170	2180 2120 1840 1900 1910	NR NR NR NR NR NR		
Mean	3249	2221	3126	3604	5629	1347	248	241	712	1145	1872			
Ac-Ft	199800	123400	192200	214400	346100	80170	15280	14790	42380	70430	111400			
Maximum Dischar									Total Runoff in Acre-Feat		ndar Yaar r Yaar l	817620		

In Acre-Peet Water Year 1817020 Division of Water Resources station located at Yuba City-Marysville (5th St.) pridge, Mile 28.0 above mouth. Backwater from the Yuba River at times affects the staga-discharge relationship of this station. Period of record 1944 to date. The flows at this station w re estimated for periods of backwater and missing gage height record.

TABLE 72

FLOW OF FEATHER RIVER BELOW SHANGHAI BEND - 1955

Jan. 6600 8670 7160 5440 4840 4140 3480 3260 2930 3220 3890	Feb. 3610 4110 3600 3310 3230 3020 2960 2930 2930 2900 2850	March 4410 3860 3830 3890 3720 3520 3650 3930 5930	Apr11 7630 7160 5880 5380 4970 4700 4310 4560	May 6420 6200 6260 6600 7500 9550 11200	June 5920 4660 4040 4120 4530 5170 4740	July *020 *585 *562 *550 *540 *540	Aug. 454 430 418 412 430 436	Sept. 454 473 520 559 513 506	0ct. 1350 1110 951 861 909 951	Nov. 1450 1090 1790 1770 1710 1530	Dec. 2580 3270 3170 2890 2/10
8670 7160 5440 4840 3480 3260 2930 3220	4110 3600 3310 3230 3020 2960 2930 2900	4070 3860 3830 3890 3720 3520 3650 3930	7160 6760 5880 5380 4970 4700 4310	6160 6200 6260 6600 7500	4660 4040 4120 4530 5170	*585 *562 *550 *540 *542	430 418 412 430 436	473 520 559 513	1110 951 861 909	1090 1790 1770 1710	3270 3170 2890 2710
3480 3260 2930 3220	2960 2930 2900	3520 3650 3930	4700 4310	7500 9550	5170 4740		436	506	951	1530	1. 0
3890		2000	4900	13700 13700	4370 4190 4070	*540 *538 *530 *530	436 480 480 454	513 460 400 394	1070 1180 1070 900	1370 1430 1660 1630	10400 5900 4970 5120
3230 2990 3100 2960	2970 2980 2910 2810 2870	6630 6260 6200 6120 6120	5360 5380 5080 4710 3880	12800 12700 12400 11800 10000	*3950 *3050 *2500 *2020 *2150	*525 *515 *510 *510 *510	448 406 388 388 430	448 436 486 700 892	1190 1470 1500 1430 1380	1560 1540 1530 1860 2130	4290 3370 3540 3610 3670
3700 4260 4980 7140 6080	3030 3310 3970 4330 3840	5800 5250 4860 4900 4700	3370 3230 4480 4770 4550	7910 7030 6550 7010 8080	*2040 *1860 1690 1450 1280	*510 *505 *500 *500 *498	418 406 442 424 418	1080 1140 1140 1050 1070	1400 1400 1310 1260 1340	2310 2490 2770 2960 2780	3£30 3960 6190 *40000 *91600
4340 3650 3400 3320 3260	3750 3620 3460 3390 3360	4340 4570 4210 4220 4120	5600 9370 8760 7630 7510	9040 9430 9230 9070 8620	1290 1300 1270 1230 1220	*495 *495 *490 *490 *488	418 436 418 406 376	942 1040 1140 1090 1150	1400 1420 1420 1230 1190	3210 4570 3750 3130 2860	*103000 *153000 NR NR NR
3170 3050 3110 3080 3040 3140	3520 4940 5710	4610 4860 5280 7190 10300 9060	7900 7780 6820 6720 6570	6820 6170 6190 6220 6490 6330	*1040 *870 *730 *15 *640	*488 *480 *480 *470 467 454	406 424 430 442 473 454	917 830 822 876 1200	1420 1670 1760 1770 1660 1420	2790 2730 2470 2520 2520	NR NR NR NR NR NR
4149	3475	5148	5857	8619	2600	513	428	775	1303	2284	
255100	193000	316500	348500	529900	154700	31570	26340	46110	80120	135900	
	2950 3100 2960 4260 4980 7140 6050 3400 3220 3250 3220 3250 3110 3050 3110 3050 3110 3040 3140	2990 2910 3100 2810 2960 2870 3700 3030 4260 3310 4980 3970 7140 4330 603 3840 3200 3400 3400 3460 3200 3360 3100 3520 3050 4940 3110 5710 3040 3140 4149 3475	2990 2910 6200 3100 2810 6120 2960 2870 9190 3700 3030 5800 4260 3310 5250 4980 3970 4860 7140 4330 4900 6080 3840 4700 4340 3750 4340 3650 3620 4570 3400 3490 4210 3260 3360 4120 3170 3520 4610 3050 4940 4860 3110 5710 5800 3040 10300 3040 3040 10300 3140 4149 3475 5148	2990 2910 6.200 5080 3100 2810 6.120 4710 2960 2870 6.190 3880 3700 3030 5800 3370 4260 3310 5250 3230 4980 3970 4860 4480 7140 4330 4900 4770 6080 3840 4700 4550 4340 3750 4340 5600 3650 3620 4570 9370 3400 3460 4210 8760 3260 3460 4210 8760 3260 3360 4120 7510 310 5710 5280 6820 3050 4940 4860 7780 3110 5710 5280 6820 3040 — 10300 6770 3040 — 10300 6770 3040 — 10300 6770	2990 2910 6200 5680 12400 3100 2810 6120 4710 11800 2960 2870 9190 3880 10000 3700 3030 5800 3370 7910 4260 3310 5250 3230 7030 4980 3970 4860 4480 6550 7140 4330 4900 4770 7110 4360 3840 4400 4550 8080 4340 3750 4340 5600 9440 3400 3460 4210 8760 9230 3220 3360 4120 7510 8620 3170 3520 4410 7500 9230 3050 4940 4660 7780 6170 3110 5710 5280 6820 6130 3040 10300 6570 6490 3040 10300 6570 6490 <t< td=""><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>2990 2910 6200 5080 12400 *2500 *510 388 486 1500 1530 3100 2810 6120 4710 11800 *200 *510 388 700 1430 1860 3700 3030 5800 3370 7910 *2040 *510 418 1080 1400 2310 4280 3310 5250 3230 7030 *1860 *505 4418 1080 1400 2310 4980 3970 4860 4480 6550 1690 *500 442 1140 1310 2770 7140 4330 4900 4770 7010 1260 *495 418 1070 1340 2780 4340 3750 4340 5600 9040 1290 *495 418 1040 1420 3750 3400 3750 4340 5600 9070 1230 *495 418 1040 14</td></t<>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2990 2910 6200 5080 12400 *2500 *510 388 486 1500 1530 3100 2810 6120 4710 11800 *200 *510 388 700 1430 1860 3700 3030 5800 3370 7910 *2040 *510 418 1080 1400 2310 4280 3310 5250 3230 7030 *1860 *505 4418 1080 1400 2310 4980 3970 4860 4480 6550 1690 *500 442 1140 1310 2770 7140 4330 4900 4770 7010 1260 *495 418 1070 1340 2780 4340 3750 4340 5600 9040 1290 *495 418 1040 1420 3750 3400 3750 4340 5600 9070 1230 *495 418 1040 14

Discharge

Division of Water Resources station located on the right bank at Mile 23.0 a.ove mo UL. Stati vir is riked above 0,000 c.*.s. by means of simultaneous measurements of Yuba River and Peather River at Marysville with a, rt, riate time lag oatween Marys-ville and Shanghai Bend. Severe siltin, conditions and shifting control necessitated the astimating of tuch of the record for 1954. Period of record 1944 to date.

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T ELE 7 FLOW OF FEATHER RIVER AT NICOLAUS - 1955

Date					Daily	Mean Flow	in Second	-Feet				
Date	ປັດກ.	Feb.	March	April	Mey	Jur.e	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	8490 11-00 9_0 180 5870	3"40 4600 4130 3650 3350	4810 4150 3800 3550 3510	"230 6510 6190 5240 4720	6830 6660 6620 6690 6990	6280 ∞790 3980 3900 ≁290	521 514 493 521 500	350 395 592 398 398	420 411 417 479 486	1320 1190 954 828 858	1190 1460 1580 1660 1610	3000 3600 3200 2800 2900
6 7 8 9 10	+920 +050 30 3370 3730	3200 2940 2890 2820 2780	3380 3160 3110 5350 4180	+≤90 4030 3670 3790 4250	7710 10000 11800 14200 14700	5020 ~770 ~240 ~040 3910	476 ~9 458 448	380 374 *0* *2* 389	472 468 451 430 404	864 1150 996 1140 989	1500 1230 1180 1480 1480	9000 11000 6700 54-0 5280
11 12 13 14 15	5100 457c 3970 3910 3820	2810 2880 2840 2 90 2790	5900 5900 5920	+, 50 4850 4060 4150 3510	13700 13200 13000 12700 11000	3380 2960 2610 2500 2380	451 440 414 417 404	374 368 348 338 332	392 420 437 521 786	940 1440 1530 1520 1520	1440 1390 1350 1480 1920	4620 3630 3480 3620 3660
16 17 18 19 20	52-0 0560 010 10900 9070	3060 3250 3980 41 50 4220	5590 4890 4400 4390 4250	2930 2840 3730 4470 4130	8820 7470 6860 7040 8260	2470 1980 1690 1410 1190	386 383 374 404 398	330 322 340 365 362	1000 1140 1120 1140 1060	1330 1360 1310 1220 1180	2190 2300 2760 30+0 2950	3600 3780 5480 15000 72200
21 22 23 24 25	7020 5410 4410 3970 3730	3990 3950 3790 3630 3600	3840 3960 3600 3550 3420	5070 8570 10200 8300 7890	9120 9650 9630 9500 9170	1020 850 730 715 646	386 386 392 392 392	355 374 392 368 351	982 968 1140 1120 1040	1260 1270 1260 1190 1070	2650 4790 4170 3290 3010	104000 154000 313000 109000 54400
26 27 28 29 30 31	3570 3400 3280 3330 3220 3260	3530 4970 T340	3770 3970 4340 5830 9260 8950	8160 8380 7200 6900 6770	7490 6400 6260 6300 6670 6480	472 490 493 496 496	398 374 368 392 389 392	338 351 368 380 398 411	996 816 740 740 870	1140 1340 1570 1570 1540 1300	2800 2690 2550 2290 2400	51300 60100 58900 48900 38500 31600
Meen	5383	3646	4085	5580	9062	2475	426	371	729	1231	2194	38570
-Ft	331000	202500	28810C	332100	557200	147300	26210	22840	43370	75670	130600	2372000
ximum	Calet.de	r tear ist	c.f.s. De	. Decem er cemter 23.	23,1 755				Totel Runoff in Acre-Feet		nder Yeer r Yeer	4528890

Discharge of record 25 ,000 c.f.s. December 23, 1955 Station is leintained inthy , Division of Water Resources and U.S. Geological Survey. It is located on left bank at Mile y. e.ove in th. Farlo of record 921 to date. Records for 195, computed by U.S. Geological Survey. Records for December do of include an estimated 50,000 ecre-feet that by-fassed station into Sutter Basin due to levee breaks. Recorder removed at J ne 23, 1955 due to levee repair work. Recorder reinstalled 200 feet downstream from previous location on November 25, 1955.

T.	A	B	L.	Ε	7	21

FLOW OF SOUTH HONCUT CREEK NEAR BANGOR - 1955

Date					Daily M	iean Flow	ln Second-1	Feet				
Dece	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	156 54 30 21 , 15	50 28 23 19 17	48 41 34 29 24	6.0 6.9 6.6 6.2	20 19 13 12 11	4.0 3.9 3.5 3.0 3.0	0.2 0.2 0.2 0.2 0.1				0 0 0 0	7.3 10 5.7 3.5 14
6 7 8 9 10	12 11 9.7 12 24	15 14 13 12 12	21 18 16 18 21	5.8 5.4 5.2 5.0 5.0	11 11 15 12 9.4	2.3 1.7 1.4 1.1 1.0	0.1 0.1 0.1 0.1 0.1				0 0 0 0	868 69 32 53 22
11 12 13 14 15	20 16 14 12 17	11 10 9.7 9.4	18 15 14 14 12	4.8 4.6 5.2	9.7 8.9 8.2 8.2 7.8	1.0 0.9 0.9 1.0 1.1	0.1 0.1 0.1 0.1 0.1	N O	N	N O	0 0.8 2.4 3.9	15 13 10 8.2 7.2
16 17 18 19 20	53 45 160 138 71	9.9 12 12 10 12	12 12 11 10 9.7	5.0 18 26 27 73	7.5 5.2 5.0 4.8	1.0 1.0 0.9 0.8 0.6	0.1 0.1 0.1 0	F L O W	F L O W	F L O ¥	3.4.5.2.7 5.4.5.2.7 5.5	11 94 289 1670 533
21 22 23 24 25	9 M8 0.4 4 4 4 M M	12 12 11 8.9 8.4	9.9 8 8 7.8 7.8	225 105 50 36 33	4.2 4.2 3.3 4. 4.2 3.3 4. 4.2 3.3 4. 4.2 3.3 4. 4.2 3.3 4.4 4.2 3.3 4.4 4.2 3.3 4.4 4.2 3.3 4.4 4.2 3.3 4.4 4.2 3.3 4.4 4.4 5.4 5.4 4.4 5.4 5.4 4.4 5.4 5.4	0.5 0.4 0.3 0.3	0 0 0 0				12 6.8 4.6 8.0 5.0	~7~ 1260 1440 35~ 150
26 27 28 29 30 31	31 20 20 19 21	18 209 (9	7.3 7.8 8.2 6.9	*5 30 27 22 19	4.005 / 01- 4.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3	0.32 0.22 0.22	0 0 0 0 0		_		3.5 2.5 2.5 2.3 2.1	1050 275 138 9ć 80 107
Mean	40.1	3.7	1.7	27.+	8.0	1.2	0.1	Ü	0	e	2.7	295
Ac-Ft	24110	1-6	9	1 40	++92	7+	4	U	Ū	ċ	100	18170
Meximum Dischar	ngo f i	n nar i rdf	1.8. Do .s. D.c.	or , ,	2				Total Runoff in Acro-Peat		ndar Year r Year	25291. 8914

S. Je - i n. J. Pvo. n. j. - 'n' - f Hater N: upper c. persite stati n located a, reximately ... lles southe st of banger i ... le a vet o - - . Hi - t Cree. is a react-side tr'. ter; t. t. e. Fo t.or River at Mile 13.7L. Drainge upen is ... quare ile ... if re rise a late e at alle et a site e ht clies : whisters ... leriod f rec.rd1950 to date. Records for 1975 ... for ... le i ... le i ... le i ... re r. ... le ... le ... le ... le ... leriod f rec.rd1950 to date. Records for 1975 ...

TABLE 75 FLOW OF YUBA RIVER AT ENGLEBRIGHT DAM - 1955

Date					Deily	Mean Flow	in Second-	Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	777 2950 2100 1560 1300	1320 1170 1030 976 943	1080 1020 1010 1010 1000	2210 2120 1870 1680 1560	2440 2410 2460 2710 3020	2700 2220 2100 2340 3040	713 721 714 711 710	690 685 685 685 668	575 561 574 502 375	250 175 170 170 170	220 200 220 244 250	580 505 545 595 600
6 7 8 9 10	1140 1030 954 930 940	923 912 892 892 892	976 962 998 1150 2090	1490 1470 1500 1550 1810	3840 4810 5990 6620 5880	3300 3220 3060 2800 2560	710 711 710 710 710 700	675 670 665 649	340 295 245 221 215	0 142 170 175 175	250 250 250 250 250	620 640 645 650
11 12 13 14 15	900 862 852 842 851	888 880 852 892 902	2010 1840 1800 1700 1540	1910 1770 1750 1710 1570	5490 5450 5450 4660 3800	2220 1900 1720 1620 1930	700 700 704 704 705	648 646 610 635 635	208 185 185 180 158	250 310 250 234 235	234 248 270 320 370	655 630 570 670 680
16 17 18 19 20	1100 1020 1160 1200 1070	922 1110 1300 1140 1200	1420 1340 1280 1220 1190	1520 1930 2340 1970 2060	3240 2960 3060 3460 4140	1430 1270 1170 1110 1030	700 650 700 700 700	630 625 625 620 620	184 190 168 165 160	210 222 160 170 230	425 490 450 380 350	690 690 640 25200 34100
21 22 23 24 25	964 922 920 920 940	1160 1090 1040 976 941	1160 1120 1110 1110 1150	2630 4180 3300 3180 3210	4680 4750 4720 4850 3970	948 909 870 835 810	700 700 700 700 700	620 615 605 600 600	160 160 155 145 145	232 250 222 130 180	510 570 575 570 575	22200 98900 123000 48600 20800
26 27 28 29 30 31	942 956 948 935 945 1000	963 1440 1230	1230 1360 1760 2780 3250 2490	3240 2740 2580 2440 2410	3030 3010 3340 3670 3940 3880	770 758 727 708 708	700 700 700 700 700 690	599 598 590 585 575 575	175 215 295 300 324	383 390 372 311 208 235	578 580 580 585 585	26700 23800 13400 9450 7560 6660
Mean	1095	1031	1457	2190	4056	1693	702	632	259	219	388	15210
Ac-Ft	67300	57270	89570	130300	249400	100700	43170	38830	15390	13450	23070	935400
Maximum Dischar		year 148 d 148,000	,000 c.f.s c.f.s. De	. Decemuar cember 23,	23,1955 1955				otal Runoff n Acre-Feet	Calen. Water	dar Year Year	1763850 873030

U. S. Geological Survey and Division of Water Resources cooperative station located above spillway of Englebright Dam. Combine with flows in Table 77 for total flow of Yuca River mear Smartville. Drainage area is 110 square mulas. Period of record 1941 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 76

FLOW OF YUBA RIVER NEAR MARYSVILLE - 1955

					Daily	Maan Flow	in Sacond-	Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12745	2330 3220 2580 1910 1560	1630 1560 1320 1210 1130	1450 1430 1270 1250 1220	2210 2100 1840 1660 1490	2400 2350 2380 2520 2780	2630 1980 1780 1840 2410	279 276 282 282 282	264 258 264 258 258	231 231 225 222 148	168 168 77 58 54	107 79 70 86 112	540 728 658 636 636
6 7 8 9 10	1360 1170 1040 990 1270	1080 1050 1020 999 990	1180 1120 1150 1270 1940	1360 1290 1290 1280 1510	3440 4410 5540 6410 5890	2880 2790 2590 2460 2200	279 273 267 270 279	255 255 255 252 252	93 81 72 68 65	50 47 46 44	116 116 116 110 99	3330 1400 856 964 828
11 12 13 14 15	1190 1070 1010 990 934	981 950 974 966 982	2180 1920 1890 1820 1700	1700 1600 1500 1510 1340	5470 5380 5360 4760 3890	1930 1610 1370 1250 1420	276 279 276 279 279 279	252 243 222 225 231	64 64 59 60 59	44 46 130 84 88	94 80 101 180 240	734 698 692 680 674
16 17 18 19 20	1900 1670 2450 2400 1850	999 1170 1460 1320 1300	1530 1420 1350 1300 1280	1220 1420 2440 2030 2120	3260 2900 2830 3120 3670	1130 929 740 650 581	279 267 264 294 282	214 220 222 217 217	55 58 59 60 58	73 73 77 62 51	279 431 471 453 359	692 771 1250 24200 42800
21 22 23 24 25	1460 1310 1280 1250 1200	1320 1230 1160 1090 1040	1240 1180 1140 1080 1070	2880 4960 3660 3190 3150	4120 4400 4240 4460 3910	490 422 375 344 338	282 282 282 282 282 276	220 220 208 206 208	55 52 51 49 46	47 50 79 75 71	516 610 610 625 610	26000 113000 137000 52100 22400
26 27 28 29 30 31	1220 1180 1190 1170 1150 1220	1050 2500 1920	1180 1270 1540 2480 3300 2610	3420 2890 2580 2440 2370	2840 2660 2900 3120 3490 3490 3470	310 294 279 264 279	276 273 279 273 270 270 270	208 198 200 200 217 228	46 44 44 49 110	51 234 222 211 144 84	595 595 590 595 605	34000 26900 15200 10700 8570 7940
Mean	1501	1229	1541	2148	3818	1286	277	231	85.9	88.8	322	17340
Ac-Ft	92280	68230	94730	127800	234800	76490	17040	14180	5110	5460	19140	1066000
Maximum Dischar			000 c.f.s. c.f.s. Dec						Total Runoff in Acre-Faet	Galen Water	dar Yaer Yaar	1821260 810210

U. S. Geological Survey and Division of Water Resources accountative station located at Mile 5.2 above buth. Period of record 1954 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 77 FLOW OF DEER CREEK NEAR SMARTVILLE - 1955

Date	Daily Meen Flow in Second-Feet												
Dare	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
12 34 5	533 210 92 67 58	159 82 65 56 52	119 102 88 79 69	28 27 24 21 27	53 8 4 	7.6 5.2 5.2 5.0	4.6 4.9 5.2 5.3	4.7 4.9 4.7 4.7 5.0	5.2 5.3 5.3 4.6	5.0 5.0 5.2 5.0 5.0	6.1 6.6 6.3 4.3	146 58 31 20 50	
6 7 8 9 10	52 49 55 94	14533 44533	58 55 63 72	20 17 14 12 19	25 34 76 43 35	4.7 4.6 4.2 4.0	5.9 4.7 4.7	5.5 5.5 5.4 4.	4.9 5.2 5.2 4.7	4.9 4.7 4.9 4.9 12	6.38 5.5 5.5 5.0	1590 148 107 178 77	
11 12 13 14 15	62 47 42 40 106	42 42 41 39 40	56 50 412 38	23 23 25 19 10	22 23 18 15 14	3.9 4.3 4.9 5.2 5.2	4.5 4.5 4.5 4.5	4.5 4.5 4.6 4.6 4.6	4.9 4.7 4.6 5.8	14 9.4 7.5 7.5 7.2	5.3 5.3 10 29 22	50 42 37 34 31	
16 17 18 19 20	320 142 443 366 170	42 59 49 41 41	35 35 35 36 35	11 87 103 65 90	14 14 11 9.4 7.8	5.2 5.5 5.6 5.3	4.3 3.90 4.0 4.1	4.7 4.6 4.3 4.5 4.7	5.6 5.8 4.9 4.9	6.8 6.3 5.6 5.5	22 64 35 36 35	41 115 392 4440 1790	
21 22 23 24 25	112 96 91 78 72	38 38 36 35 35	31 27 26 24 23	293 290 102 74 65	6.8 6.6 6.3 6.1 6.1	5.0 5.0 4.9 4.9	4.36 4.7 4.6 4.6	4.9 4.9 4.9 4.7 4.9	5.32 5.4.96 4.6	4.6 4.3 4.2 4.2 4.2	90 36 25 35 23	914 4700 5650 1260 656	
26 27 28 29 30 31	72 67 63 56 74	52 575 187	22 20 24 33 37 29	112 77 57 50 54	8.2 6.3 6.6 6.1 6.6 8.2	4.9 4.9 5.0 5.0 4.9	4.5657 4.4.57 4.6 4.6	5.0 9.9 4.5 5.2 5.2 5.2	4.6 4.3 4.5 4.6 5.0	5.6 6.6 6.8 6.6 6.3 6.1	17 17 16 16 14	2940 1600 928 668 530 540	
Mean	124	73.9	47.1	61.3	21.2	5.1	4.6	4.8	5.0	6.2	20.4	960	
Ac-Ft	610	4100	2890	3650	1300	302	282	297	300	383	1210	59030	
Maximum Dischar		Jear 11,7 d 11,300 c.	- c.f.s. I f.s. Marci	Dece iber 23 1 9, 1355 a	, 1955 rid December	23,1955			tal Runoff Acre-Feat	Calend Watar	ar Ysar Year	81354 29587	

J. S. Ge L tel Survey and Div sion of Water Resources cooperative station located one mile upstream from the mouth. Deer Grees ... tributery to the Yula River one file balaw Englepricht Dal. For total flow of Yuba River neer Smartville combine with flows in Table 15. Drainage area is 83.5 square fles. Feriod of record 1935 to date. Records for 1955 computed by U.S. De located Survey.

		78

FLOW OF DRY CREEK AT VIRGINIA RANCH - 1955

Date					Daily 1	iaan Flow	in Second-1	Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 3-45	619 3 104 64	- 35 1152 60	114 97 99 97 76	30 30 27 26 24	74 60 70 62 47	d.6 8.2 7.6 7.4	8.2 8.2 8.0 6.0	00000 0000 0000 0000 0000 0000 0000 0000	6.4 6.6 7.6 7.2	1.5 1.5 1.6 1.8	1.4 1.3 1.3 1.4	23 11 7.2 6.9 47
6 7 8 9 10	33	10 H 75	102	243 18	37 36 90 57 30	7.2 6.6 6.4 6.4	7.6 7.4 7.9 6.9	7.2 7.4 7.6 7.6 7.6	4.8 4.0 3.4 2.0 2.4	1.4 1.2 1.0 1.1 2.0	1.4 1.4 1.3 1.3	2070 277 107 178 89
11 12 13 14 15	64 4-3 3-14	.3 4 1 10 3	73 52 26 10 +3	4.0 4.4 4.2 3.8	34 30 27 25 22	6.6 6.9 7.2 6.6	6.6 6.2 5.6 5.6	7.6 7.6 7.6 7.6 7.6	1.9 1.5 1.8 1.9 1.6	1.3 1.3 1.2 1.2 1.3	1.32.46	540 32 25
16 17 18 19 20	- '3 31 404 3-' 176	3 61 3'	39 34 36 34 32	3. 147 142	20 20 17 15 14	6.10.0.0.0 5.0	5.66	7.4 7.4 7.6 7.6	1.0 2.0 1.5 1.6 1.4	1.3 1.5 1.4	26-14 4	45 264 691 5150 1920
21 22 23 24 25	: 3 115 co 0	34 32 31 30	31 30 30 31 30	<pre>%36 390 164 1 3 100</pre>	13 12 12 11 11 12	5.4 5.4 5.4 5.4	6.9 6.6 7.6 0.6 0.6	7.6 7.6 7.4 7.4 7.2	1.3 1.2 1.3 1.2 1.2	1.4	2000 2000 2000 2000 2000	1430 4320 4270 1110 453
26 27 28 29 3 0 31	1 7!4 6 3	- 30 134	7 0 3 3 3	100 75 72 c	11 .4	5.9	0.9 7.2 7.2 6.0	7.2 6.0 6.0 6.6 6.4	1.2 1.3 1.4 5 1.5	1.8 1.5 1.4 1.4	5.00 5.00 5.00	2200 745 413 259 241 370
Mean	1. 1	i.,	3.4		•.7	۴.۳	r.9	7.	۷.	1.4	3.7	184
Ac-Ft	-/3	4		510	1 30	3 9	4-3	445	161	28	210	54360
Maximum Dischar		1 • •	• •:• Dr • Dane	rem er er 22, 1 5	- ¹ , ^c				otal Runoff n Acre-Feet	Calend Water	lar Year Year	75969 30°60

TABLE 79 FLOW OF DRY CREEK NEAR WHEATLAND - 1955

					Deily 1	teen Flow	in Second-	Feet				
Dete	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 うよう	746 264 119 75 55	68 60 41 35 31	73 54 37 31	5.2 3.46 3.40 4.0	13 17 13 7.3 0.8	1.5 0.3 0.2 0.4 0.3				5.0 7.3 4. 4	0.2 0.1 0 0	4.5 37 22 13 9.3
6 7 8 9 10	44 36 31 49 177	30 27 25 24 22	28 25 23 24 28	3.8 3.2 2.7 2.5 3.2	0.1 0.1 6.3 28 15	0 0 0 0				2-42 6-2 7-6-5	0 0 0	303 104 43 51
11 12 13 14 15	83 56 40 80	20 18 16 15 14	25 19 17 15 12	4.0 2.7 2.4 2.5 2.5 2.5	9.9 7.3 4.8 2.7 2.7	0 0 0 0	N O	N O	0 0 0 0	17 28 16 11 7.8	0 0 0 0.1	31 17 12 9.0 7.6
16 17 18 19 20	457 247 816 502 260	14 16 19 13 11	11 9.9 9.4 5.1 7.8	2.5 20 40 34 34	2.9 3.0 2.6 1.5	0 0 0 0	F L O W	F L O W	13 17 17 18 25	5.0 2.7 1.7 2.1	5.0 12 27 15 12	7.6 12 69 3360 1750
21 22 23 24 25	162 124 101 82 70	11 9.9 9.6 9.4 9.1	7.1 6.4 6.4 6.2	49 129 61 31 2 3	1.6 1.4 1.2 1.1 0.9	0 0 0 0			20 16 20 14 11	3.0 3.0 1.7 .3	15 26 16 11 11	478 2960 4710 1350 319
26 27 28 29 30 31	61 546 430 40 40	9.9 229 132	0,0,0,40 M	24 26 20 15 14	0.5 0.2 0.2 0.2 0.4				7.3 4.4 1.6 4.4	1.3 1.2 0.5 0.3 0.0	3.0.1.5 0.1.5	1910 684 2)48 158 127 215
Mean	161	33.5	18.5	1.5	5.0	0.1	0	Ĺ	6.4	5.3	6.0	616
Ac-Ft	9930	1860	1140	1100	305	3	0	0	378	324	359	37860
Maximum Discher				ecemuer 23, ber 23, 195					Total Runoff in Acre-Feet		dar Yeer Year	53259 18358

U. S. Geological Survey and Division of Water Resources cooperative station located 2300 feet upstream from Highway 99E bridge and 1.3 miles north west of Wheatland. Dry Greek is a north-side tributary to the Bear River at Mile 4.5 above the mouth. Drainage area is 99.5 square miles. Period of record 1940 to date. Records for 1955 cont ted by U. S. Geological Survey.

TABLE 80

FLOW OF BEAR RIVER NEAR WHEATLAND - 1955

					Daily	Mean Flow i	n Second-F	eet				
Dete	Jan.	Feb.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ことうよう	2260 846 430 358 270	415 312 330 250 203	620 602 430 322 242	17 17 14 12 10	442 416 352 366 334	115 99 71 42 78	9.6 9.2 9.6 9.2 9.2	4.1 3.6 3.4	5.8 5.5 5.5 7.5	5.8 5.8 8.5 6.8	9.6 8.9 9.6 11 12	170 218 96 69 69
6 7 8 9 10	222 199 181 192 438	192 171 152 145 139	210 192 188 192 222	6.8 1.4 0 0	302 348 465 402 339	67 35 47 46 27	98888 8888	3.96 3.46 3.4 3.0	767688	7.5 5.8 5.8 7.5 17	11 12 13 15 12	1540 421 221 438 249
11 12 13 14 15	742 698 668 638 668	136 134 131 131 294	390 371 358 340 304	16 11 9.2 14 16	278 232 243 243 218	64 38 42 29 21	8.9 9.2 9.6 8.9 8.9	3.4 4.9 4.9 5.5 8.2	3.4 3.0 2.8 5.2 3.1	76 71 69 65	5.5 4.9 5.5 12 46	174 147 132 120 110
16 17 18 19 20	1490 827 1390 1270 620	400 450 530 518 502	258 242 230 242 218	16 19 20 17 23	198 148 201 190 174	16 19 16 17 15	9.2 9.2 9.6 10 9.6	4.6 7.5 6.4 6.1 5.8	6.4 9.6 10 10 6.4	60 69 124 67 26	36 82 89 73 73	98 160 393 7070 9390
21 22 23 24 25	415 326 294 266 246	480 579 546 557 596	181 161 131 122 120	32 396 592 352 258	154 145 142 142 158	12 12 10 9.6 8.9	9.00 9.00 8.0 5.0 5.0	6.1 6.4 5.8 5.2 5.8	2.8 1.0 1.2 4.0 4.2	20 16 14 19 19	130 102 73 87 71	3170 22000 22100 13000 4290
26 27 28 29 30 31	238 222 214 203 206 230	410 1190 814	91 34 22 21 16 16	344 290 198 174 170	215 96 96 107 80 99	8.5 8.9 9.2 9.6 10	4.9 4.5 3.5 2.1 4.1	5.8 5.4 5.8 5.4 5.8 5.8 5.8	5.2 0.2 2.5 6.1 5.5	20 20 18 17 15 10	60 51 42 37 36	7310 5460 3010 2300 1870 1790
Mean	557	382	229	102	236	33.4	7.9	5.0	5.2	31.0	41.0	3470
Ac-Ft	34250	21240	14060	6040	14530	1990	484	311	310	1900	2440	213400
Maximum Discher	ge of rec	ar yeer 33 ord 33,000	,000 c.f.s. c.f.s. Dec	December ember 22,	22, 1955 1955			To in	tal Runoff Acre-Feet	Calend Water	dar Year Yeer	310955 123215

U. S. Geological Survey and Division of Water Resources cooperative station located on Highway 99E oridge 11.3 miles above the mouth. The Bear River flows into the Peether River above Nicolaus at Mile 12.0L. Drainage are is 295 equare miles. Feriod of record 1928 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 81 FLOW OF COON CREEK AT HIGHWAY 99F - 1955

Date					Daily 1	Mean Flow	in Second-1	'eet				
Date	Jan.	Feb.	Merch	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 245	405 267 151 117 .05	119 59 73 70 69	110 92 73 65 61	18 21 21 19 22	72 69 55 50	2+4 7-2 6-9 6-1 4+2	3.8005	\$3.5 \$3.7 \$3.7 \$4.0 4.2	6.1 3.7 3.5 7.2 (.5	3.3 13 15 12 5.7	6.5 7.2 7.2 7.9 13	61 69 32 22 21
6 7 9 10	€ 1 73 *27 * 50	622198 655	*2 *1 >	31 17 9.2 4.0 4.7	41 37 76 51 41	2.3 1.3 0.0 *1.4 *1.9	2.5 2.0 3.7 2.0	45.4.40.9	c.1 6.9 4.7 3.7 6.1	10 11 7.9 9.2 19	12 13 11 7.6 7.2	*548 140 76 163 83
11 12 13 14 15	*117 * 9 *7' 50 111		50 52 51 51 51	4.7051	34 29 27 25 20	24450	1.9 1.1 1.0 #1.3 #1.3	6.1 4.0 1.9 4.2	4.0 4.5 3.7 9.2 20	63 42 35 30 29	7.6 5.1 11 55 54	55 40 336 25
16 17 18 19 20	773 344 462 70 350	9.2 5.2 4 5 1 4 5 1	51 47 47 58	5.4 22 117 30 68	17 12 18 24 23	3.3 7.2 5.8 5.8 4.5	*1.3 *1.3 1.6 *1.d 1.9	2.3	18 17 24 23 14	26 22 22 22 23	105 58 34 29	33 38 89 #2^70 #1510
21 22 23 24 25	234 180 151 #135 #124	19 17 10 18 3	140 2148 2012 013 33	135 267 124 33 73	23 19 18 17 18	2.5 2.8 4.7	2.2 \$3.0 \$3.0 \$3.0 \$3.0 \$3.0	4.50 5.10 1.5	12 10 11 0.7 d.3	22 22 18 ¢15 ¢12	55 36 26 3.	<pre>\$520 2550 1,070 \$1190 \$396</pre>
26 27 28 29 30 31	*112 *** ** **	52 120 100	28 27 25 23 25 21	96 72 55 60	15 11 7.2 5.8 5.8	3.7 2.2 1.0 1.4 3.	\$3.0 \$3.0 \$3.0 3.7 3.0 \$3.5	2.8 6.5 6.5 6.1 6.1	5.5 12 12 12 12 13	*11 *10 12 12 11 11 8.3	19 25 33 28 24	*1640 *665 346 279 242 360
Mean	214	77.1	51.1	50.5	29.9	3.9	2.5	6	10.0	18.8	26.5	>87
Ac-Ft	13130	44	3140	3005	1639	235	152	281	596	1155	1579	36090
Maximum Dischar		r year #518	0 c.f.s. I	December 23	, 1955				tal Runoff Acre-Feet	Celen Water	dar Year Yeer	05484 41098

In Acre-Peet | Mater Year 1098 Division of Water Resources station located at the Highway 59E bridge. Coon Creek is an east-side tributary to the Sacramento R'ver at Mile 19.6L, via "Natomas Cross Canal", to the main drein between Reclamation Districts 1000 and 1001. Drainage area is 82.5 squarem lies. Fariod of record 1947 to date.

TABLE 82

FLOW OF AUBURN RAVINE AT LINCOLN - 1955

Data					Daily 1	Mean Flow 1	n Second-F	'eet				
Data	Jen.	Fab.	March	Apr11	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 3-145	8796 8121 876 847	93 75 70 70 70	10 10 10 10 10 10	\$12 \$11 \$9.6 \$0.8 \$7.8	*38 *34 *30 *26 *24	1458 10 1458 10	62 61 61 64 63	61 56 54 56	43 43 143 144	5.40 5.60 5.00	5.6 5.0 6.8	44 37 27 22 24
6 7 8 9 10	¢03 ≉034 520 €0 €0	61 53 58 44 843	38 37 30 45	#14 #c.c #r.0 #1.6	*22 *27 *1:0 *32 *27	* 12 * 39 * 35 * 32 34	62 63 61 63 5	54 55 57 53 53	44 43 443 43 43	2.4 4.8 4.2 4.4 11	6.4 6.2 5.8 5.0	#234 #66 55 67 51
11 12 13 14 15	64 55 55 53 75	*'.3 40 38 31 32	44 41 35 44 43	41.4 42.6 43.2 43.7	<pre>#22 #17 #17 #16 #15</pre>	36 3 38 37 36	64 63 66 56 48	55 55 63 61	42 40 32 37 32	19 8.0 5.4 4.6	6.0 6.2 24 23	38 36 36 35 36
16 17 18 19 20	271 132 277 372 189	344 322 27	*35 *36 34 31	#4.8 #22 #51 #32 #37	*15 23 22 21 24	456	4: 50 540 40	61 #5 #60 70 63	26 24 26 #25 #21	4.86 40	25 46 24 21	48 66 \$771 480
21 22 23 24 25	128 92 7	2512243	205555 25555 225555 2255 2255 2255 2255	€^]; 65 30 \$22 \$24	30 30 30 30 30	56 512 52 514	40 50 51 55	61 60 62 64	*17 *13 *10 7.8 •.6	5.4080	34 23 24 24 24	*17c *956 *1560 *420 *138
26 27 28 29 30 31	75 74 73 72 74	25 155 72	422 420 013 417 415 415	32 *23 * 1 *20 *32	47 453 453 453 453 453	5570 570 632	65 64 63 62 60 60	58 57 57 45		5.08 6.0 5.4 5.4 5.4 5.4	15 18 20 20 20	8006 9.28 9121 118 104 164
Mean	110		33.3	14.6	6× •*	47.3	58.0	57.7	.7.6	6.0	15.6	220
Ac-Ft	6774	. 94	e 045	1105	1841	2815	35 8	3-48	1640	367	587	13560
Maximum Dischar			statten is	and ad Park		1 Care			Totel Runoff in Acre-Feet	Water	ler Year Year	41002 33°07

Division s: Water Resources station located 500 feet downstream from the Lincoln-Newssette Rosel. Aucurn Ravine is an east-side tritutary to the Sarrawate River at Mile 19.6L via "Net mas Gross Garal", the main drain between Reclamation Districts 1000 end 1011. Dra mage area is 3..0 equeremiles. Period of record 'Surrawate'.

TABLE 83 FLOW OF NATOMAS CROSS CANAL AT HEAD - 1955

Dete					Deily :	iean Flow i	In Second-H	Peet				
Date	Jan.	Feb.	March	April	Мву	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	531 735 504 *328 246	185 230 200 169 151	320 203 156 127 111	30 24 25 26 27	54 68 64 51 45	9.1 8.4 6.7 6.9 4.0	*1.0 *1.0 *1.0 *1.0 *1.0	*1.0 *1.0 *1.0 *1.0 *1.0	3.8 3.0 2.9 2.9 2.9	10 11 7.4 11 14	9.3 8.3 7.0 6.1 7.1	45 58 100 81 59
6 7 8 9 10	204 171 154 154 408	142 128 127 115 105	99 97 100 99 109	26 38 32 22 16	41 *35 44 69 76	3.4 4.4 *1.5 *1.5	*1.0 *1.0 *1.0 *1.0 *1.0	*1.0 *1.0 *1.0 *1.0 *1.0	2.9	15 14 12 12 9.9	6.8 11 11 12 10	64 429 352 257 266
11 12 13 14 15	578 356 260 214 194	97 94 91 85 81	104 97 91 89 90	9.9 7.8 11 10 6.2	51 30 19 18 18	*1.5 *1.5 *1.5 *1.5 *1.5	*1.0 *1.0 *1.0 *1.0 *1.0	*1.0 *1.0 *1.0 *1.0 *1.0	2.8 2.2 3.2 6.2	9.8 21 34 30 26	8.4 7.0 7.8 9.0 21	185 *141 *12 *89 78
16 17 18 19 20	496 898 857 1100 1030	78 *84 *90 80 73	85 77 80 77 69	5.0 4.8 19 100 102	13 13 12 9.5 8.8	*1.5 *1.5 *1.5 *1.5 *1.5	*1.0 *1.0 *1.0 *1.0 *1.0	*1.0 *1.0 *1.0 *1.0 *1.0	19 40 56 50 61	24 22 19 17 17	61 68 91 96 67	72 82 100 *500 *4000
21 22 23 24 25	752 574 438 351 294	72 69 66 65 63	64 59 56 56 52	81 160 258 138 85	8.8 9.1 7.2 6.0	*1.5 *1.5 *1.5 *1.5 *1.5	*1.0 *1.0 *1.0 *1.0 *1.0	*1.0 *1.0 *1.0 *1.0 *1.0	58 46 35 29 28	18 18 16 15 14	52 63 70 60 51	*1300 *3400 *6400 *3000 *1200
26 27 28 29 30 31	256 229 205 188 184 176	65 130 553	46 42 39 35 34 33	75 83 64 48 44	5.2 5.1 6.6 4.7 4.0 6.2	*1.5 *1.5 *1.5 *1.5 *1.5	*1.0 *1.0 *1.0 *1.0 *1.0 *1.0	3.0 3.2 3.0 4.1 3.2 3.7	29 19 15 16 12	13 10 8.8 9.1 11 10	51 47 399 46 49	*3200 *1650 *820 *660 *600 *500
Meen	421	125	90.2	52.6	26.2	2.7	1.0	1.5	18.8	15.5	35.1	961
Ac-Ft	25910	6918	5546	3129	1611	159	бі	90	1118	950	2088	59110
Maximum Dischar								1	otel Runoff n Acre-Feet	Water	der Yeer Yeer	106690 77538

Division of Wator Resources Station located approximately three and one-half miles northeast of Verone on El Centro Road. Station was moved to this new location on June 30, 1951. Natomas Gross Canal is an east-side tributary to the Sacramento River at Mile 19.01. Period of record 1949 to date. * Estimated

TABLE 84

Flow of reclamation district 1001 drain into natomas cross ${\tt canal}^{({\tt a}\,)}$ - 1955

					Deily 1	lean Flow	in Second-	Feet				
Date	Jan.	Feb.	March	April	Меу	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	0 22 38 0	0 0 32 0	0 26 0 0	0 0 0 0	36 32 26 26 19							
6 7 8 9 10	0 0 26 29	00000	0 26 0 0	00000	0 0 26 16 16							
11 12 13 14 15	22 0 29 0 0	000000	0 26 0	0 0 0 0	16 0 29 19	N O	N O	N O	N O	N O	N O	N O
16 17 18 19 20	32 60 55 147 98	29 0 0 26	000000000000000000000000000000000000000	000000	0 19 0 46 32	F L O W	F L O W	F L W	F L O W	F L O W	F L O W	R E C O
21 22 23 24 25	76 27 25 0 26	0 0 0 0	0 0 0 0	0 52 0 41 25	36 29 32 26 23							R D
26 27 28 29 30 31	0 19 29 0 0 29	32 0 0	0 0 0 0 0	19 25 0 0	23 0 0 0 0							
Meen	25.4	4.2	2.5	5.4	17.0	0	0	0	0	0	0	
Ac-Ft	1565	236	155	321	1045	0	0	0	0	0	0	
Maximum Dischar	nge								Total Runoff in Acre-Feet	Cale: Wate:	nder Yeer r Yeer 536	1

This is drainage return to the Sacramento River via the cross caled by pumping and gravity. Period of records 940 to date.
Records for 1954 computed by Division of Weter Resourd s.
(e) Natomas Cross Canel is the main drain between Reclamation Districts 1000 and 1001 and joins the Sacramento River at Mile 19.6L.

TABLE 85 FLOW OF RECLAMATION DISTRICT 1000 DRAIN (PRITCHARD LAKE) - 1955

					Deily	Mean Flow	in Second-	Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 3-45	U 0 0		0 0 11 0 0				000000		10 10 10 10 10	10 10 10 5.0 0		0 0 0 0
6 7 8 9 10	0 0 0 0		000000000000000000000000000000000000000				0 0 0 0		10 10 10 14 18	0 0 0 0		0 0 0 0
11 12 13 14 15	0 0 0	N O	0 0 0 0	N O	N O	N О	0 0 0 0	N O	22 26 30 34 39	000000000000000000000000000000000000000	N O	0 0 0 0
16 17 18 19 20	0 5.0 62 45	F L O W	0 0 0 0	F L O W	F L O W	F L O W	0 0 0 0	F L W	38 37 37 36 38	000000	P L O W	0 0 149 164
21 22 23 24 25	30 0 0 0 0		0 0 0 0				0 0 0 0		140 42 36 30 24	0 0 0 0		156 141 126 140 140
26 27 28 29 30 31	000000	=	0 0 0 0 0	_			0 6.0 6.0 0 0		18 17 15 14 12		_	140 140 140 134 134 70
Mean	4.6	Ų	v.4	0	0	0	0.4	0	23.2	1.1	0	57.2
Ac-Ft	252	0	22	U	0	0	24	0	1380	69	0	3520
Maximum Dischar									Total Runoff in Acre-Feet		dar Year Year	5297

This is drainings from Reclamation District 1000 returned to the Sacramento River by pumping and gravity at Mile 16.0L. Additional water was returned to the Sacramento River at Mile 6.85L (see Table 86) and at Mile 2.1L (see Table 88). Records for 1955 comfuted by Division of Water Resources.

TABLE 86

FLOW OF RECLAMATION DISTRICT 1000 DRAIN (#3 PLANT) - 1955

					Deily	Meen Flow	in Second-	Feet				
Date	Jen.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
コックトリッ												
6 7 9 10												
11 12 13 14 15				Record	is sufficie	ent to comp	oute only r	nonthly f	lows.			
16 17 18 19 20												
21 22 23 24 25												
26 27 28 29 30 31		=		_		_			_			
Meen	0.	4 7.0	6.7	9.4	27.1	30.1	33.4	50.7	47.8	18.2	11.9	29.7
Ac-Ft	28	388	414	560	1665	1789	2057	3116	2844	1118	709	1629
Meximum Discher									Totel Runoff in Acre-Feet	Caler. Water	dar Year Year	16517 15128

This 's dealance for Recis.st' a District 10 matura to Secramonto River by pumping and gravity at Mile 6.85L. Daily distrinting flows are not available since the plant operates automatically on float switch. Additional water was returned to for a sto Wyer for a same district at 3110 2.1L (see Table 88) and Mile 1.0L. Period of record 1910 to date. Records for 1956 computed by Division of Water Res roos.

TABLE 87

FLOW OVER SACRAMENTO WEIR FROM SACRAMENTO RIVER TO YOLO BY-PASS - 1955

Date					Daily	Meen Flow	in Second-	Feet				
2000	Jan.	Feb.	Merch	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345												0 0 0 0
6 7 8 9 10												0 0 0 0
11 12 13 14 15	N O	N O	N O	N O	N O	N O	N O	N O	N O	N O	N O	000000
16 17 18 19 20	F L O W	F L O W	F L W	F L O W	F L O W	F L O W	F L O W	F L O W	FL O¥	F L O W	F L W	000000000000000000000000000000000000000
21 22 23 24 25												0 0 19600 48800 43500
26 27 28 29 30 31						_			_		_	45700 45200 36400 27200 19400 11400
Mean										-		9587
Ac-Ft												589500
Meximum Discher	ge Calenda of reco	rd \$118,00	0 c.f.s. M	December March 26, 1	928			1	otel Runoff n Acre-Feet	Calen Weter		0

Station is located on Sacramento River at Mile 4.2R above Sacramento. Elevation of fixed crest is 25.0 U.S.E.D. datum. Moveble crest (top of needles) 31.0 U.S.E.D. datum. Weir has 48 gates, each 38 feet in height. Period of record 1926 to date. Records for 1955 computed by Division of Water Resources. * Estimated

TABLE 88

FLOW OF RECLAMATION DISTRICT 1000 DRAIN (2ND BANNON SLOUGH) - 1955

					Daily M	iean Flow i	n Second-	Feet				
Dete	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	N50-40	65 67 642 52	0 0 60 67		0 66 0 0	70 70 70 70 14			3538 338 48 3	64 0 0 0		0 0 0 0
6 7 8 9 10	0 66 0 66	00000	0 66 0 0	000000	0 0 0 138	000000		0 0 0 0	63 0 40 31 30	0 0 0 0		0 0 0 0
11 12 13 14 15	66 0 56 116	000000	0 68 0 0	0 0 0 0	0 05 28 0	0 0 0 0	N O	0 0 0 0	28 35 35 54 253	0 0 0 0	N O	00000
16 17 18 19 20	91 67 325 245 164	29 65 0 0		000000000000000000000000000000000000000	0 0 54 28 21	000000000000000000000000000000000000000	F L O W		166 187 202 252 243	0 0 0 0	F L O W	0 0 597 656
21 22 23 24 25	161 52 56 66 68	0 112 88 57	0 0 0 0	42 70 66 0 63	214 32 0 0	0 0 0 0		0 0 23 0	164 225 164 170 162	0 0 0 0		532 560 583 593 593
26 27 28 29 30 31	68 68 65 63 56 61	0 46 62		66 0 66 66	0 39 0 51 39 70	0 0 0 0		0 21 0 21 21 0	62 41 65 64 0		_	594 599 601 483 292 199
Meen	72.9	25.2	8.4	14.6	19.8	9.8	0	2.1	\$7.7	2,1	0	222
c-Ft	4485	1402	518	871	1220	583	0	129	-814	127	0	13670
aximum ischarg	ze								otal Runoff n Acre-Feet	Calen Water	dar Yeer Yeer	23819 26913

In Acre-Feet Water Year 20913 This is drainage from Reclamation District 1000 returned to the Secremento River by pumping at Mile 2.1L. Additional water was returned to the Secremento River at Mile 6.85L (see Table 86) and Mile 16.0L. Feriod of record 1925 to date. Records for 1955 computed by Division of Water Resources.

TABLE 89 FLOW OF LINDA CREEK NEAR ROSEVILLE - 1955

					Deily 1	Mean Flow 1	n Second-F	eet				
Dete .	Jan.	Feb.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	3%2 23 120 101 05	127 1 8 64 58 87	116 108 90 79 60	32 33 33 30 30 30 30 30 30 30 30 30 30 30	62 67 60 55 56	*20 *19 20 10	10 10 17 20 21	7.5 8.0 9.9 9.9	20 18 17 18 16	244 23 26 25	26 28 28 28 25	5225 725 75
6 7 8 9 10	90 34 1 107 206	3 36 00 88	14 70 77 67 60	32 \$32 \$314 \$35 \$35	52 53 74 60 50	21 21 22 22 22	20 20 20 20 21	10 11 11 12 13	16 15 16 16 17	25 25 25 25 25 25	27 26 27 26 22	246 236 123 185 118
11 12 13 14 15	110 °1 °6 1 132	1704553	61 56 55 54 53	*36 37 *38 *30 430	N 7 1 N 1	22 20 18 18 20	20 20 19 17 16	13 14 13 12 13	17 18 19 24 39	60 52 43 40 35	26 28 35 51	75 €1 526 ₽46
16 17 18 19 20	525 241 530 566 352	1 100 79 62 60	47 45 44 44	40 56 125 100 79	+0 35 20 20 20 *26	20 20 19 18 18	15 14 15 +4 +14	12 13 13 14 13	37 37 38 39 36	30 30 31 32 33	39 87 5-4 4	+52 +66 +11↓ +2000 +1100
21 22 23 24 25	226 177 147 133 123	62 60 62 61	40 38 32 34	120 165 80 45 66	#25 #24 #22 #22 #22 #22	18 18 13 17	\$13 \$13 \$13 \$13 \$13 \$12	18 14 14 14 14	50 0.40 5 0.40	31 32 32 29 27	548 8433 8433 40	⇔363 ⇔1820 ⇔2900 ∞850 ∞280
26 27 28 29 30 31	113 107 106 96 98	71 373 173	37 37 44 43 42	705 554 554 6	<pre>\$21 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20 \$20</pre>	16 16 16 16	<pre>>12 >11 >11 10 9.9 5.5</pre>	15 18 19 22 22 21	32 30 33 33 30	30 20 20 20 20 20 20 20 20 20 20 20 20 20	34 32 31 31 31	*1170 *560 *120 *350 *280 *375
Mean	193	03.0	-6.1	57.9	30.5	19.0	15.5	13.6	26.6	31.4	36.9	456
Ac-Ft	11230	5216	3447	3443	2428	1129	955	338	1581	1928	2196	28030
Maximum Discher:									otal Runoff n Acre-Pest	Calen Water	dar Year Year	62421 44415

Division of Water Resources station located near Southern Pacific Railroad bridge O.6 mila downstream from Auburn Boulerard (Old Highway 95E). Linda Creak is an east-side tributary to the Sacramento River at Milal.3L via the Back Borrow Fit of Reclamation District 1000. Pariod of record 1945 to date.

TABLE 90

FLOW OF NORTH FORK AMERICAN RIVER AT NORTH FORK DAM - 1955

Date					Daily	Mean Flow	in Second-	Feet				
Dare	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	1890 1380 805 582 489	634 539 448 392 368	489 464 448 440 432	925 865 735 670 616	1080 1060 1070 1220 1430	1090 985 1050 1110 1330	200 188 182 182 182 170	67 63 60 60 60	37 37 34 34 34 34	37 37 37 37 37 37	34 34 46 37	218 315 200 159 148
6 7 8 9	432 376 336 330 338	346 330 323 323 315	416 424 464 539 855	599 652 725 845 985	1870 2110 2180 2330 2240	1360 1320 1270 1180 1060	159 154 148 143 143	56 56 53 50 46	4 Q 4 4 4 M M M M M M M	37 37 37 37 40	37 34 34 34 34 34	1500 1080 531 643 652
11 12 13 14 15	300 279 272 258 286	315 308 308 315 323	745 706 679 634 582	915 815 835 755 715	2200 2270 2200 1800 1390	915 795 725 661 582	138 133 123 118 113	466 443 433 43	344 342 370 40	40 40 37 37	34 34 46 83 75	448 384 346 308 279
16 17 18 19 20	415 408 464 522 489	346 690 830 591 498	539 514 489 473 464	765 1060 1100 915 885	1190 1150 1420 1720 1940	51+ 464 432 408 376	113 113 108 104 99	14444 1444 1440 1440 1440	0 MMMM 1 4 4 4 4 4 4 4 4 4	37 37 37 37 37 37	67 108 91 87 118	286 477 880 7880 9310
21 22 23 24 25	424 334 376 376 376	448 408 384 361 346	440 424 4232 489	1100 1780 1390 1410 1400	2110 1980 1910 1820 1490	353 338 323 300 279	95 91 87 83 79	40 43 40 37	40 40 40 40	37 40 40 37 37	521 315 182 154 118	5940 3×600 41600 14700 6550
26 27 28 29 30 31	376 376 368 368 376 416	353 548 539	550 634 998 1310 1210 955	1340 1200 1220 1140 1110	1360 1360 1390 1550 1640 1420	265 258 230 224 212	75 79 75 71 71 67	37 37 37 37 37 37	37 37 31 37 37	37 37 40 40 37	108 99 99 108 108	9880 7920 4740 3340 2540 2170
Mean	480	42	· 02	982	1674	680	119	46.2	37.3	37.9	97.3	51, 2
Ac-Ft	2951	- 361	371 50	58450	102906	40480	7350	2840	2220	2330	5790	317400
Maximum Dischar			1 c.f.s. .f.a. Dec						otal Runoff n Acra-Fest	Calen Water	dar Year Year	629960 3×1500

U. S. Ge lopical survey and Divisi n of water Resturces cooperative station located on left bank 50 feet upstream from spiilway of North Firk Dam, and ap r Nimetely f ur files northeast of Auburn. Drainage area is 343 square miles. Fariod of record 1941 to date. Records f r 1/55 c muted by L. S. Ge ly ical Survey.

TABLE 91 FLOW OF MIDDLE FORK AMERICAN RIVER NEAR AUBURN - 1955

Date					Daily	Mean Flow	in Second-	Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	2520 1990 1120 822 691	747 652 561 516 501	688 663 646 635 621	1720 1640 1380 1230 1120	1640 1630 1680 2000 2450	2060 1780 1980 2100 2730	442 416 403 390 369	115 110 104 101 100	68 66 64 62 61	55 55 55 54 54	66 64 65 65	247 390 300 242 213
6 7 9 10	610 543 489 474 486	474 455 446 449 458	600 604 663 796 1250	1070 1130 1260 1540 1860	3420 4080 4440 4520 4400	2910 2890 2880 2680 2530	345 324 309 297 294	98 97 95 93 88	59 58 57 57 58	55 55 54 54 55	62 60 60 60 59	1920 1600 760 936 948
11 12 13 14 15	452 416 406 398 416	463 477 480 486 525	1100 1080 1030 966 902	1790 1540 1600 1500 1420	4370 4500 4640 3600 2560	2170 1840 1620 1410 1250	288 273 270 258 250	86 85 84 83 82	58 58 57 60 65	58 62 61 59	57 56 65 104 108	620 515 484 438 403
16 17 18 19 20	576 522 585 632 585	558 1110 1620 1070 878	818 775 740 736 750	1540 1930 1790 1430 1340	2100 1990 2520 3220 4110	1080 960 920 892 880	239 231 223 213 197	84 97 84 78 77	72 73 74 73 71	56 55 55 55 56	93 151 132 136 170	403 634 1210 8270 11000
21 22 23 24 25	519 480 469 474 483	758 688 638 600 576	726 691 691 722 830	1580 2190 1970 2180 2310	4430 4390 4150 3970 2940	832 788 760 680 606	182 172 165 160 151	75 74 74 72 73	70 67 66 63 59	66 69 68 71 67	634 532 288 228 179	7420 51000 67400 26200 11300
26 27 28 29 30 31	489 498 498 495 516 549	591 818 691	1010 1170 2010 2610 2330 1800	2140 1800 1840 1760 1660	2620 2520 2690 3090 3530 2980	571 560 532 508 464	142 138 134 128 122 118	73 72 72 73 71 69	58 56 55 55 55	64 71 78 79 73 67	156 145 145 165 179	15500 12300 7140 5330 3800 3650
Mean	652	653	989	1642	3264	1462	247	85.1	62.5	61.2	145	7825
Ac-Ft	40070	36270	60800	97710	200700	87000	15160	5230	3720	3760	8630	481100
Maximum Dischar			OUO c.f.s. c.f.s. Dec						otsl Runoff Acre-Feet	Celenc Water	lar Yeer Year	1040150 599290

U. S. Geological Survey and Diversion of Water Resources cooperative station located on left bank 1.9 miles upstream from mouth and approximately 3.5 miles northeast of Auburn. Drainage area is 619 square miles. Feriod of record 1911 to date. Records for 1955 computed by U. S. Geological Survey.

	Daily Mean Flow in Second-Fe						-Feet					
Dete	Jan.	Feb.	March	April	Мву	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ካተ ካ ካ	2680 1820 966 661 574	806 610 475 428 442	585 597 585 539 506	1110 1140 974 902 776	1330 1320 1260 1360 1610	1910 1650 1860 1920 2350	362 348 334 334 306	175 179 177 177 165	155 146 143 152 152	179 177 173 165 171	153 150 148 150 148	228 355 260 232 184
6 7 8 9 10	506 389 381 366 410	419 378 359 355 355	491 470 517 616 902	748 798 894 1070 1340	2120 2520 2780 2800 2960	2450 2450 2450 2450 2260	300 284 232 254 263	163 161 161 161 155	143 141 139 141 148	173 173 173 173 173 173	146 148 148 146 111	1530 1230 604 674 680
11 12 13 14 15	378 334 340 330 355	355 366 359 370 389	830 870 769 727 727	1230 1080 1160 1120 1080	3060 3190 3200 2630 1970	1820 1540 1400 1610 1270	260 246 234 240 231	153 150 137 150 144	148 148 144 150 152	179 182 159 139 146	136 128 134 159 173	437 381 348 310 294
16 17 18 19 20	700 539 720 790 661	428 931 1320 878 741	610 591 585 579 562	1190 1530 1590 1270 1150	1610 1520 1980 2560 3070	1060 910 846 838 814	234 221 208 208 203	153 146 144 144 152	152 146 157 161 165	136 134 136 134 150	165 210 213 205 218	310 393 787 3730 5110
21 22 23 24 25	556 501 470 456 442	648 562 522 491 475	545 528 539 550 622	1300 2090 1550 1610 1620	3410 3530 3500 3360 2430	790 707 674 622 533	205 208 200 193 184	159 152 153 153 153	167 157 169 175 184	153 146 146 148 148	410 412 263 229 203	3240 33300 62400 23200 8440
26 27 28 29 30 31	419 402 381 381 398 451	480 967 713	734 854 1210 1630 1490 1150	1600 1420 1460 1420 1420	2350 2120 2350 2810 3140 2780	491 470 451 423 402	177 182 188 200 184 193	148 155 155 153 155 159	182 179 182 177 175	105 143 155 157 155 153	179 198 171 179 188	10500 8600 4880 3630 2980 2700
Meen	605	558	726	1255	2472	1317	239	156	158	156	187	5869
Ac-Ft	37200	30990	4465c	74660	152000	78390	14710	9600	9380	9590	11150	360900
Maximum Discher		ar year 71 ord 71,800	,800 c.f.s. c.f.s. Dec	December cember 23,	23, 1955 1955				Totsl Runoff in Acre-Feet		ndar Year r Year	833220 501610

TABLE 92 FLOW OF SOUTH FORK AMERICAN RIVER NEAR LOTUS - 1955

ischerge of record 71,600 c.f.s. December 23, 1955 U. S. Geological Survey station located on left tsuk 0.4 miles downstream from Greenwood Creek end ap,r.ximately 2.4 miles nortiwest of Lotus. Drainage area is 678 square miles. Feriod of record 1951 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 93 FLOW OF WEBER CREEK NEAR SALMON FALLS - 1955

Date		Delly Mean Flow in Second-Feet													
Dara	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.			
12345	913 434 177 111 85	156 119 92 79 72	168 129 107 93 81	28 27 26 24 22	135 143 114 98 83	9.6 9.2 7.9 7.2 6.8	2.9 2.7 22.5 2.7 3.1	0.3 0.2 0.2 0.2 0.2	0 0 0 0	0.5568	1.7 1.8 2.6 3.4 3.5	18 25 15 13 12			
6 7 8 9 10	69 58 52 50 70	67 61 56 55 52	71 65 61 60 74	19 19 20 18 17	72 73 101 77 62	6.4 6.5 5.2 3.6	3.2 2.5 2.2 2.0 1.9	0.2 0.1 0.1 0.1 0	0 0 0 0 0	0.6 0.5 0.4 0.4 0.4	3.5 3.6 4.2 4.0 3.6	156 67 35 47 40			
11 12 13 14 15	53 47 44 42 55	49 47 44 43 42	63 57 53 50 46	17 17 16 14 13	53 41 41 36 34	4.7 4.8 5.2 5.0	1.9 1.6 1.4 1.2 1.0	0 0 0 0	0 0 0 0	0.4 0.6 0.7 0.8 0.8	4.0 4.1 6.4 21 14	28 22 19 17 16			
16 17 18 19 20	419 168 415 596 334	46 74 C4 53 49	41 40 40 38	13 79 208 168 110	32 30 28 26 25	5.00 5.4 3.4 3.4	0.9 1.1 1.0 0.9 0.9	0 0 0 0	0 0 0,4	0.8 0.8 0.8 0.8 0.9	9.4 23 18 13 12	18 22 45 883 686			
21 22 23 24 25	211 171 142 122 109	45 43 41 40 39	37 36 35 32 32	240 457 190 134 123	23 25 22 21 20	3.152235	0.9 1.0 0.8 0.5 0.5	0 0 0 0	1.1 1.1 1.2 1.1 0.9	0.9 1.0 1.1 1.4 1.3	22 17 12 14 12	309 5540 7160 2760 809			
26 27 28 29 30 31	95 85 75 75 77 82	42 755 276	31 29 32 31 33 30	172 134 118 107 132	16 13 12 12 9.9 9.9	2.6 2.9 3.1 2.9 2.9	0.7 0.9 0.8 0.6 0.6 0.4	0 0 0 0 0	1.1 1.1 0.9 0.8 0.7	1.3 1.4 1.5 1.5 1.5	11 9.9 9.4 8.4 8.2	2250 1030 500 340 263 267			
Mean	175	92.9	56.2	89.4	48.2	4.7	1.5	0.1	0.4	0.9	9.4	755			
c-Ft	10780	5160	3460	5320	2960	278	90	3	21	54	557	46440			
aximum lscher	Calender ge of recor	year 11,8 d 11,800 c	00 c.f.s. .f.s. Dece	December 2 nuer 23, 19	3,1955 955				tel Runoff Acre-Feet	Calend Water	ar Year Year	75123 36030			

U. S. Geological Survey end Division of Weter Resources cooperative station located on left bank one mile upstream from mouth, 3.9 miles east of Salmon Fells. Dreinage eres is 100 square miles. Period of record 1943 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE	94
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INFLOW TO FOLSOM RESERVOIR - 1955

Feb.	Merch 2130 1990 2520 1910 2520 1930 1816 1700 1050 228 3450 3200 2970 2750 2750 2750 2320 2320 260	Apr11 3050 3700 2860 2670 2610 2210 3020 3300 3540 4410 3760 3540 4410 3760 3540 3550 3540 3550 3500 35500 35500 35500 35500 35500 35500 35500 35500 35500 35	Mey 1660 5100 111 100 100 100 10010 10010 10010 10020 10250 10220 92500 7130	June 5250 1,620 54,00 5270 6620 7570 6890 - 980 5420 5420 3940 3940 3940 2210	July 918 190 827 1200 810 503 799 1000 629 530 650 780 780 780 780 780 780 780 78	Aug. 660 453 343 347 501 535 431 620 465 210 400 417 164 472 228	Sept. 413 644 455 458 339 172 191 232 257 295 398	0ct. 547 607 484 535 400 672 438 438 672 613 672 505 431 372	Nov. 394 516 688 557 630 635 633 637 637 513 706 768 721	0ec. 1060 1580 1180 946 5000 2580 2580 2580 2580 2580 2590 2890 1650 1430 1710 1380
	1990 2920 1930 1930 1930 1930 1930 1930 1930 2930 2930 2970 2750 2720 2320 2 60	3700 326. 2860 2670 2610 3020 3330 3510 3760 3400 3400 3600 3090	5100 4700 5970 7560 9120 9120 9120 9120 0550 1020 10170 10550 10220 9250 7130 5230	L620 5400 5270 6620 7570 6210 7270 6890 5980 5420 4390 4050 3210	1190 827 1200 810 503 799 1000 829 530 650 780 780 780 780 780 780 780	453 343 347 501 535 431 620 465 210 400 417 417 472 228	64,4 439 555 498 172 317 312 191 232 257 295 367	607 484 535 400 672 438 672 613 672 613 672 505 431	516 688 557 639 635 633 637 591 513 706 768	1580 1180 978 946 5000 2580 2650 2890 1990 1650 1430 1710
	1700 1050 228 3450 3000 2970 2750 2750 2720 2320 2 60	2210 3020 3390 3540 4410 3760 3400 3660 3090 3360	9120 9850 10640 10170 10010 10550 10220 9250 7130 5230	6210 7270 6890 5980 5420 4380 3940 4050 3210	799 1000 829 530 650 780 780 766 929 425	620 465 210 400 417 164 472 228	172 317 342 191 232 257 295 367	672 489 438 672 613 672 505 481	630 635 633 637 591 513 706 768	5190 2580 2650 2890 1990 1650 1430 1710
	3090 2970 2750 2720 2320 2 60	3760 3400 3660 3090	10550 10220 9250 7130	L 380 3940 4050 3210	780 766 929 425	417 164 472 228	257 295 367	672 505 481	513 706 768	1650 1430 1710
	2 60	3300	5230	2710	lei					
	2230 2040 2140	1 ·30 4390 3700	1,930 (090 8820 8840	2300 2110 2490 2550	351 427 613 972 506	231 272 524 258 344	553 347 520 521 444	629 712 600 551 5 0	872 374 385 819 881	1500 1770 3440 20010 28240
1150 1190	21(2030 1920 2010 2100	4500 7160 5550 \$230 5670	10680 10180 10050 9950 7590	2090 1050 1900 1470 1460	657 461 541 571 554	316 409 269 430 451	447 602 653 641 6681	636 601 613 720 677	1840 2200 1190 976 1000	17550 125670 189100 67690 26450
1390 31.44 23-	2560 3090 1140 5750 4280	4 00 .920 .020 .4630 .630	6 70 6100 7690 3830 7 20	1470 1 50 1320 940 1360	271 208 318 669 628 632	- 7 511 603 636 681 576	553 585 510 364 542	567 603 604 631 715	762 763 775 875 792	33860 30000 13550 14280 11300 9180
	2440	Ide	7011	3672	670	431	utro	556	825	20512
	16-11	450.1	HY CI	2191,30	41/20	26.16	26780	36010	08094	1201220
	1190	1020 1050 1190 1190 1190 2100 1190 2100 2100 2100 2100 2100 2500 2100 2500 2500 2500 2500 2500 2500 2500 2500 2500 2500 2500 200 2	1020 5550 1190 2100 5230 1190 2100 56% 1300 2560 600 314 3690 -920 23* 1140 600 2** 140 600 4** 4280	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

in Acre-Feet Vater Year There q an'ities are the da'y mean soc minifest inflow to F is m Reservoir as computed by the U.S. Jureau of Reclamation, the invince ount comparing in storage, release, so ill, precipitation, and evaporation; and are representive of the natural f w at in, to dam site if to dam had not been constructed. Draine cores is 1875 square miles. Beginning of record for stora of Fernary L, Y. () 20 ar ap.

TABLE	95	
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DAILY CONTENT OF FOLSOM RESERVOIR IN ACRE-FEET - 1955

Dete		Storage at end of day in Thousands of Acre-Feet													
Deco	Jan.	Feb.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.			
12745			5.5909	78.7 35.4 91.2 96.2 100.8	244.4 245.4 244.9 245.4 245.4 243.3	448.5 450.0 453.0 455.3 455.3	426.9 425.4 423.2 421.8 420.3	339.7 335.3 332.8 325.7 326.6	218.3 214.4 210.2 206.1 202.0	178.2 177.0 176.4 175.0 173.6	159.6 159.2 159.0 158.7 159.8	173.5 175.2 177.4 179.2 179.3			
6 7 8 9 10			4.8 4.8 5.1 6.0	105.3 109.1 114.5 120.6 127.0	254.3 263.4 273.9 283.1 292.0	451.5 450.0 453.0 453.8 453.0	418.9 418.1 417.4 416.0 416.7	323.0 315.3 315.7 311.0 305.7	198.0 194.0 190.5 189.0 187.1	172.2 171.1 169.7 169.7 168.3	160.8 160.5 160.2 159.9 159.6	187.3 195.6 199.2 203.0 208.5			
11 12 13 14 15			9.6 10.3 10.0 9.3 9.9	135.1 141.0 148.0 154.6 159.9	303.9 318.7 332.8 344.7 352.4	451.5 450.7 450.7 451.5 450.7	413.8 410.2 407.4 404.6 401.0	302.2 298.8 294.0 291.1 291.1 287.5	185.2 184.5 183.7 182.6 181.9	166.9 165.6 163.9 162.5 161.5	159.2 160.0 161.2 161.2 161.1	212.4 213.5 214.3 216.0 217.1			
16 17 18 19 20			9.5 9. 10.2 10.2 10.4	165.6 174.6 183.4 101.3 198.0	356.3 350.6 365.5 76.9 388.5	150.0 450.0 448.5 447.7 447.0	398.2 394.7 391.9 389.0 385.7	283.6 279.8 275.5 271.2 267.6	181.5 181.5 180.9 180.3 180.3	161.9 160.8 159.5 158.9 158.5	161.3 161.2 161.6 163.1 164.7	218.3 221.7 228.4 266.3 320.4			
21 22 23 24 25		0 0+3	12.6 16.0 19.1 22.3 25.9	206.1 216.6 222.3 227.2 233.1	104.6 419.6 434.2 443.9 443.9	445.4 443.9 443.2 441.7 440.2	283.0 380.9 376.9 372.8 368.8	264.4 261.3 256.8 252.3 247.8	180.8 181.1 181.5 131.0 181.5	158.2 159.2 160.2 159.9 159.5	166.8 169.6 170.4 170.8 171.1	352.9 583.9 865.1 366.3 784.4			
26 27 28 29 30 31		2.9 5.9 5.1	30.3 35.1 42.3 53.1 63.7 71.5	239.2 243.5 245.5 245.4 245.4 244.9	450.0 450.7 451.5 452.2 452.5 451.5	438.7 437.2 435.0 432.0 429.8	364.2 359.6 355.0 351.1 347.3 343.5	243.5 239.2 235.0 230.8 226.7 222.7	1d1.1 180.8 180.1 179.0 178.6	158.4 158.4 158.5 159.5 160.4 160.4	172.5 173.9 173.7 173.4 173.1	727.8 669.0 608.7 561.2 531.6 520.4			
Monthl Change	7		+66.4	+173.4	+206.6	-21.7	-36.3	-120,8	-44.1	-18.2	+12.7	+347.3			
		Annu	el geln or	loss in s	torege: C	alender Yee	r +520,40	0*; Water	Year +178,0	500* (Acre-	Feet)				

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

Dete	Delly Meen Flow in Second-Feet													
Dece	Jan.	Feb.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
12 745	7260 8710 4360 3090 2520	2480 2760 2200 1860 1800	2170 2030 2030 2230 2100	315 315 327 339 339	4720 4420 3180 3980 4460	6920 3400 3530 4080 6580	1990 1670 1660 1680 1360	2420 2430 1540 1530 1520	2370 2390 2390 2400 2430	545 552 886 1070 1070	538 522 545 560 545	582 621 613 590 590		
6 7 8 9 10	2230 2040 1810 1710 1890	1790 1130 1500 1490 1480	2020 1900 1910 1930 2160	333 219 170 170 201	4280 4420 4440 5390 5340	9330 6760 5600 6040 5980	1070 1030 1010 958 966	2370 2310 2310 2530 2310	2230 2100 1940 1080 1070	1100 1080 1070 1070 1070	530 538 515 522 515	621 621 661 677 677		
11 12 13 14 15	1800 1580 1580 1580 1580	1430 1480 1450 1330 1290	2610 2720 3080 2930 2700	201 195 175 170 249	3630 2770 2880 2870 2870 2940	6060 4480 3010 3440 3380	1190 1670 1860 1860 1850	2090 2070 2070 2110 2060	1060 582 568 563 568	1080 1060 1050 1040 1040	560 485 470 522 530	637 629 621 653 637		
16 17 18 19 20	2930 2660 3020 4200 3470	1460 1970 4010 2940 2320	2670 2230 2110 2120 2140	185 160 175 185 185	2840 2800 3000 2870 2800	2760 2620 3090 2490 1390	1550 1840 1830 1960 2260	1960 1950 1930 1920 1930	560 568 552 572 478	1040 1020 1010 552 545	568 550 552 522 568	629 629 613 685 773		
21 22 23 24 25	2660 2340 2150 2080 2040	2000 1330 1650 1590 1060	1340 438 399 411 417	190 1200 2730 2960 2970	2350 2140 2530 4640 5070	2960 2400 1690 1690 1980	1990 468 2320 2350 2300	1930 1930 2300 2470 2460	522 522 515 515 533	545 545 538 538 538	502 582 598 575 575	321 6910 47300 69300 68500		
26 27 28 29 30 31	1990 1970 1890 1830 1830 1960	278 1550 31 ¹ 10	273 560 602 315 357 357	2800 2690 3840 4580 4720	5430 5470 6110 6950 7120 8600	1900 1710 2140 2100 2110	2350 2360 2330 2330 2370 21420	2420 2440 2140 2140 2310 2310 2400	545 545 552 552 545	545 538 530 530 530 530	605 575 575 575 532	67900 60400 47600 35000 214800 14000		
Mean	2669	1831	1654	1110	4236	3767	1779	2158	1057	302	550	14690		
c-Ft	164100	101700	101700	66030	260500	221,200	109400	132700	62910	49300	32710	903100		

U. S. Geological Survey station located on right bank at Mile19.2 eucove mouth. These flows include releases from Folsom Reservoir, after February 25, 1955. Dreinage area is 1921 square miles. Ferlod of record 1904 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 96

FLOW OF AMERICAN RIVER AT FAIR OAKS - 1955

TABLE 97 FLOW OF AMERICAN RIVER AT SACRAMENTO (H ST. BRIDGE) - 1955

Dete		Daily Meen Flow in Second-Feet													
Dece	Jan.	Feb.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.			
1 2 3 4 5	6180 9240 4760 3210 2560	2280 2850 2280 1910 1730	2220 1920 1950 2230 2040	342 342 354 368 361	5160 4840 3790 4060 4540	7860 2900 3380 3610 5900	2140 1690 1690 1730 1560	2300 2340 1530 1510 1500	2300 2300 2290 2300 2300 2290	539 555 712 1000 1000	531 547 515 547 547	582 618 618 600 600			
6 7 8 9 10	2240 2050 1780 1690 1830	1780 1320 1330 1470 1460	1980 1830 1840 1870 1970	354 317 195 170 205	4190 4310 4310 5550 5520	8900 7370 5180 6050 6210	1130 1100 1080 1040 1040	2240 2240 2160 2440 2320	2170 1940 1940 2340 1000	1010 1010 1000 990 1010	523 515 499 507 483	627 627 664 683 683			
11 12 13 14 15	1780 1560 1540 1510 1470	1430 1460 1450 1320 1280	2560 2630 3020 2960 2680	220 195 185 138 210	4310 2740 2940 2900 2960	6230 4480 3890 3380 3450	1160 1650 1940 1920 1920	1990 2010 1990 2010 2010	990 674 539 539 531	1000 990 980 980 980	539 491 475 499 507	654 627 645 654 664			
16 17 18 19 20	2610 2790 2740 4210 3660	1 340 1690 3930 3200 2400	2640 2260 2040 2040 2040 2060	215 138 166 166 175	3040 2770 3010 2990 2820	2890 2410 3210 2520 1900	1920 1910 1910 1980 2360	1900 1880 1850 1840 1840	523 539 539 491 422	980 970 970 654 539	539 539 547 515 523	636 654 636 712 382			
21 22 23 24 25	2800 2380 2140 2050 2020	2050 1870 1640 1640 1340	1640 515 408 430 468	190 593 2320 2560 2680	2350 2380 2380 4190 4960	2790 2760 1680 1690 1990	2360 500 1980 2230 2200	1850 1850 2110 2410 2350	499 491 491 499 507	539 531 523 531 531 531	573 564 591 573 555	209 4410 41600 69200 70300			
26 27 28 29 30 31	1980 1920 1850 1780 1780 1880	317 1120 3290	281 475 740 335 354 387	2760 2640 3550 4980 5100	5460 5630 5900 7350 7050 8680	1920 1690 2230 2230 2200	2220 2280 2180 2170 2260 2320	2380 2400 2400 2480 2480 2260 2340	523 523 523 531 531	539 531 523 523 523 523	573 573 555 573 573 573	70800 60400 47600 35000 24800 14000			
Mean	2645	1828	1638	1073	4293	3763	1793	2088	1059	764	536	14540			
e-Ft	1 2000	101500	100700	63830	264000	223900	110200	128400	63020	47000	31920	894300			
ximum scher		r year 72, rd 176,000	100 c.f.s. c.f.s. No	December vemuer 21	2 1755			<u> </u>	Total Runoff in Acre-Feet		ndar Year r Year	2191370 1423230			

Station is maintained jointly by Division of Water Resources and the U. S. Geological Survey. Station is located at the "H" Streat Bridge and is 6.0 files above the mouth. The American River flows into the Sacramento River at Mile 1.1L. Farlod of record 1921, 1926 to date. Record for 1955 computed by U. S. Geological Survey.

TABLE 9	8
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FLOW OF BEAR CREEK NEAR RUMSEY - 1955

Data	Deily Mean Flow in Second-Faet											
2404	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 745	a									0.9 1.1 1.2 1.2 1.2	1.2 1.1 1.1 1.1 1.1	0.9 2.1 1.2 0.7 1.2
6 7 8 9 10										1.2 1.1 1.1 1.1 1.2	1.1 1.1 0.9 0.8 0.8	26 13 4.6 7.2 5.9
11 12 13 14 15										1.5 1.5 1.2 1.1 1.1	0.8 0.9 1.6 2.4 2.1	3.78 2.88 2.66 2.6
16 17 18 19 20									*1.3 1.5 2.6 2.4 1.5	1.1 1.1 1.1 1.2 1.2	1.6 2.2 2.4 2.1 1.8	3.7 5.0 420 4440 917
21 22 23 24 25									1.3 1.5 1.3 0.9	1.3 1.3 1.2 1.2	2.2 2.1 1.5 2.1 2.1	832 2820 2030 318 151
26 27 28 29 30 31		=				_			0.8 0.8 0.9 0.9 1.1	1.2 0.9 0.9 0.9 1.1 1.1	1.2 0.8 0.8 0.8 0.8	1190 245 139 101 94 114
Mean										1.2	1.4	448
Ac-Ft										71	84	27560
Maximum Dischar	go	dar year '						1	otal Runoff n Acre-Feet	Water		

In Acre-Peet | Water Year Division of Water Ree roes Station located a, proximately seven miles northwest of Humaey one and one half miles above mouth. Rear Greek is a corth side tributary to Gache Greek. Station was installed on September 10, 19-5.

TABLE 99 FLOW OF CACHE CREEK NEAR CAPAY - 1955

Data					Daily	Mean Flow	in Second	-Feet				
Dutt	Jan.	Fab.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	97 123 142 128 116	198 217 192 174 161	150 140 140 132 125	78 72 72 69 67	296 264 240 224 233	417 399 404 476 502	444 448 448 435 430	394 430 440 471 494	296 303 296 289 272	60 565 58 58	11 9.6 8.4 8.8	7.4 8.4 9.2 11 13
6 7 8 9 10	105 97 93 95 110	150 142 135 128 123	116 112 105 116 155	64 83 103 110 125	261 330 346 292 258	480 466 466 462 480	453 489 476 453	489 458 430 408 412	292 292 272 268 261	42 45 24 19 18	7.4 7.1 7.1 5.9 5.9	405 526 217 145 158
11 12 13 14 15	112 101 93 91 91	118 116 114 112 110	183 161 145 132 123	135 161 204 233 244	237 250 278 282 258	507 507 507 502 494	435 435 471 480 498	422 417 399 394 422	254 237 230 201 142	17 14 13 12 12	5.9 5.39 5.3 5.3	123 99 81 70 62
16 17 18 19 20	101 155 220 292 394	107 112 110 103 99	114 112 105 101 97	244 233 217 204 177	258 282 289 261 261	494 489 448 404 408	480 430 462 471 466	435 366 346 334 326	91 107 116 112 99	10 8.4 8.8 8.8 10	5.9 5.9 5.6 5.3 5.0	58 58 117 14800 10300
21 22 23 245 25	334 286 282 278 268	97 93 91 87 83	93 91 87 85 81	371 1130 633 417 338	296 306 306 322 354	422 426 448 458 462	489 484 462 462 453	322 330 326 330 322	81 49 41 54 62	11 10 11 12 12	4.8 4.8 4.8 4.8 4.8	3370 20400 14900 6300 3280
26 27 28 29 30 31	254 233 214 198 189 195	91 164 201	78 76 76 79 78 7 9	507 494 394 358 334	370 342 318 338 394 426	458 480 502 466 453	448 426 399 390 362 358	322 314 314 303 289 306	60 58 58 60 59	13 13 13 13 13 11 11	5.3 5.9 6.2 6.5	6010 4420 4020 3350 3060 2910
Mean	177	130	112	262	296	463	449	380	167	22,5	6.4	3203
Ac-Ft	10880	7200	6880	15610	18190	27540	27600	23340	9940	1380	380	196900
Maximum Dischar	ge of raco	r year 31, rd 35,000	800 c.f.s. c.f.s. Jan	Dacamber uary 21, 1	22,1955 943				Total Runoff in Acre-Fast	Calenc Watar	lar Ysar Ysar	345840 173160

U. S. Geological Survey and U. S. Bureau of Reclamation cooperative station located three milas northwest of Capey and two miles upstream from Clear Lake Water Company diversion dam. Cache Creek is a west-side tributary to Yolo By-Fass opposite Mile 7.0 north of Sacramento By-Fass. Drainage area is 1052 square miles. Pariod of record 1944 to date. Records for 1955 computed by U. S. Geological Survey.

00		TABLE
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FLOW OF CACHE CREEK AT YOLO - 1955

Data					Oaily	Mean Flow	in Second-	Feet				
Dara	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dac.
12745	2 30 65 80 80	136 143 146 130 116	104 74 62 67 76									000000000000000000000000000000000000000
6 7 8 9 10	65 46 35 34 37	104 96 91 86 81	67 58 53 58									0 83 17 0
11 12 13 14 15	40 5.14 0	76 74 69 67 64	86 91 88 84 81	N C	N O	0 N	N O	N O	יז 0	N O	N O	000000000000000000000000000000000000000
16 17 18 19 20	0 0 80 178 242	64 67 74 71 67	76 67 58 14	F L O W	F L O W	F L O W	F L O W	F 1, 0	F L O W	E O M	F L W	0 0 5660 13300
21 22 23 24 25	260 215 202 202 191	44 46 44 40 35	42 35 19 35 34									3790 14200 16900 8770 3720
26 27 28 29 30 31	1d1 172 155 143 136 130	29 56 127	31 12.5 0 0	_		_						4940 5470 4320 3670 3260 3090
Mean	97.0	80.1	51.9	0	0	0	0	0	0	0	U	2942
Ac-Ft	5960	4450	3190	0	0	0	0	0	0	0	U	130900
Maximum Dischar	ge of recor	year 22, d 38,700	500 c.f.s. 2.f.s. Febr	December 2 ruary 28, 1	1955 940				Total Runoff in Acra-Feet		dar Ysar Ysar	194500 25561

U. S. Geological Survey and Division of Water Resources cooperative station located U.5 mile south of Yolo. Cache Craek is a west-side tributary to Yolo By-Pass opposite Mile 7.0 north of Sacramento By-Pass. Drainage erea is 1150 square miles. Feriod of racord 1903 to data. Records for 1955 computed by U. S. Geological Survey.

THELE 101 FLOW OF YOLO BY-PASS NEAR WOODLAND - 1955

Dete					Now in Second-Feet							
Dare	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 745	100 100 100 110 110	180 160 150 140 130	60 60 60 60 60	12345	67 64 29 17 19	40 40 41 40 39	9.6 13 22 29 28	12 13 13 11 10	41 37 34 40 58	22 21 19 19 17	8.6 8.1 8.1 7.2	9.6 10 10 10 15
6 7 8 9 10	110 110 120 120 120	120 110 100 100 94	60 60 60 57	r.1 6 6 6	24 24 37 44 52	39 38 37 37 38	23 14 9.0 7.2 6.8	14 11 7.6 6.3 5.4	77 74 65 68	15 15 14 14 14	7.6 7.2 7.2 6.8	15 20 20 20 21
11 12 13 14 15	120 120 123 130 150	90 80 70 63 63	55 55 55 55 55	77776.9	53 65 101 95	26 18 10 8.6 15	5.4 5.8 7.2 9.0 11	5.8 10 16 19 21	81 89 95 132 149	12 13 12 11 11	7.2 6.35 7.6 7.2	23 30 33 32 29
16 17 18 19 20	200 250 280 300 325	63 663 668 63	50 50 50 50 50	3 7 6 8 9	27 20 25 30 27	17 20 20 15 15	13 11 14 16 13	26 27 26 25	121 106 100 101 97	10 10 9.0 9.0 9.0	8.1 8.0 8.1 7.6 7.2	27 28 27 189 10000
21222	320 310 300 290 280	62 62 62 62 62	* 5520 * 1 1 2 40	10 16 67 70 84	29 43 46 39	10 10 6.8 9.0 10	10 11 8.6 7.6 6.3	27 27 31 21 19	101 100 93 68 49	8.1 8.1 7.6 7.2	7.6 7.2 8.1 7.6 7.6	53200 105000 230000 163000 119000
26 27 28 29 30 31	270 260 250 240 220 200	62 62 62	30 20 10 5 1 0.4	153 163 139 121 68	39 41 40 40 40	17 17 12 21 17	5.8 5.8 6.8 7.2 9.6 11	235 255 247 39	40 33 29 26 23	7.6 7.6 7.6 8.6 9.0	8.1466 88.866 88.866	153000 161000 162000 147000 119000 89800
Mean	195	87.9	45.4	33.2	42.8	22.8	11.5	19.1	73.0	11.7	7.6	-8-90
-Pt	11890	⊷88 0	2790	1980	2630	1360	708	1170	4350	720	+55	3000000

ischarge of record 272,400 c.f.s. Pebruary 6, 1942 Station is meintained jointly by the Division of Water Resources and the U.S. Geologicel Survey. This station is also known es Yole Dy-Pass at Etkhorn. The flow of this station is referred to the recorder in the Tule Canel below the end of Sacramento By-Fass except d.ring periods of high water when it is referred to the recorder at Elkhorn on Secramento-Woodlard highway crossing. To get total flow through Yole By-Pass below Sacramento, combine this flow with the flow in Tables 87 and 103. The flow in this table includes the flows of Cache Creek (Table 100), Knights Landing Ridge Cut (Table 61), and Premont Weir (Table 64). Period of record 1930 to date. Records for 1955 commund by U.S. Geological Survey.

TABLE 102

FLOW C	F PUTAH	CREEK	NEAR	WINTERS	_	1955

Date					Daily	Mean Flow :	In Second-1	?eet				
Dace	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dac.
1 2 3 4 5	145 236 175 132 110	158 154 139 126 120	408 321 279 249 221	78 70 68 69 65	345 305 273 241 209	30 24 22 20 18	4.69 4.99 4.32 5.2		0 1.4 1.6 0.9 0.2	0.8 0.8 0.9 1.2 1.2	1.4 1.8 1.2 1.0	*.0 5.0 7 4.0
6 7 8 9 10	100 6- 81 80 120	114 108 103 98 90	195 178 170 170 170	61 584 552 52	190 174 165 96 90	15 14 12 10 9.6	4.30 4.4.08 3.30 3.3 3.3		0 0 0 0,1	1.0 0.8 0.7 0.6 0.4	1.0 1.5 1.5 2.0 3.0	6.6 112 107 56 40
11 12 13 14 15	156 125 108 99 94	91 87 85 80 78	201 176 162 152 140	4 7 4 7 7 7 7 4 7 7	129 120 110 97 89	9.6 9.6 9.8 9.6 9.6	3.1 2.8 2.5 2.5 3.1	к О	2.0 2.2 1.5 1.0 3.0	0.3 0.2 0.1 0.2	3.0 3.5 5.2	36 32 26 22 20
16 17 18 19 20	109 156 713 806 770	77 77 74 69 65	129 93 120 114 106	15998 14735	88 86 83 80 76	8.8 8.2 7.6 €.9 5.9	2.9 2.5 2.4 2.3 2.1	p. 1 0 :e	+.5 +.9 20	0.3 0.2 0.3 0.5 0.9	5.0 4.0 3.0 3.5	20 21 +0 1++00 21100
21 22 23 24 25	+28 322 27+ 240 21+	63 62 60 59 57	100 97 92 88 78	1550 2040 787 508 395	68 60 55 50 49	4.8 3.4 5.6 5.1	1.7 1.2 0.8 0.4 0.1		16 10 7.8 4.8 2.7	1.5 1 1.3 1.3 1.3	5.0 4.3 3.9 3.9	9610 35500 33700 14200 4890
26 27 28 29 30 31	198 180 16 154 140 154	,^ 5 744 ~28	~3 71 70 76	841 840 509 460 398	46 4 2 4 4 2 38 54 35 4	4 0017 1 80 3 0017 1 80 3 0017 1 80	000000000000000000000000000000000000000		2.3 1.9 1.6 1.5 1.3	1.7 1.5 1.3 2.18 0.8	1000 0 mt	8060 8530 2890 1980 1540 1460
Mean	219	1	151	31¢	115	10.1	2,4	0	3.5	0.8	3.2	5110
ic-Pt	1 545	7º 10	9280	18800	7080	599	147	0	207	51	188	314200
aximum ischar				Dece er . mary 2 , 1				T	Total Runoff in Acre-Feet	Calend	ar Year Year	371 12 92789

. J. Je . , i m S rvey m : D e - f water Hes urces c. , ermive s'atir located six iles west of Winters. Futer. Creek is m west-side tr 'ary''' - Fa. el w Sacra ento By-Pass. Draine e mra is 5 7 square iles. Feriod of record 1930 to date. (Rec rd : '.es wi ream m alla je 1 5 to 1931). Rec rds f r 19 c m, ted by U. S. Je logical Survey.

TABLE 103

FLOW OF PUTAH CREEK NEAR DAVIS - 1955

Date					Deily M	iean Flow	in Second-	Feet				
	Jen.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	98 236 212 159 130	165 159 153 141 132	420 308 254 220 193	582 52 45 44 44	310 267 236 200 179	1.6 0.3 0 0						0 0 0 0
6 7 8 9 10	113 103 94 91 98	127 122 116 111 103	172 156 147 150 156	41 39 35 31 28	159 144 135 119 36	0 0 0 0						0 0 0 0
11 12 13 14 15	162 147 127 113 108	101 96 91 89 84	168 153 138 124 116	28 24 20 18 19	86 86 80 71 59	0 0 0 0 0	N O	N O	N O	N O	N O	0 0 0 0
16 17 18 19 20	108 144 445 818 734	84 82 76 71 67	106 80 94 94 84	18 19 19 23 24	56 52 50 47 43	0 0 0 0	F L W	F L O W	F L O W	F L O W	F L O W	0 0 7100 22500
21 22 23 24 25	502 375 312 276 214	63 63 59 59 58	80 76 74 69 63	789 2420 990 536 384	38 29 26 22 20	0 0 0 0 0						10300 30500 32500 18000 6650
26 27 28 29 30 31	220 196 182 168 165 162	67 480 784	52 54 54 54 50 49	576 990 594 450 374	18 14 12 9.9 7.5 3.0	0 0 0 0			_			5060 9440 3610 2140 1610 1420
Mean	227	136	129	291	84.3	0.1	0	0	Ũ	0	U	.995
Ac-Ft	13970	7540	7940	17320	5190	4	0	U		0	0	301000
Maximum Dischar	ge of recor	year 46,6 d 46,600 d	500 c.f.s. c.f.s. Dece	December 2 ember 22, 1	2, 1955 955				Totel Runoff in Acre-Feet		der Yeer Yeer	352964 86284

U. S. Geological Survey, U. S. Bureau of Reclamation and Division of Water Resources cooperative station located about one mile upstream from Highway 40. Putah Creek is a west-side tributary to Yolo By-Pass below Secramento By-Pass. Drainage area is 636 square miles. Period of record 1948 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 104

FLOW OF COSUMNES RIVER AT MICHIGAN BAR - 1955

Dete					Daily	Msan Flow	in Second-	Feet				
Dece	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	3160 2120 840 529 410	464 458 343 297 285	517 448 410 385 361	400 395 370 343 321	702 694 628 594 587	309 267 246 239 232	61 56 49 48 48 48	8.5 9.1 9.1 8.5 8.5	5.1 4.1 3.4 2.8	6.7 6.1 6.7 6.1 5.6	9.8 10 9.8 9.8 11	46 91 104 78 67
6 7 8 9 10	348 293 256 263 348	274 246 232 229 223	338 325 330 356 481	309 305 305 301 313	614 649 750 734 694	229 223 216 204 192	47 46 42 41 40	7.3 6.7 6.7 7.3 7.9	3.4 3.2 2.8 2.8	5.6 6.7 7.3 7.9 10	10 9.8 12 12 13	153 513 216 162 213
11 12 13 14 15	274 226 216 210 302	219 219 216 216 216 223	481 481 464 442 415	321 309 305 301 297	663 649 628 587 535	183 164 154 146 139	39 36 34 32 28	7.3 6.1 5.6 5.1 3.4	2.2 2.8 3.0 2.8 4.6	6.7 8.5 9.8 10 10	13 15 20 35 45	159 125 110 99 91
16 17 18 19 20	1060 587 1370 1720 1040	249 565 777 568 481	385 356 343 325 317	293 364 649 561 420	481 436 426 420 431	136 125 116 104 101	26 25 25 25 25 25	4.6 5.1 5.1 5.1	5.1 7.9 9.8 9.8 9.1	10 9.8 9.1 9.1 8.5	445039	88 101 156 1200 2530
21 22 23 24 25	614 493 426 385 361	420 385 348 321 305	301 289 281 278 281	572 1260 777 628 621	453 470 458 448 415	102 97 88 81 79	22 20 18 16 16	8.5 6.1 3.4 3.7	9.8 9.8 9.1 7.9 4.1	9.8 9.1 12 14 13	67 156 90 66 57	1470 13200 31700 16900 5800
26 27 28 29 30 31	338 317 297 289 293 321	305 964 720	289 301 343 431 470 415	786 702 649 621 656	375 352 330 325 343 338	78 74 70 66 64	15 15 14 13 13 11	3.4 4.6 4.1 5.6	6.1 5.6 6.1 6.7 7.3	13 13 14 10 9.8 9.8	49 442 440	7530 6500 3360 2390 1900 1820
Mean	636	377	375	482	523	151	30.5	6.0	5.4	9.3	37.6	3189
Ac-Ft	39090	20930	23090	28670	32150	8970	1870	367	324	571	2240	196100
Maximum Dischar	ge of reco	r year 42, rd 42,000	000 c.f.s. c.f.s. Dec	December ember 23,	23, 1955 1955			1	Totel Runoff	Weter	dar Year Year	354372 178545

U. S. Geologicel Survey and Division of Water Resources cooperative station located at road bridge at Michigen Ear. Dreinage area is 537 square miles. Period of record 1907 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 105 FLOW OF COSUMNES RIVER AT McCONNELL - 1955

Date				-	Daily	Meen Flow	in Second-F	'eet				
Dace	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dac.
12 745	2740 4380 1600 852 573	428 625 473 383 335	891 657 556 482 437	425 410 404 371 332	722 694 656 600 586	297 255 228 209 194	19 14 9.6 2.8 0				0 0 0 0	23 27 71 71 54
6 7 8 9 10	458 372 309 270 545	329 290 265 252 242	398 362 350 359 446	302 288 278 278 275	579 624 710 726 710	188 186 170 155 146	000000				000000	53 330 310 174 156
11 12 13 14 15	556 348 270 240 220	238 230 228 225 228	518 532 507 482 455	293 296 272 270 265	674 649 632 604 5 51	144 139 120 113 105	0 0 0 0	N O	N O	N O	0 0 0 0	168 122 97 87 76
16 17 18 19 20	1510 1850 1400 3630 2930	238 338 940 753 591	416 380 359 341 323	262 280 538 677 500	484 433 400 385 394	105 96 82 80 72	000000	F L O W	F L O W	F L O W	0 0 0 18	70 72 86 231 2460
22	1300 864 661 552 500	504 443 401 365 338	305 288 278 270 268	510 1190 1140 790 682	418 445 445 442 424	70 67 66 71 47	0 0 0 0				23 57 100 59 43	2330 3790 34100 35600 13800
26 27 28 30 31	467 428 395 368 353 371	317 772 1900	280 290 317 404 482 467	774 790 690 663 635	367 339 305 290 292 305	38 44 34 24 22	0 0 0 0				36 29 26 23 20	6740 14700 5900 2520 1670 1680
Mean	1010	453	416	496	512	119	1.5	0	0	0	14.5	4115
Ac-Ft	62110	25130	25590	29530	31510	7080	90	0	0	0	861	253000
Meximum Discher		r year 54, ord 54,000	,000 c.f.s. c.f.s. Dec	Decamber tember 23,	23, 1 955 1955				Total Runoff in Acre-Feat	Calen Water	dar Yeer Yeer	434901 212640

U. S. Gaological Survay, U. S. Bureau of Reclamation, and Division of Water Resources cooperative station located on Highway 99 bridge 10.7 miles abova t.e. mout... Whan flow in main channel reaches 4600 cfs water starts to by-pess station. Figures have given include all overflow. Drainega eras is 730 aquere miles. Fariod of record 1942 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE	1	06	
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FLOW OF DRY CREEK NEAR OALT - 1955

Dete					Deily M	lean Flow 1	n Sacond-1	Faat				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12745	993 1100 384 214 142	222 259 187 148 128	273 196 172 152 138	26 25 25 24	93 92 94 84 82	0 0 0.2 0.4	00000	000000			0 0 0.1	00000
6 7 8 9 10	117 94 77 97 452	111 97 85 76 68	120 106 100 92 94	22 21 22 20 18	80 65 76 76 66	0.6 0.5 0.5 0.5 0.5	00000	0 0.3 0.4 0.5			00000	00000
11 12 13 14 15	239 130 97 86 91	61 56 52 49 44	83 73 64 59 57	18 17 17 17 17	58 54 50 47 45	0.5 0.5 0.5 0.5	0 0 0 0	0 0 0 0	N O	N O	0 0 0 0	0 0 0 0 0
16 17 18 19 20	1190 791 900 2150 1430	44 100 205 129 102	50 45 44 44 40	15 13 21 114 64	44 36 33 29 25	0.4 0.4 0.4 0.4 0.4	0 0 0 0	0 0 0 0.1	F L O W	F L O W	0.2 0.2 0 0	0 0 22 624
22 22 23 24 25	667 402 324 286 259	90 76 69 66 64	37 34 34 32 30	53 368 216 119 95	19 7.0 0 0	0.4 0.4 0.2 0	0 0 0 0,1	0.1 0.1 0 0 0			0 0 0 0	270 1840 12800 13100 3890
26 27 28 29 30 31	241 221 204 194 194 200	61 374 577	29 28 28 28 28 27 28	100 106 94 86 80	0 0 0 0 0	00000	0 0 0 0.1 0	0.1 0.3 0.2 0.2 0 0	_		0 0 0 0	2800 4590 1660 865 637 784
Meen	451	129	75.4	61.9	40.5	0.3	0	0.1	0	0	0.0	1416
Ac-Ft	27700	7140	4640	3690	2490	18	0	5	0	0	1.0	87040
Maximum Diachar	ngo of reco	r year 17, rd 11,-00	DUU c.f.s. c.f.s. Duce	Decem.er 2 mber 24, 1	. 1955 /55				tal Runoff Acre-Feet	Calen Water		132724 51955

U. S. Geological Survey, U. S. Burea: of Reclamation, and Division of Watar Resources cooperative station. Station is also known as Dry Creek at Dustin Road and is located at Dustin Road Bridge. Drainers area le 325 square miles. Period of record 1926 to 1933: 1944 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 107 FLOW OF MOKELUMNE RIVER AT LANCHA PLANA - 1955

Date					Daily	Mean Flow	in Second	-Fest				
Date	Jan.	Feb.	March	April	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 745	604 581 594 688 542	550 676 676 676 676	273 215 369 344 64	308 312 306 312 206	167 340 344 344 345	338 336 334 286 172	382 382 382 382 382	427 403 3 99 407 407	482 482 167 161 161	169 210 485 479 488	341 338 338 338 338 338	344 341 341 341 341 341
6 7 8 9 10	534 577 570 544 573	671 676 666 660 671	59 352 328 327 330	205 200 193 113 111	347 310 180 364 359	324 330 333 335 330	387 425 380 320 318	288 289 406 428 285	480 462 476 503 170	501 486 223 220 490	338 338 338 338 338 338	344 377 377 377 377 377
11 12 13 14 15	571 550 566 551 590	671 671 671 617 468	330 63 63 333 332	299 306 311 304 302	365 258 345 299 174	288 170 328 324 323	401 404 401 386 383	447 423 247 247 444	167 479 451 474 477	487 475 476 475 222	338 338 330 344 344	377 362 347 342 353
16 17 18 19 20	620 698 612 597 578	495 532 594 550 442	306 308 283 65 65	126 122 306 312 309	344 346 343 341 341	323 323 282 167 318	332 321 381 361 404	432 430 428 444 247	480 205 220 451 462	216 476 403 493 488	341 344 342 342 342 341	353 353 55 367 356
21 22 23 24 25	698 621 450 563 557	508 513 514 507 660	279 260 293 238 236	333 318 118 116 282	297 170 342 341 383	320 321 324 324 282	402 362 324 326 385	248 427 425 275 403	461 436 454 199 204	487 224 226 479 469	341 341 341 341 341 341	356 1600 19100 14900 6200
26 27 28 29 30 31	589 688 588 521 558 594	403 466 585	116 114 239 239 270 309	284 283 284 293 126	342 343 295 172 338 326	191 485 480 456	406 407 409 407 285 301	104 249 242 408 404 401	453 456 460 463 465	299 338 338 338 338 338 341	338 341 341 338 338	5200 6000 4900 41400 3700 3400
Meen	586	588	239	2/16	310	321	372	368	382	384	339	2490
Ac-Ft	36030	32660	14680	14660	19050	19110	22070	22640	22730	23640	20200	153100
Maximum Discher	ge Calendar	year 24, d 20,700	500 c.f.s. c.f.s. Nov	December emper 21,	23 1955 1950				Totel Runoff in Acre-Fest		ndar Year r Yeer	401370 308100

U. S. Geological Survey and Division of Water Resources cooperative station located three miles dow stream from Purdee Dawn Drainage area is 584 square miles. Pariod of record 1920 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 108

FLOW OF MOKELUMNE RIVER NEAR CLEMENTS - 1955

					Daily	7 Meen Flow	in Second	l-Feet				
Date	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 3-45	862 664 643 730 586	555 694 699 699	317 194 425 382 221	342 345 218 458 262	100 328 387 380 376	423 435 400 367 203	394 418 421 418 412	400 416 402 401 408	442 483 284 154 152	290 161 368 463 466	335 338 338 338 338	362 350 350 350 355 355
6 7 8 9 10	594 611 619 602 708	690 694 681 677 690	55 164 374 353 344	218 215 217 109 95	382 333 178 378 428	389 429 428 428 433	461 405 386 354 326	356 284 329 406 374	352 475 472 477 305	466 477 292 212 385	335 335 338 338 338	362 378 391 397 385
11 12 13 14 15	627 611 602 582 648	686 681 677 677 432	371 224 61 164 353	265 316 316 316 320	441 433 419 366 200	*396 215 393 426 418	353 412 405 407 391	468 422 339 240 341	158 355 476 456 480	469 457 453 456 294	338 340 345 345 345 348	385 378 358 352 365
16 17 18 19 20	989 796 979 960 800	470 555 611 566 500	350 330 294 194 57	150 124 285 333 310	388 422 405 *401 422	417 414 *383 189 347	361 327 360 384 372	422 424 426 448 344	479 274 211 398 468	212 372 451 466 471	348 348 345 345 345	362 368 368 421 409
21 22 23 24 25	774 681 539 582 623	462 539 543 539 708	124 308 325 *355 *264	275 358 84 35 203	*370 *192 378 411 *444	396 389 395 404 324	408 381 361 332 365	2 4 3 320 424 419 401	470 462 455 265 211	456 296 214 377 442	348 352 348 350 350	375 902 16100 20600 7170
26 27 28 29 30 31	606 712 619 570 559 643	520 547 725	156 119 223 259 296 344	273 252 258 254 88	*410 413 388 206 381 420	275 390 676 637 634	392 407 404 288 342 320	401 328 238 322 400 396	379 469 452 453 475	369 335 335 335 335 332 335	350 348 350 348 348	5300 6090 4960 4530 3850 3510
Mean	681	614	258	243	361	402	380	372	381	371	344	2608
Ac-Ft	41890	34130	15870	14470	22180	23910	23340	22890	22690	22820	20450	160300
Maximum Dischar		r year 27, rd 28,800	300 c.f.s. c.f.s. Nov	Dacamer embar 21,	24, 1955 1950				Total Runot in Acra-Fea	f Cale t Wate	ender Yeer er Yeer	424940 335680

Division of Water Resources station located one mile north of Clements, 700 feet patream from the highway bridge. Drainage area is 630 square wiles. Feriod of record 1904 to dete.

TABLE 109 FLOW OF MOKELUNDNE RIVER AT WOODBRIDGE - 1955

0-1-	Daily Mean Flow in Second-Feet												
Date	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
コンターチッ	692 736 603 626 610	570 580 £49 653 653	518 280 222 314 307	15 15 15 14 14	56 40 92 158 109	16 16 16 16 17	17 19 20 20 21	17 17 17 18 18	17 18 25 20 18	199 57 25 118 182	168 175 177 173 173	316 324 313 312 313	
6 7 8 9 10	536 534 557 554 621	653 651 651 640 637	139 95 200 270 268	14 14 14 13	81 171 113 47. 115	18 19 17 16 16	21 20 19 18 18	18 18 17 17 17	17 17 20 26 98	190 206 204 66 30	169 166 156 140 154	322 322 349 356 348	
11 12 13 14 15	610 573 550 548 554	649 649 646 644 522	266 265 123 79 173	13 13 12 12 12	149 79 42 40 29	14 11 12 12	18 17 17 15 14	18 18 19 18 17	28 21 20 111 194	127 196 218 234 220	170 187 287 331 472	343 343 330 313 309	
16 17 18 19 20	803 780 750 934 899	456 502 548 554 489	244 238 235 216 114	12 11 11 11 11	26 24 21 20 20	12 11 11 12 12	14 15 16 16	16 17 17 17 18	192 229 60 27 170	92 49 155 223 241	650 390 336 324 320	318 322 325 349 385	
21 22 23 24 25	727 692 612 489 564	428 471 480 482 531	72 28 20 22 22	165 212 146 46 40	19 19 17 16 17	12 12 12 11 11	15 15 15 16 16	17 16 16 17 17	210 196 188 204 73	253 244 100 61 163	320 318 319 316 314	344 462 2180 14300 10000	
26 27 28 29 30 31	559 628 630 554 522 568	577 430 582	18 17 17 16 16 15	124 134 146 109 118	17 17 17 17 17 17 17	11 12 12 14 15	16 17 17 17 17 17	18 18 17 16 16 17	36 128 183 188 199	237 164 162 170 111 106	313 310 309 307 305	5940 5250 5380 4880 4420 3890	
Mean	633	571	156	50.0	52.3	13.6	17.1	17.2	97.8	159	275	2053	
e-Ft	38910	31690	9590	2970	3220	807	1050	1060	5820	9750	16360	126300	
Meximum Discher	Celends	er yeer c3,	9090 .000 c.f.s. .f.s. Nove	December	c4, 1955	001	10,00	1000	Totel Runof	f Cele	nder Yeer r Yeer	247 177	

10

ilacherge of record 27,000 .f.s. November 22, 1950 in Acre-Feet Weter Yeer 177217 U. S. Geologicel Survey and Oivision of Water Resources cooperative station located بل mile below diversion aam of Woodbridge Irrigetion District. Drainage area is óld square miles. Period of record 1924 to date. Records for 1955 computed by U. S. Geologicel Survey.

ABLE 110

FLOW OF BEAR CREEK NEAR LOCKEFORD - 1955

Date					Deily	Meen Flow	in Second-	-Feet				
Dare	Jen.	Feb.	Merch	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 2 3 4 5	253 60 21 10 6.6	11 9.5 7.6 5.6 4.6	18 10 7.1 5.2 4.1	0.1 0.2 0.2 0.2 0.3	0.7 0.5 0.4 0.2 0.2	0.2 0.4 0.3 0.1 0	0.6 0.7 0.3 0.1 0					0 0 0 0
6 7 9 10	5.2 3.8 2.8 27 173	4.1 3.6 2.4 3.0 2.4	3.4 3.0 2.6 2.8 3.4	0.1 0.1 0.3 0	0.1 0.1 0.1 0 0	0 0 0 0	0 0 0.3 0.1					0 0 1.5 0.3
11 12 13 14 15	39 18 10 8.0 29	2.2 2.0 1.9 1.9 1.3	3.6 2.2 1.7 1.4 1.1	0 0.1 0 0.2 0.1	0 0.1 0 0	0 0.1 0.1 0.1 0.1	0 0 0 0 0	N O	N O	N O	N O	0.1 0 0 0 0
16 17 18 19 20	356 74 420 499 232	0.9 6.2 13 4.9 3.2	0.9 0.8 0.7 0.6 0.5	0.1 0.1 0.1 0.1 0	0 0 0 0	0.45	0 0 0 0	FLOW	F L O W	F L O W	P L O W	0 0 4.1 21
21 22 23 24 25	63 44 33 25 25	2.4 2.0 1.9 1.6 1.6	0.5 0.4 0.3 0.2 0.2	0.4 3.9 7.6 6.3 2.0	0.1 0.1 0.4 0.5 0.1	0.4 0.6 0.6 0.4 0.1	0 0 0 0 0					378 1460 1030 154
26 27 28 29 30 31	19 14 11 10 2.5 9.0	1.6 106 48	0.2 0.2 0.2 0.3 0.2 0.1	1.4 1.1 1.3 1.1 1.0	0 0 0 0 0.4	0 0.1 0.2 0.3			_			370 247 70 38 27 122
Mean	81.0	y.2	2.4	1.0	0.1	0.2	0.1	0	0	0	0	127
Ac-Pt	4980	509	151	50	8	12	4	0	0	0	0	7790
Maximum Dischar	ge of rec a	r yeer 184 rd 2200 c.	0 r.f.s. D f.s. Febru	ece. er 13 er, 2, 194	5 25-5				Total Runoff in Acre-Pest		dar Year Year	13510 6675

U. S. Govargical Survey and Division of water Hes urces cooperative station located at County Road bridge U.O mile southeast of Lockef re. Drainage ares is 4 ... equare files. Period of record 1930 to 1/33; 1943 to date. (Frior record available at a site t ree miles downstream.) Hec rds f r 1955 cont ed by U. S. De logical Survey.

TABLE 111 FLOW OF CALAVERAS RIVER AT JENNY LIND - 1955

	Oaily Mean Flow in Second-Feat												
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
12 745	1570 2040 736 498 205	237 310 249 195 169	20 16 13 12 11	000000000000000000000000000000000000000	60 61 61 65	173 176 174 171 171	152 158 162 158 154	176 190 183 195 178			000000000000000000000000000000000000000	5.2 14 38 35 26	
6 7 8 9 10	162 135 115 108 3°3	152 137 130 122 117	10 9.8 9.8 10 10	0 0 0 0	104 118 93 93 93	171 174 171 176 192	164 135 183 180 178	162 154 143 88 52			0 0 0 0	40 414 178 117 162	
11 12 13 14 15	238 188 145 126 141	113 108 102 98 94	<.8 5.6 7.1 6.6 5.8	0 0 0 5.0	93 93 94 94	174 145 145 152 174	164 143 156 174 174	65 20 7.6 1.8 0	N O	N O	000000	113 74 56 44 37	
16 17 18 19 20	1380 954 1650 2940 1940	61 32 26 12 9.2	5555	71 102 104 115 141	01 64 88 111	183 183 183 183 183	174 174 171 174 178	0 0 0 0	F L O W	K, ⊡ O Z	0 0 0 0	34 34 49 314 2040	
21 22 23 24 25	729 1:35 340 297 275	8.0 6.6 6.2 5.3 5.3	3.5 4.0 4.0 2.1	113 74 28 23 31	109 122 141 160 162	180 174 162 160	185 183 180 185 200	0 0 0 0				1210 2890 10500 10300 8940	
26 27 28 29 30 31	254 237 215 198 188 200	1.8 71 36	0 0 0 0 0 0	62 60 59 50 60	162 162 158 156 178 178	158 158 156 154 154	254 208 195 188 183 176	0 0 0 0			0.5 0.6 0.6 0.6 0.2	7670 6350 5520 3810 2890 2040	
Mean	612	्र4.2	6.5	36.9	109	169	177	52.1	0	0	0.7	2143	
c-Ft	37650	5230	400	2200	6720	10070	10900	3200	0	0	39	131800	
c-Ft aximum ischarg	Calendar	year 14,2	00 c.f.s.	2200 December 2 ary 31, 19	3,1955	10070	10900	T	O otal Runof n Acra-Fae	f Cals	39 ndar Ysar r Ysar		

U. S. Geological Survay and Division of Waler Resources cooperative station located 0.2 mile south of Jenny Lind at Milton Road bridge. Drainage area is 395 square miles. Pariod of record 1907 to data. Records for 1955 computed by U. S. Geological Surve.

ТA	BLE	112	

FLOW OF CALAVERAS RIVER AT BELLOTA - 1955

Data					Daily	Meen Flow	in Sacond	-Faet				
Data .	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sapt.	Oct.	Nov.	Dec.
12345	0.432	*0.5 *1.0 0.7 0.3 0.3		0 0 0 0	40 34 36 36	93 86 91 94	110 108 108 107 103	105 105 100 101 99				0 0 0 0
6 7 8 9 10	0.2 0.2 0.3 0.5	0.3 0.3 0.3 0.1		0 0 0 0	51 68 65 58 53	94 66 67 97	105 113 114 116 116	96 90 #65 #15				0 28 70 70 70
11 12 13 14 15	0.3 0.2 0.2 0.2 0.2 0.2	0 0 0 0	N O	0 0 0 0	52 53 1,8 1,6 1,6	100 95 92 88	112 100 99 107 110	*45 28 3.6 0.1 1.5	N O	N O	N	68 63 57 47 38
16 17 18 19 20	1.9 0.4 3.0 15 34	0 0 0 0	F L O W	000 30 92	46 45 44 54	103 106 107 108 108	109 109 105 104 105	0.7 0.1 0.1 0.1	F L O W	FLOW	F L O W	32 22 4.8 19 129
21 22 23 24 25	12 2.5 1.0 0.7 0.6	0 0 0 0		952 952 524 29	57 66 82 814 83	108 108 107 106 110	108 109 107 108 107	0 0 0 0				165 193 NR NR NR
26 27 28 29 3 0 3 1		0000		35 40 34 40	34 84 92 94 93	114 115 112 112 112 110	111 112 110 110 110 109	0 0 0 0 0				NR NR NR NR NR NR
Mean	2,5	6.1	0	23	60	102	108	32	3	0	0	
Ac-Ft	156	8.0	0	1376	3687	6060	6664	1968	0	0	U	
Maximum Dischar	ga					he his church			Fotal Runoff in Acra-Faat	Watar	ndar Ysar Ysar	19927

Division of Water Resources station located just above the highway bridge at Ballote. Flows in the Calaveras River and in Mormon Slough are regulated by headgates near Bellota. Period of record 1948 to data. Station washed out due to high water on December 23, 1955. * Estimated

TABLE 113 FLOW OF CALAVERAS RIVER NEAR STOCKTON - 1955

Date					Deily	Mean Flow	in Second-	Peet				
Dare	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 7-45	0			00000	1.0 0 0	15 21 16 17 19	13 14 11 16 15	7.2 4.2 •14 •8.1 •				0000
6 7 9 10	0 C 0 0			0 0 0	7.7 32 32 24	2 12 0.3 5.6	6.3 6.7 9.4 12 2.	2.54 7.8 3.6				00000
11 12 13 14 15		N O	N C	0 0 0 0	21 22 21 15 15	10 13 14 2.3 0	20 12 1.2 1.2 1.6	0000	0	:: 0	: 0	1000 t-
16 17 18 19 20	0 0 6 65	P L O W	F L O V	0 0 0 0	16 11 5.7 0	0 2.0 11 13 19	14 13 0.7	000000000000000000000000000000000000000	P L Q	PLO.	년 년 국	23 .9 14 3.8
21 22 23 24 25	33 11 3.9 1.2 0			0 914 30 13 4.4	1.4 .7 11 18 24	11 4.1 4.4 1.7 0	7.2 10 15 21 19	0 0 0 0				155 178 206 •438 *1.6
26 27 28 29 30 31	0 0 0 0 0 0	=		0.4 0 1.3 0	22 22 15 18 23 21	10 19 12 12 14	14 15 13 10 2.7	0 0 0 0 0	_		_	343 252 1 4 150 129 122
Mean	3.9	0	0	2.1	13.6	10.7	11.0	÷.0	0	C	U	94.0
c-Ft	239	0	0	125	-36	637	074	123	0	Ę.	Ū	5783
laximum Dischar				eamcer 24,				11	tal Runoff	Water		5417 2634

in Acre-Peet Water Yeer 2634 Division of Water Resources station located upstream from Solari Road bridge and 3.5 miles above the mouth of Stockton Diverting Canal, Flows in the Calaveras River are regulated by headgates near Bellota. Feriod of record 1948 to date.

	TA	BLE	112
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FLOW OF MORMON SLOUGH AT BELLOTA - 1955

Date					Dally	Mean Flow	in Second-	Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	No∀.	Dec.
12 うよう	1690 2240 998 419 251	203 338 314 251 210	46 31 24 22 20	0 0 0 0	1.2 4.8 14 0.0 5.0	70 74 65 64 72	459 40	3349 349 344				0000
6 7 9 10	180 148 122 197 561	187 168 154 144 135	17 14 12 12 13	000000	11 50 35 33	64 66 61 62 70	33 53 54 60 64	27 17 17 1.1 0				0 112 141 46 71
11 12 13 14 15	398 246 176 148 275	128 122 116 106 103	11 10 9.2 8.2 5.2	0 0 0 0	52 \$52 55 60 64	68 54 50 60	58 335 57 54	000000	N O	N 0	N O	2. 3. 0.
16 17 18 19 20	1900 1290 2020 3560 2480	103 62 53 33 24	5.3 4.3.4 *3.4 *3.0	0 5.8 27 14 16	65 46 17 #11 #18	68 69 73 74 73	50 51 39 35 34	000000000000000000000000000000000000000	F L O W	P L O W	F L O W	0 33 71 1380
21 22 23 24 25	1 d0 622 462 31 d 357	20 17 16 13 12	•2.2 •1.7 •1.3 •1.3 0.9	30 23 •20 •16 •13	≥24 *30 ≥37 ≈144 *50	74 72 65 61 61	36 41 41 48 42	0 0 0 0				1250 •2220 NR NR NR
26 27 28 29 30 31	323 304 251 234 234	11 119 87	1.3 1.7 1.7 0.5 0	●9.5 ●4.1 ●2.7 ↓.2 ↓.0	842 74 64 69 69	59 59 52 51 48	72 05 52 42 43	0 0 0 0 0	_		_	NR NR NR NR NR NR
Mean	769	118	9.3	*.3	39.5	3.7	47.2	7.3	C	0	U	
Ac-Pt	472-0	6563	571	373	24	370	2400	up-a	U	0	L.	
lax1mum Dischar									tal Runofi Acre-Feet		dar Year Year	76843

In Acte-Feet Water Year 10043 Division of Water Resources atation located just velow the bellota-Escalon Road unidge. Flows in Mormon Slough and Cal versa River are regulated by headgates near Bellota. Feriod of record 1948 to dete. Station washed out by high water on December 21, 1955. • Estimated

TABLE 115 FLOW OF STOCKTON DIVERTING CANAL AT STOCKTON - 1955

Date	Daily Maan Flow in Second-Feet													
Dare	Jen.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
コマットセン	1300 2500 1220 463 238	158 213 231 174 137	36 20 15 11 7.9			10 8.6 18 7.6 12	0 0 0 0					000000000000000000000000000000000000000		
6 78 9 10	160 120 100 84 657	118 108 94 88 84	5.6 4.3 3.0 2.6 2.5	00000	0 5.3 0.0	22 6.0 9.0 6.6 0.7	0 0 0 3.7					2 0 132 77 40		
11 12 13 14 15	477 276 194 146 115	80 78 74 71 68	2.5 1.1 0.1 0	0 0 0 0	0 0 0.7 9.6	13 9.5 0.1 0	7.6 0.1 0 0	N O	N O	N O	0 N	74 32 7.3 0.3 0		
16 17 18 19 20	1970 1570 1690 3900 2810	68 53 30 20 11	0 0 0 0	000000	6.4 7.9 0.2 0	0 4.3 9.5 16	0 0 1.8 0	F L O W	F L O W	F L O	F L 0 W	0 0 768		
21 22 23 24 25	1150 579 *382 *301 *258	7.0 4.8 3.6 2.6 1.6	0 0 0 0	0 6.7 9.9 5.0 0.6	0 0 0 4.6	13 14 11 3.3 1.4	0 0 0 0					1310 1430 *7150 *9500 *8940		
26 27 28 29 30 31	*227 *198 176 157 144 139	0.9 20 90	0 0 0 0 0		18 19 11 0.3 2.8 16	0.1 2.5 0 0 0	1.3 36 18 6.6 2.5 0.6		_		_	*8070 *7140 *5360 *3640 *2420 *1890		
Mean	765	74.6	3.6	0.7	3.3	6.6	2.5	0	0	0	0	1871		
c-Ft	47010	4142	221	44	203	395	155	0	0	0	0	115000		
aximum bischar	Calendar ga of racor	yaar 9970 d ,970 c.f.	c.f.s. Dec s. Decembs	amuer 24, ar 24, 1955	1955				Total Runoff in Acra-Feat		ndar Year Yaar	167170 68300		

Durision of Wster Resources station located approximately 300 feet downstream from Weterloo Road Bridge. Period of record 1944 to date. * Estimated

TABLE 116

FLOW OF DUCK CREEK AT FARMINGTON - 1955

Date L	Daily Mean Flow in Second-Feet													
	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dac.		
12 745	59 45 20 6.1 3.2	1.6 2.3 1.8 1.2 1.0		00000								0 0.1 0.1 0.1 0		
6 7 8 9 10	2.1 1.9 1.8 6.7 64	0.3 0.5 0.2 0.1 0		0 0.1 0.1 0								0.2 0.2 0.3 1.48		
11 12 13 14 15	20 11 5.2 3.2 5.7	0 0 0 0	N O	0 0 0 0	N O	0.2 0.1 0								
16 17 18 19 20	68 34 51 59 48	0 0 0 0	F L O W	0 0.1 3 0.1	F L O W	0000								
21 22 23 24 25	22 0.1 4.(3.3 2.4	0000		2.7 31 2.5 .4 0.2					4 			0.1 61 99 80 43		
26 27 28 29 30 31	1.3 1.5 1.2 1.1 1.0 1.0			0.1 0 0 0		_			_		_	41 50 27 9.6 4.2 42		
Mean	1.5	0.3	0	L.3	0	0	0	0	U	0	0	15.0		
c-Ft	113.7	19	0		Ç	0		i)	0	0	0	924		

lacharge in Actor resources station located v.5 mile northwest of Parmington, 300 feet west of weltots-Bescion Road. Duck Creek is an east-side tributary to the San Joaq in River at Nile Lo.1R, via French Camp Slough. Period of record 1950 to dete.

T ELE ___ FLOW OF DUCK CREEK NEAR STOCKTON (POCK LANE) - 1955

Date					Daily	Meen Flow	in Second-	Feet				
Dace	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 2 3-45	56 77 38 22 14	0.4 0.2 0.1 0.1 0.2	0 0 0 0	0 0.1 0.1 0.1 0	0.1 0 0 0 0	0.4 0.2 0.3 0.1 0.2	Ū.2 0.6 0.1 0.1 0.1	0.2 0.2 0.5 0.5	1.3 1.8 1.1 0.5 0.3	0.3 0.1 0.6	0 0 0 0	0 0 0 0
6 7 8 9 10	9.5 6.6 4.1 2.7 3.1	0.4 0.3 0.2 0.1 0	0 0 0 0	0 0 0.1 0.2	0 0 0.2 0.3	0.3 0.4 0.2 0.1	0 0.2 0.4 0.3 0.6	0.7 C.8 0.7 1.0 1.4	0.3 3.3 5.2 1.2 0.4	1.0 0.2 0.2 0.2 0	0 0 0 0	0 0 1.9 3.8
11 12 13 14 15	60 30 18 13 9.9	0 0 0 0	0 0 0 0	0.1 0.1 0.1 0.1 0.2	0 0 0 0	0 0 0.3 0.9	0.2 0.1 0.8 C.7 0.3	0.8 0.8 0 0.1 0	1.0 1.6 1.6 1.7 1.6	0 0 0.6 0.2	0 0 0 0	7 3-7 2-2 1.0
16 17 18 19 20	50 134 75 175 147	0 0 0 0	0 0 0 0	\$0.2 \$0.2 \$0.2 \$0.1 \$0.1	000000	0.9 0.3 0.1 0.1 0.2	0.2 0.2 0.1 0.5	0 U.1 1.1 3.4 1.4	1.4 0.7 0.9 0.3 1.5	0.1 0.2 0.3 0.1 0	0.2 0.2 0.1 0	0.5 0.2 0.2 2.0
21 22 23 24 25	74 36 20 14 9.3	0 0 0 0	0 0 0 0	#0 \$2.4 0.8 5.2 4.1	0 0 1.9 2.0 1.4	0.2 0.2 0.6 0.4	2.4 1.6 0.6 C.8 0.6	0.4 1.8 2.8 2.6 3.3	3.2 1.8 1.2 0.5 0.6	0 0 0 0	00000	1.2 5.7 178 357 215
26 27 28 29 30 31	6.1 4.5 2.6 2.0 1.4 0.8	0 0	0 0.1 0.2 0.3 0.1 0.1	2.1 1.0 0.2 0.1 0.2	0.6 0.2 0.1 0.1 0.8 1.2	0.2 0.1 0.3 0.1	0.4 6.2 6.1 6.1 0.0 0.6	3.7 1.6 0.8 0.4 0.4 0.9	0.7 0.3 0.7 1.2 0.5		0 0.1 0.1 0	57 80 64 37 29 24
Mean	36.0	0.1	0	0.5	0.3	0.2	0.4	1.1	1.3	0.1	0	35.6
Ac-Ft	2213	4.0	2.0	36	18	15	27	66	77	9	2	2189
Maximum Dischar		. Year Huc	c.f.s. De	cem er 24,	1955				Total Runoff in Acre-Feet		dar Year Year	46 57 2765

Division of Water Resources station located approximately 0.5 mile west of Highway Sy on Pock La.a.ridge. Duck Creek is an est-side tributary to the San Joaq in River at Mile Lolk via French Ca. Slovj. Diring. Shellow series Dick Creek water enters Mormon Slough at a joint approximately two miles east of the head of the Stockton Diverting Ca.al. Pariod of record 1,50 to date.

DU

TABLE 118										
СК	CREEK	DIVERSION	NEAR	FARMINGTON	-	1955				

Date	Daily Mean Flow in Second-Fast											
	Jan.	Fab.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	1214 17 0 0				000000000000000000000000000000000000000							0 0 0 0
6 7 8 9 10	0 0 30 129				000000							0 0 0 0
11 12 13 14 15	0 0 0 55	N O	N O	N O	0 0 0 0	N O	N O	N O	N O	N O	N O	0 0 0 0
16 17 18 19 20	353 3 267 125 32	H L O W	FL Od	FLOX		F L O W	F L O W	F L O	F L O N	F L O W	FLO V	0 0 0 0
21 22 23 24 25	0 0 0 0				1 8 0 0 0							0 212 1494 534 18
26 27 28 29 30 31	0 0 0 0 0	=			0 0 0 0 0 0							204 85 0 0 26
Mesn	44.3	0	0	0	0.3	0	0	0	0	0	0	83.0
c-Ft	5124F		0	0	18	0	0	U	0	0	0	5105

 Discharge
 ree rd <.t</th>
 f.s. bucenter <1,1955</th>
 Control of the start of the sta

TABLE 119 FLOW OF LITTLEJOHNS CREEK AT FARMINGTON - 1955

Dete					Deily	Meen Flow	in Second-	Feet				
Dere	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 745	753 484 626 969 830	51 52 52 46 40	100 62 42 33 26	12 1) 10 9 7	SON NO						0 2 19 34	322222
6 7 8 9 10	142 94 85 94 519	33 29 26 23 21	20 18 17 15 14	4 3 1 1	2 2 3 4 4						38 31 22 11 7	2 14 9 34 45
11 12 13 14 15	380 334 174 92 141	19 17 16 16 15	14 14 13 13 12	4 3 4 5 5	43722	N O	N O	N O	N O	N O	7 7 8 18 16	44 48 44 39 32
16 17 18 19 20	853 792 728 607 8 <i>0</i> 6	14 53 126 80 49	12 11 10 10 10	6 6 6 7	2 1 1 0 0	FLO¥	F L W	F L O W	F L O W	F L W	8 10 14 13 10	22 17 14 12 10
21 22 23 24 25	1025 1000 995 958 822	38 30 26 21 17	13 19 22 22 22	12 52 20 13 10	0 0 1 2						86543	8 481 2050 1102 1805
26 27 28 29 30 31	164 102 81 67 58 56	16 16 118	19 20 19 20 18 13	8 6 6 6	2 22 4 22	_			_		3 2 2 1 1	1984 1824 1347 1819 1735 1648
Mean	478	37.9	21.7	8.4	2.5	0	0	0	0	0	10.3	523
c-Ft	29420	2102	1335	500	155	0	0	0	0	0	615	32130
eximum 1schar	Celender ge of recor	r yeer 274 rd 2740 c.	U c.f.s. D f.s. Decem	ecem er 23	1955 55				Totel Runoff in Acre-Feet		dar Yeer Yeer	66257 37178

ischarge of record 2740 c.f.s. Decem.er 23, 1955 in Acre-Feet Weter Year 37178
U. S. Corps of Engineers station located approximately 300 feet downstream from Farmington-Escelon roud. Station was moved to
this location in June 1952, from its former location approximately one mile upstream. The flows recorded by this station since
June 1952, include flows entering Littlejohns Creek via the Duck Creek diversion canel (Table 118). Period of record 1945 to date.
Records for 1955 computed by U. S. Corps of Engineers.

TABLE 120

FLOW OF LONE TREE CREEK NEAR MANTECA (AUSTIN ROAD) - 1955

Date					Deily 1	Meen Flow :	In Second-1	Feet				
Dece	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 3-45	12 143 135 88 43	1.7 1.5 1.3 1.2 1.0	0.3 0.1 0.1 0.1	9.0 10 11 16 14	32 28 24 *9.4 *17	12 13 6.4 9.2 7.7	5.1 3.7 2.4 11 5.2	2.4 1.8 1.3 1.6 0.6	3.5 4.1 1.4 0.9 1.3	5.1 5.6 11 12 14	2.1 3.3 6.2 3.0 3.5	0.2 0.7 4.3 2.5
6 7 8 9 10	18 9.0 5.9 4.9 46	0.00	000000	9.6 9.8 12 9.0 7.7	22 25 47 46 17	4.8 10 6.2 11 18	2.6 1.1 0.6 1.6 4.8	0.9 1.1 1.0 0.5 0.9	1.4 0.6 0.6 1.4 0.6	14 9.8 11 11	5.4 1.4 0.3 1.4 1.6	4.6 47 87 94 125
11 12 13 14 15	115 83 42 18 9.2	1.0 0.9 1.4 1.0 0.6	1.7 1.2 0.8 0.5 0.4	8.8 11 11 23 20	*5.7 *3.22 2.58	11 5.1 5.4 4.0 10	3.3 1.6 0.8 0.9 1.4	1.5 2.1 1.6 1.8 2.1	0.3 0.3 0.4 0.0 5.1	6.49 4.93 3.0 4.0	3.0 3.2 3.0 12 20	85 36 16 *9.6 *6.9
16 17 18 19 20	94 188 184 220 213	0.6 0.7 1.5 2.3 1.1	0.4 0.3 0.1 2.6 18	15 21 50 90 56	6.1 6.2 11 *16 *18	14 14 8.0 12 11	0.6 1.5 1.4 1.6 0.7	2.0 2.2 1.7 1.1 1.0	3.8 3.0 2.0 2.1 1.3	6.1 3.3 2.9 3.4 6.4	19 12 4.9 3.4 3.2	91359 *54359 *2
21 22 23 24 25	168 108 56 28 14	0.8 0.6 0.7 0.4	17 18 6.9 11 6.4	29 90 152 93 28	*8.3 *8.3 *12 *15 *15	15 18 15 9.8 6.2	0.7 0.4 1.0 0.5 0.6	0.6 1.8 2.2 2.0 2.3	2.1 12 13 21 22	5.6 6.2 12 11 9.2	2.5 1.0 0.4 0.3 0.1	2.6 3.0 167 286 332
26 27 28 29 30 31	8.8 5.4 3.3 1.7 1.8	0.4 0.4 0.4	10 12 8.4 9.6 5.6 6.4	*9.4 *6.9 *6.6 6.4 23	*10 *8.3 *16 *8.6 8.0 11	4.1 20 26 6.4	0.8 1.8 2.9 2.9 1.5 1.8	8.0 2.5 1.3 1.1 2.3 4.6	14 10 8.2 7.3 5.6	5.6 4.1 3.2 2.0 1.4	0.2 0.5 *0.3 0.2	368 365 358 304 176 132
Meen	66.7	0.9	4.5	28.6	14.9	10.6	2.2	1.9	5.0	6.	3.9	98.0
Ac-Ft	4103	50	275	1702	918	633	132	115	207	425	234	6027
Meximum Discher		r year 385	c.f.s. De	cember 20,	1955				tel Runoff Acre-Feet	Celeno Weter	der Yeer Yeer	14911 10498

In Acre-reat Water Year 10496 Division of Water Resources station located four when north and two miles east of Manteca et Austin Road Briage. Lone Tree Greek is un east-side tributary to the Sen Joequin River et Mile 40.1R via French Camp Slough. Period of record 1950 to date. • Estimated

TABLE 121 FLOW OF TEMPO CREEK NEAR MANTECA (JACK TONE ROAD) - 1955

Date	Dally Mean Flow in Second-Feet											
Date	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	13 56 73 49 27	2.1 1.8 1.3 0.9 0.7	000000000000000000000000000000000000000	9.3 11 13 12	9.3 3.0 3.3 2.7 3.1	0 0.7 2.5 0.1 0	0000	0000	7.1 0.4	4.3 4.7 12 11 12	1.0 0.0 7.4 4.9 5.5	0 1.5 1.2 #0 #0.2
6 7 8 9 10	13 7.1 5.0 4.6 25	0.7 0.5 0.4 0.4	0 0 0 0.6	8.4 8.3 11 7.1 7.1	¢.3 9.0 #23 #20 #20 #20	0 0 4.5 0	0 0 0 0	0 0 0 0	1.1 0 0	12 9-3 8-4 9-0 9-0	7.9 2.1 0.2 4.9 3.4	* 5.5 24 49 56
11 12 13 14 15	53 46 \$29 \$20 \$9.7	0.2 0.1 0 #0.1 #0.2	0.8 0.2 0 0	9.5 9.5 10 14 12	#0 #0 0 0	4.1 5.5 0.2 0.3 0	0 0 0 0	0.1 4.3 3.1 2.7 3.8	0 0 0.9 7.1	4.5 2.7 2.1 0 2.7	6.8 6.3 6.0 14 19	36 16 7.4 3.4 1.3
16 17 18 19 20	54 97 124 155 163	*0.2 •0.4 0.3 0	0 0 2.4 3.5	3.8 13 22 34 22	0.2 1.3 0.6 1.0 0	0 1.0 0 1.6 0	0 0 0 0	0 0 1.4 0	3.9 1.3	3.9 1.3 1.6 5.8	16 14 9.7 7.4 7.2	0.4 0.4 0.6 0.4 0
21 22 23 24 25	130 62 31 19 12	0 0 0 0	5.6 2.5 1.1 3.5 2.7	14 29 78 59 20	0 0 0 0	0 0 0 0	0 0 0 0	0000	1.9 16 16 24 22	3.5 5.6 7.0 7.2	5.4 2.3 0.6 0.6	0 7.1 194 275 237
26 27 28 29 30 31	8.4 6.1 4.1 2.7 2.3 2.7	0 0 0 	2550, L 3 442, 35, 6	8.1 5.4 5.6 5.8 15	0.8 0.8 0 0	0 0 0 0	0 0.3 0 0	0.1 0.9 0.1 1.9 3.5 0	14 11 0.0 7.0 4.3	3.9 4.2 3.5 2.1 0.7 1.3	1.4 1.2 0.7 0.6 0	289 230 270 31 143 87
Msan	42.1	0.4	1.6	10.4	2.8	0.5	0	0.8	4.9	n 5.3	5.4	74.5
Ac-Ft	2586	21	89	974	174	31	1.0	50	202	327	326	4583
Meximum Dischar	ge	year 293	c.f.s. Dec	sember 20,	1955				otel Runof: n Acre-Fee		dar Year Year	9463 6234

Division of Water Resources station located 5.5 miles northeast of Manteca at Jack Tone Road bridge. Tampo Creek is an east-side tributary to tha San Joaquin River at Mile 46.1R via Lone Trea Creek and French Camp Slough. Feriod of record 1,50 to data. a Estimated

TABLE 122

FLOW OF FRENCH CAMP SLOUGH NEAR FRENCH CAMP (SHARPS LANE) - 1955

Date	Daily Mean Flow in Second-Feet											
Dace	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	#225 #210 #195 #185 #180	*49 *47 46 42 37	67 53 38 30 26	18 21 18 20 21	27 26 22 15 14	18 16 10 6 24	7.4 1.0 0.2 0.3	0.1 0 0.2 0.1 0		0 0 0.3 6.6	1.1 0.4 0.8 3.5 2.2	0.4000
6 7 8 9 10	#174 160 157 155 434	32 20 28 23 22	22 19 17 18 17	17 18 20 18 17	17 20 29 29 17	10 10 14 2.6 3.7	0 0 0 0.1	6.1 1.1 1.4 2.6	<u>.</u>	9.2 5.3 6.3 6.3	2.7 2.2 7.58 8.0	2.2 25 76 74 91
11 12 13 14 15	462 406 281 198 195	20 20 20 1 - 18	16 16 15 15	13 18 13 15 15	75122	0.3 7.9 3.4 9.1 11	1.6 3.1 1.4 1.5 0.5	1.1 0.3 0.1 0.6	N O	4.5 1.4 1.0 0.2 0.1	5.4 5.2 5.0 15	73 14 18 12 0.8
16 17 18 19 20	*735 &792 *975 * \$7 \$2	18 18 82 71 48	13 14 14 12 18	16 17 38 67 45	66579	0.6 0 0	0.2	0.4 ⇔0.6 ⇔0.4 0	FL OV	2.7 1.8 0.0 7.0	21 14 6.8 c.3 c.3	7.2 6.2 3.0 3.6 2.8
21 22 23 24 25	1150 1000 1000 52 477	36 29 26 21 2	27 30 2, 33 30	20 56 52 30 18	7 3 2.5 3 2.5	000000000000000000000000000000000000000	0.5 0.4 0.4 0.4 0.1	0 0 0 0		10370	7.0 4.4 3.0 2.2 1.6	2.2 12 1390 1320 1560
26 27 28 29 30 31	*325 *644 *54 *54 *50	18 18 18	30 30 31 30 27 24	12 14 12 10 25	1.2 4 5 13 17	0 0 *1.0 *C.5	0 0 0.1 0.2 0.4	0 1.1 0.2 7.2 1.6 0		.6 1. 1.0	1.6 1.1 0.5	1380 1900 1550 1680 1610 1460
Mean	+37	31.3	25.0	<3.3	±€.€	4.4	0.7	0.6	С	3.2	5.0	.178
c-Ft	21,880	1740	1537	1388	651	204	45.5	37	U	106	297	2 400
aximum				December 27					tal Runofi Acre-Feet		iar Year Year	62405 34088

Division of water Resources station, sometimes referred to as Littlejohns Creek near French Camp, located 1.5 miles southeast of Prench Camp at Sharpe Lane bridge. French Camp Slough is an east-side tributory to the San Josquin River at Mile +0.1R. Dam placed in channel downstream from station affecting flows. Temporary recorder installed on June 10, 1955, downstream from dam. Period of record 1950 to date.

INFLOW TO MILLERTON LAKE - 1955

Doto	Deily Meen Flow in Second-Feet												
Dace	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
12345	1473 1387 1048 763 041	997 988 953 993 761	1077 1211 1140 1294 050	1628 1829 1728 1466 1369	2027 2098 1852 2279 2486	3357 2736 2552 3590 4225	2439 2330 2265 2247 2024	1268 1158 1198 1233 1153	1245 1281 360 926 692	445 276 509 671 714	657 800 779 760 242	1382 1052 438 565 654	
6 7 9 10	1088 930 1001 057 1092	764 784 814 940 903	821 1142 1145 1431 1574	1383 1376 1462 1613 2302	2599 3380 3135 2762 3050	5646 6327 6525 6737 6384	1880 1952 1985 1999 1480	1183 1080 1170 1368 1444	1144 1455 1390 1343 899	698 528 551 395 596	228 747 700 653 546	1235 1409 1228 1226 1105	
11 12 13 14 15	1135 1074 1164 1020 1043	961 -01 757 789 900	1345 1267 1236 1317 1801	2070 1940 2340 2416 2123	3368 4048 4520 3389 3251	5792 4470 3880 3424 3361	1714 1958 1951 1832 1700	1178 1285 1230 934 1210	686 1262 1170 1170 1144	621 668 707 714 352	605 375 363 664 615	597 992 814 1143 1169	
16 17 18 19 20	1213 1262 1477 1620 1280	1202 2000 1835 1386 1043	1804 1367 1437 1156 1015	2073 2134 1891 1660 1685	2077 2119 2700 32+5 4345	3139 2792 3038 2664 3018	1711 1861 1735 1639 1388	1230 1171 1243 1182 1203	706 788 341 1078 781	297 762 637 639 888	708 901 509 410 473	1266 933 652 1210 1706	
21 22 23 24 25	1374 936 952 955 1042	1017 1164 1058 1185 1103	1173 1227 1232 1238 1513	1008 2523 2260 e 2259 2461	4376 5500 5559 5232 3375	2914 2894 2699 2716 2452	1677 1613 1398 1415 1385	626 1173 1402 1235 1195	928 988 871 696 6382	754 361 260 560 825	695 929 579 290 305	1936 9451 61740 45674 17185	
26 27 28 29 30 31	830 1013 044 772 713 1007	905 950 1309	1555 1553 1551 1702 1640 1789	2493 2339 2249 2172 1890	3243 3356 4078 4620 5102 4397	2406 2584 2378 2470 2470 2437	1383 1302 1240 1354 1188 1174	1375 937 767 1167 1363 1171	606 328 718 750 664	798 694 656 492 400	340 409 638 786 828	11741 11368 7024 5599 4689 4983	
Meen	1079	1075	1347	1980	3489	3639	1717	1178	926	583	584	6521	
Ac-Ft	66369	59095	82816	117606	21/-506	216510	105576	72460	55156	35845	34778	400590	
Maximum Discher													

These quantities are the daily mean second-feet inflow to Friant Reservoir es computed by the U. S. Bureau of Reclamation, teking into eccount change in storece, release, spill, precipitation and evenoration; end ere representetive of the natural flow passing the dam site if the dam had not been constructed. Drainege eres is 1671 square miles. (b) 25-hour day.

TABLE 124

DAILY CONTENT OF MILLERTON LAKE IN ACRE-FEFT - 1955

Date				Stor	age at end	of day in	thousands	of acre-fee	t			
patto	Jan.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	231.9 234.4 236.3 237.6 239.2	292.9 294.8 296.5 298.4 299.8	336.2 338.1 339.8 341.8 343.1	305.1 303.3 301.3 298.8 296.2	331.0 333.9 336.5 339.9 343.7	459.9 461.9 463.3 465.8 470.4	484.3 481.5 478.7 475.8 472.5	350.6 344.0 339.5 334.8 329.9	199.8 196.2 191.8 186.8 181.9	138.3 137.5 137.3 137.3 137.3 137.2	139.1 139.8 140.4 141.1 140.6	160.5 162.5 163.2 104.2 165.4
6 7 8 9 10	241.2 242.9 244.7 246.4 248.4	301.2 302.6 304.2 305.7 307.2	343.6 344.1 344.5 345.1 346.0	293.6 291.3 289.8 289.0 289.0 289.6	347.7 353.3 358.7 363.2 368.3	477.5 485.7 494.0 501.3 508.4	468.9 65.5 62.2 458.8 454.3	325.1 320.1 315.5 310.3 304.0	178.0 174.6 171.2 168.0 164.2	137.0 136.6 136.4 135.8 135.7	140.2 140.8 141.3 141.7 141.7	167.4 169.8 171.9 173.9 175.7
11 12 13 14 15	250.5 252.5 254.7 256.7 258.6	308.4 308.9 305.4 310.7 311.8	346.0 345.5 344.8 343.0 343.4	290.2 290.4 291.5 292.8 293.7	373.8 330.6 388.0 392.7 396.9	513.1 514.6 514.3 513.3 513.3 512.3	1,50.3 446.7 442.8 438.7 435.1	299.0 293.6 238.3 282.4 277.0	160.5 158.5 156.4 154.5 152.8	135.6 135.5 135.5 135.5 135.5 134.8	141.8 141.4 141.1 141.5 142.4	176.4 177.5 177.6 178.2 179.0
16 17 18 19 20	260.9 263.2 266.0 269.1 271.5	313.2 318.4 321.5 323.5 324.9	342.5 340.6 330.6 335.9 333.0	294.6 295.7 296.4 297.1 298.1	398.6 1.00.3 1.02.9 1.05.9 1.10.4	511.1 509.8 509.2 507.3 507.0	631.4 428.1 424.5 425.0 414.7	271.8 266.5 261.4 256.3 251.4	150.5 148.6 146.0 145.0 143.4	134.1 134.4 134.4 134.6 135.3	143.7 145.3 146.2 146.5 146.5	180.5 182.2 183.3 185.4 188.5
21 22 23 24 25	274.1 275.9 277.4 279.2 281.2	326.6 328.1 320.9 329.5 330.3	330.2 327.5 324.9 322.2 320.0	300.3 303.7 306.8 309.7 313.2	415.3 421.3 427.1 432.1 433.6	505.6 503.9 501.6 499.7 498.0	410.0 405.3 400.1 395.0 389.7	245.3 240.3 235.7 231.1 227.1	142.5 142.3 142.0 141.5 140.5	135.9 135.8 135.5 135.9 136.7	149.0 150.7 151.7 152.1 152.6	191.9 210.3 332.6 421.1 446.2
26 27 28 29 30 31	282.7 284.6 286.4 286.4 287.8 239.2 291.1	331.5 332.7 334.7	317.7 315.3 312.9 311.0 309.0 307.1	316.7 320.1 323.2 326.0 32 ³ .3	434.8 436.6 440.0 45.1 1.51.5 1.56.7	495.9 494.2 492.1 490.0 487.1	384.3 378.7 373.0 367.5 361.9 356.2	223.6 219.3 214.6 210.7 207.2 203.4	140.0 139.9 139.5 139.0 138.7	137.5 138.0 138.2 138.6 138.7 138.6	153.1 153.8 155.0 156.4 157.0	457.5 468.1 470.1 469.2 467.1 467.1
Month15 Change	+61.9	+43.6	-27.6	+21.2	+128 . l	+3'2.4	-130.9	-152.8	-64.7	-0.1	+19.3	+309.2
		Annu Difí	al gein or Grences in	loss in s storege l	torege: 0 054 to 195	alender Yee 5: Meximum	r +237,900 s - 2,700); Water Yee); Minimums	r -4,200 -7,800	Acre-Feet Acre-Feet		

Period of record 141 to date. Records for 1955 computed by U. S. Bureau of Reclemation.

TABLE 125 FLOW OF SAN JOAQUIN RIVER BELOW PRIANT - 1955

Date					Daily	Mean Flow	in Second	-Feet				
Date	Jan.	Peb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	108 105 101 101 101	58 56 56 56	59 59 58 58 58	149 149 151 151 150	125 105 83 81 81	144 146 146 144 144	188 181 183 183 186	200 208 205 205 205	172 181 181 181 181	134 134 136 134 134	86 84 86 86 86	68 66 65 65 65
6 7 8 9 10	103 103 105 106 102	56 56 55 55 55	57 59 63 59 60	149 142 132 132 134	87 105 102 93 81	144 146 146 155 163	193 188 190 190 190	205 205 205 202 202	181 178 176 174 174	134 131 122 123 123	86 86 86 87	106 195 198 198 200
11 12 13 14 15	47 45 45 47 47	54 554 54 54 54	57 56 56 55 56	132 132 132 129 125	88 96 108 127 136	170 170 168 166 168	188 190 188 188 188	202 200 202 202 212	172 172 170 166 166	123 120 113 113 113	86 84 81 84 09	200 416 808 808 808
16 17 18 19 20	88 64 78 82 67	60 76 60 57 56	57 56 58 57 57	125 127 127 127 127	136 138 138 138 138	168 168 168 168 168 168	188 190 188 188 188	218 208 195 195 193	166 166 166 159 155	113 113 113 113 113 113	59 60 61 61	500 103 92 93 1+0
21 22 23 24 25	65 64 63 59 54	56 56 56 56	56 56 61 68 69	110 84 81 83 87	138 140 142 147 147	168 168 168 183 198	188 186 183 181 176	193 193 190 188 181	146 134 136 136 136	113 115 115 110 102	62 61 62 62 62	185 173 464 1520 4740
26 27 28 29 30 31	54 553 551 551 553 553	57 65 63	71 69 77 96 110 140	104 104 113 122 123	147 142 144 144 142 142 144	195 193 193 193 193	170 181 188 183 195 195	172 170 170 170 172 172	136 136 134 134 134	99+4+333 9953	62 63 63 63	6240 6210 6100 6050 5670 5070
Mean	73.5	57.3	65.4	124	121	167	187	195	160	115	73.1	1536
Ac-Ft	4520	3180	4020	7400	7460	9940	11470	11980	9520	7090	4350	94440
Maximum Dischar			c.f.s. De .f.s. Dece		Total Runoff in Acre-Feet		ndar Yesr r Year	175370 108380				

U. S. Geological Survay station located at Mile 200.13L and 1.5 miles downstream from Friant Lam. Drainage area is 10.5 square miles. Period of record 1938 to date. (Prior records available at sites 2.5 and 1.5 miles upstream.) Records for 1955 computed by U. S. Geological Survay.

7.5	BL	5	٦.	2	6	
τn		ĥe	+	<	U	

FLOW OF SAN JOAQ IN RIVER NEAR BIOLA - 1955

					Daily	Maan Flow	in Second-	Feet				
Date	Jan.	Feb.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	120 132 120 109 105	71 70 70 68 ⊬8	74 81 75 71 70	65 84 100 107 107	116 111 107 87 75	105 102 97 98 58	126 126 120 124 122	107 112 110 114 116	90 87 92 100 100	36 88 90 6.4 80	66 65 65 67	59 65 63 60
6 7 8 9 10	107 105 105 109 118	68 67 66 66 65	68 67 63 68	105 104 98 93 90	71 78 93 100 97	95 88 82 31 82	116 120 118 112 118	118 126 132 124 114	103 96 90 93 96	84 86 87 86 84	70 72 71 71 72	61 72 103 158 179
11 12 13 14 15	122 100 80 71 71	65 65 65 65 63	65 63 78 93 61	52 37 88 88 81	82 72 71 76 83	90 93 107 105 102	126 126 122 114 107	112 114 110 112 124	100 105 105 105 102	82 81 82 81 77	72 72 77 87 92	195 105 197 19 19
16 17 18 19 20	\$2 109 124 122 165	70 75 82 92 54	67 56 52 54 53	76 75 90 162 100	111 104 95 92	102 100 98 100 105	105 102 112 112 98	122 120 126 120 11	90 0 107 103	50 76 73 74 75	72 619 59	1110 954 356 143
21 22 23 24 25	132 105 93 87 81	75 68 65 63	4555 455 45	100 113 90 76 72	95 97 57 53 102	102 92 93 102 104	98 98 105 100 98	126 128 118 107 100	.8 90 37 31 8.4	80 81 82 82 82 81	60 57 55 55 57	130 190 262 1060 530
26 27 28 29 30 31	76 72 76 68 70 71	67 71 71	46 46 47 47 45	68 75 82 84 97	104 102 107 109 111 107	124 135 130 128 128	ς; 86 86 4 90 100	100 38 107 108 102 96	92 88 81 80 87	80 74 72 68 68 67	55755 5755 5555	6710 7120 7040 6820 6660 6040
Mean	100	19.8	60.1	RG.7	.5.1	103	100	11,		7: A	AC R	1710
Ac-Ft	615 (3 0	31 90	- 345	5 SC	^1 · · ·	6720	(real	054		30-	105700
Maximum Dischar		nt year a	i∪ c.f .f.s. Dece	December 2 mber 2 , 1	, 195; 9-5				Total Runof in Acre-Fee		dar Year Year	164-10 8- 50

U. S. Ge legical Survey and U. S. B read of Reclamation cooperative station i rated at Mile 236.LR and ...d siles downstream from Skergs Bridge. Dra'maps area is . OS agars m'les. This stat in is at a, r ximately the same loc till es a former Southern Callernia Ed's n Collary station from as Sen Jeag in River slow Sre, s Bridge for w. ch records are available for the period 1/27 through 1/30. Record, for this station available for m O ther 1972 to date. Records for 1955 conjuted by U. S. Geological S rvej.

TABLE 127 FLOW OF SAN JOAQUIN RIVER AT WHITEHOUSE - 1955

Dete					Daily	Mean Flow	in Second-	Feet				
Daro	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 745	77 81 83 73 67	39 37 37 37 36	35 40 40	3.0 8.0 21 36 45	44 62 59 51 48	41 35 30 29 28	43 46 42 33 37	14 24 28 22 26	20 16 14 15 1.9	18 19 20 22 21	11 10 10 10	8.0 12 14 19 19
6 7 8 9 10	64 64 73 81 89	35444 344 322	40 39 35 31 33	48 51 42 37	40 32 35 46 55	33 29 21 19 16	38 35 41 43 30	31 32 35 37 36	20 22 19 15 14	18 21 22 23 23	12 14 14 14 14	20 12 21 42 67
11 12 13 14 15	92 92 72 60 53	32 31 29 29 29	34 29 27 31 40	36 38 35 34 31	49 30 20 23 37	16 25 27 33 34	35 39 39 40 34	29 22 25 24 30	15 22 30 29 25	22 21 20 20 21	14 13 16 24 27	94 109 121 130 416
16 17 18 19 20	59 58 90 98 102	32 39 36 42 48	30 32 23 18 16	26 23 32 14 57	31 44 40 35 33	26 27 27 23 22	25 22 20 26 31	35 35 40 38	28 26 29 34	18 19 16 14 14	31 33 25 18 16	549 590 469 257 161
21 22 23 24 25	132 103 81 70 64	14 38 32 31 29	18 15 12 9.0 8.0	52 53 59 47 28	24 26 32 29 28	23 22 16 14 18	20 17 17 22 21	32 38 40 38 28	36 32 23 20 16	15 18 19 22 25	16 16 14 11 9	120 102 141 198 2350
26 27 28 29 30 31	58 54 518 48 48	33 33 35	7.0 7.0 5.0 4.0 3.0 2.0	28 20 20 30 37	35 35 35 31 31 35	18 35 44 45 46	17 15 12 9.0 12 13	214 214 22 28 30 26	17 22 24 21 16	23 21 17 15 14 12	9.0 7.0 8.0 8.0 6.0	4800 5300 5290 5220 5190 5060
Mean	74	35	24	36	37	27	28	30	22	19	15	1757
Ac-Ft	4532	1934	1474	2116	2291	1630	1734	1843	1319	1176	873	73192
Maximum Discher									Totel Runoff in Acre-Feet		dar Year Year	9411)4 44691

San Joaquin Canal Company station located at Mile 219.83R, below the head of Grevelly Ford Canal. Feriod of record 1901 to date. Records for 1955 computed by San Joaquin Canal Company.

TABLE 128

FLOW OF SAN JOAQUIN RIVER NEAR MENDOTA - 1955

Date					Deily	Mean Flow	in Second	i-Feet				
Dare	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12745	47 50 53 54 51	34 27 30 26	22 25 35 80	353 380 377 361 333	265 158 154 156 178	391 391 404 439 439	408 385 383 383 380	446 448 441 428 428	398 385 350 350 348	253 253 225 185 167	102 102 96 94 94	63 61 63 79 97
6 7 8 9 10	45 42 39 43 53	26 14 0 14 14	124 129 143 193 139	331 310 285 278 287	203 187 158 162 165	437 432 428 426 415	378 360 363 363 363	425 428 413 398 398	345 345 323 299 301	146 146 145 146 118	94 94 107 94 82	112 124 122 126 119
11 12 13 14 15	59 64 66 62 55	578 445 115 25 27	183 230 238 282 342	272 240 251 263 263	191 213 229 263 263	395 395 395 393 393 393	368 385 388 385 390	400 400 400 400	299 290 269 232 189	90 87 84 81 88	85 84 69 57	107 66 21 16 16
16 17 18 19 20	55 55 55 64 81	30 64 120 115 67	342 342 280 205 213	249 230 230 226 205	289 322 318 356 399	406 448 450 450 450	390 403 413 418 438	405 405 400 398	187 187 187 197 217	97 96 87 72 85	54 51 49 47 47	17 20 21 12 12
21 22 23 24 25	86 100 93 81 70	22 21 20 20 21	205 205 184 165 163	169 136 129 124 107	408 421 417 413 413	450 439 426 426 424	443 456 454 448 448	400 425 438 441 425	232 255 264 271 271	99 102 103 97 91	47 45 51 67 66	12 12 480 990 850
26 27 28 29 30 31	62 55 43 41 38	22 17 19	163 163 171 186 202 287	227 263 289 311 292	413 415 415 419 406 393	428 430 432 424 413	446 443 438 441 443	405 403 403 403 400 400	262 238 251 260 257	94 103 102 103 102 105	64 63 64 66 66	2930 4340 4860 5010 5060 5140
Mean	58.4	74.8	183	261	296	422	408	413	275	121	72.8	999
Ac-Ft	3590	4155	11252	15533	18173	25133	25079	25418	16381	7442	4330	61404
Meximum Dischar			0f.s. I f.s. June		Total Runof in Acre-Fee	t Wate:	nder Year r Year	217890 160447				

U. S. Bureau 5. Red and ion station located 2.5 miles below Mendota Dan at Mile 200.2L. Drainage area is 4310 square miles. Period of record 1939 to date. Records for 1955 computed by U. S. Bureau of Reclamation.

				TABLE	129				
PLOW	OF	SAN	JOAQUIN	RIVER	NEAR	DOS	PALOS	-	1955

Date					Daily	Mean Flow	in Second-	Feet				
pare	Jan.	Feb.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 745	58 592 66	че 42 41 40 39	0000000									00000
6 7 8 9 10	64 62 59 57 61	37 36 34 28 26	0 0 1.0 1.0									0 0 0 0 0 0
11 12 13 14 15	65 69 70 73 70	125 649 654 206 78	1.0 1.0 1.0 1.0	к о	N O	N O	N O	N O	м O	N O	N O	0 0 0 0
16 17 18 19 20	72 65 65 64 69	47 36 46 82 89	1.0 1.0 1.0 1.0 0	F L O W	F L O W	F L O W	F L O W	F L O W	F L O W	PLO:	F L O W	0 0 0 0
21 22 23 24 25	80 88 99 98 87	64 38 33 31 17	0 0 0 0									0 0 250 470
26 27 28 29 30 31	76 68 62 55 50 49	000	000000000000000000000000000000000000000	_		_			_			690 2190 3650 4430 4800 4900
Mean	67.9	91.6	0.4	0	0	0	0	0	0	0	0	690
e-Ft	4177	5086	22	0	0	0	0	0	0	0	0	+2+07
sximum ischar	Calenda ge of reco	r yeer 4930 rd 8200 c.1	c.1.s. De	scamber 31, 5,1952	1955				Total Runoff In Acre-Feet		der Year Year	51692 12516

U. S. Dureau of Reclamation station located 600 feet downstream from the need of Tample Slough at Kile 166.01. Drainage area is 5630 square miles. Feriod of record 1940 to date. Records for 1955 computed by U. S. Bureau of Reclamation.

TABLE 130

FLOW OF SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE - 1955

					Daily	Mean Flow	in Second-1	Feet				
Date	jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	111 132 182 328 352	305 296 285 271 259	179 226 250 226 194	97 96 97 93 96	208 255 305 328 328	221 227 234 242 251	161 153 147 147 146	111 112 112 111 103	130 137 140 129 137	80 82 74 70 68	27 33 31 31 29	44 40 44 43 +3
6 7 8 9 10	321 272 234 198 215	246 237 227 223 223	176 166 158 173 170	106 125 147 158 160	316 308 339 341 337	259 279 264 253 229	150 146 146 143 141	105 107 118 122 123	148 153 147 155 1c4	53 64 61 57 54	26 26 28 28 54	380 140 15 15 15
11 12 13 14 15	274 312 312 290 321	218 216 237 163 141	164 172 174 161 160	153 147 153 143 143	316 305 294 279 230	214 206 220 198 203	13 139 137 134 133	127 132 123 125 123	147 144 14 134 134	5533	3-3-3 -4-3 -5-7	52 76 73 43 39
16 17 18 19 20	343 375 573 811 951	371 337 312 283 248	157 150 148 155 166	151 150 155 176 147	216 220 220 215 212	215 213 206 204 215	126 122 122 133 130	112 115 123 125 115	137 132 113 111 110	- 14 414 415 45 45 45	No. 5 - 56	11 66 61 45
21 22 23 24 25	1140 1050 754 582 503	237 229 218 208 197	172 160 143 1.7 122	263 307 310 312 301	216 209 215 230 430	214 207 203 157 182	133 122 123 123 115	1.4 113 110 11,- 116	100 01 85 80	47 33 37 37	65 61 60 8	39 39 94 92. 2510
26 27 28 29 30 31	451 411 377 348 328 314	186 188 18.	120 115 114 103 102 100	279 253 221 20 144	220 220 230 220 230 230 220	172 15. 100 154 164	115 116 114 1.2 107 106	120 133 130 136 137 144	75 60 75 7	31 31 2140	58 27 340 1	490 3060 4250 4380 4370 4340
Mean	421	262	15	J	2.0	. 12	132	1.	1.4	47.9	47.0	940
c-Ft	26200	14570	97c)	1071	15	12040	8110	73 -	70	Ł	2120	5 7.
eximum		otal Runoff n Acre-Feet	Calend	dar Year Year	17t 340 124000							

U. S. de 1. : al Surve, U. S. Hiremu of Recla ation, and Division of Water Res.urces conjertive stat in located at nighwiy bridge in road between Gistine and Stovi.son, Mile 129.5 a over noith of San Joaquin River and 5.7 files have the confluence of the Marced River. Draina a area is 6090 equare files. Period of record 1937 to date. Records for 1955 conjuted by U. S. Geological Survey.

TALLE 131 FLOW OF SAN JOAQUIN RIVER NEAR NEWMAN - 1955

0					Daily	Meen Flow	in Second	l-Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12745	310 344 476 608 620	680 656 636 612 600	397 438 482 451 411	257 281 286 291 286	397 462 520 556 544	362 365 394 400 421	252 297 286 304 234	24 3 2145 219 203 183	274 269 267 255 252	183 187 180 176 161	136 140 140 140 138	180 180 176 180 185
6 7 8 9 10	584 508 462 431 438	580 560 540 532 516	384 362 356 368 368	284 297 304 304 313	512 5214 572 608 576	414 424 407 359 335	279 271 274 259 259	203 235 250 228 233	262 267 281 286 318	159 163 165 167 161	130 128 136 128 144	183 183 189 205 201
11 12 13 14 15	520 640 648 616 624	504 500 500 640 660	362 378 400 397 356	327 299 286 291 299	520 504 472 445 414	324 347 371 347 341	259 250 240 224 208	21,5 235 245 21,7 247	299 291 269 245 255	159 161 172 159 163	140 136 154 174 178	203 217 231 201 194
16 17 18 19 20	688 938 1280 1420 1750	596 552 536 500 476	332 324 321 353 397	307 307 356 404 451	391 378 353 353 329	332 332 359 344 365	224 226 217 250 264	238 226 231 238 228	274 267 252 264 247	169 189 178 174 169	176 180 183 180 183	194 206 222 206 204
21 22 23 24 25	1670 1570 1290 1060 952	448 445 434 424 414	362 378 327 299 297	532 644 640 612 560	332 341 350 368 365	365 335 321 297	247 224 221 226 238	226 238 212 222 224	222 208 102 198 187	159 161 157 161 159	189 185 185 187 189	204 206 248 2910 6270
26 27 28 29 30 31	898 894 835 768 732 701	400 404 400	267 262 259 245 245	504 465 404 365 359	353 353 350 362 387 378	289 274 269 262 250	250 243 224 208 208 208 224	231 245 259 281 284 284	180 174 169 167 176	152 154 154 146 134 136	185 185 187 183 187	8840 12100 15600 16700 16600 16300
Mean	815	527	348	377	431	345	2 ¹ 47	236	21µ2	163	164	3223
Ac-Ft	50120	29250	21430	551770	26520	20510	15200	14530	14410	10050	9730	198200
Meximum Dischar	ge of reco	r yeer 10, rd 33,000	600 c.f.s. c.f.s. Mar	December ch 7, 1938	29, 1955				Totel Runof in Acre-Fee		ndar Year r Year	432390 253700

10. S. Ge logical Survey and Division of Water Resources cooperative station located at Hills Ferry Bridge, Mile 123.7 above nouth of San Joequin River and just celow the mouth of the Marced River. Combine flow with Marced River Slough (Table 147) to give total flow pessing this point. Drainege area is 9990 square miles. Period of record 1912 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 132

FLOW OF SAN JOAQUIN RIVER AT GRAYSON (LAIRD SLOUGH) - 1955

0.1					Deily	7 Meen Flow	in Second	l-Feet				
Date	Jan.	Feb.	March	Apr11	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ことうして	415 485 575 610 690	935 900 855 820 790	525 530 560 590 575	470 410 370 370 400	500 540 565 615 640	440 410 415 400 425	265 255 325 390 410	255 220 240 165 165	315 315 315 315 320	300 300 320 290 270	235 235 240 240 240	300 300 300 295 290
6 7 8 9 10	735 710 660 630 615	770 745 715 715 700	535 510 490 490 525	370 355 390 410 460	590 590 685 745 735	480 440 415 390 340	365 315 285 310 300	150 195 250 230 210	310 300 280 295 315	260 260 270 300 300	245 235 235 230 230	310 305 310 320 335
11 12 13 14 15	660 740 880 815 815	675 660 650 660 785	545 545 585 590 570	505 440 380 380 360	670 605 580 505 510	300 305 345 350 310	315 285 270 240 245	205 210 210 245 250	385 400 335 320 295	295 290 290 300 290	230 230 235 250 270	330 325 340 350 330
16 17 18 19 20	840 1045 1270 1490 1765	815 760 705 670 630	475 445 450 450 490	365 400 480 535 550	440 385 365 365 610	280 300 315 380 390	210 260 260 250 235	250 245 245 240 250	285 320 355 380 325	380 350 340 315 300	285 290 300 305 300	315 310 315 340 340
21 22 23 24 25	1790 1755 1655 1485 1295	580 560 550 550 550	455 410 410 400 350	590 520 980 910 770	310 340 370 350 320	365 310 290 320 300	230 220 230 245 255	250 285 260 200 195	310 305 325 325 365	295 285 275 270 270	300 310 305 310 305	320 320 1050 1100 2000
26 27 28 29 30 31	1190 1150 1115 1065 1005 965	540 535 535	380 390 390 415 455 460	700 640 605 555 475	340 350 385 400 420 440	285 320 290 270 270	265 275 260 235 200 245	230 260 310 350 310 310	365 315 275 260 255	270 260 250 245 235	300 300 300 295	1900 2250 9400 14650 15400 15350
Mean	997	691	484	505	492	348	273	283	319	288	270	2261
Ac-Ft	61319	38390	29732	30040	30278	20727	16760	14658	19002	17722	11036	139041
Meximum Dischar									Totel Runof in Acre-Fee		ender Year er Year	433705 321487

Stat ... is maintained jointly by City of San Francisco (Hetch Hetchy Water Supply). Division of Water Resources, Modesto Irrigatic District, and Turlock Irrigation District. Station is at Laird Slough Eridge, Mile 96.05 above south of San Joaquin River a G five liss above the confluence of the Tuolumne River. High flows by-passing this station through old channel of San Joaquin River ere included in this Table. Feriod of record [5] to date. Records for 1955 computed by the City of San Francisco.

TABLE 133 FLOW OF SAN JOAQUIN RIVER AT HETCH HETCHY CROSSING - 1955

Data					Daily	Mean Flow	in Second	-Pest				
Dara	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	1155 1460 2510 1800 1760	1915 1780 1735 1575 1645	1495 1600 1540 1520 1510	420 480 515 550 585	715 770 780 800 805	10f5 885 545 630 625	385 380 420 510 535	345 315 280 270 255	480 490 500 480 490	520 550 590 550 525	595 630 845 910 920	930 955 945 945 945
6 7 8 9 10	1740 1640 1600 1515 2010	1605 1575 1645 2075 2160	1470 1360 1240 1240 1265	570 550 550 590 650	760 740 915 975 985	700 770 880 955 970	+85 455 410 415 445	270 305 370 365 290	450 420 390 400 ~30	520 515 520 530 570	920 860 715 710 620	950 995 1030 •1140 •1060
11 12 13 14 15	1735 1900 1800 1715 1680	2110 2105 2050 2010 2095	1315 1330 1370 1155 1010	720 660 595 605 590	905 805 725 660 655	930 8755 715 595 495	470 420 385 365 330	335 320 320 375 420	505 545 515 515 495	570 570 540 550 570	570 540 535 570 590	•1130 •1020 •1060 •1150 •1050
16 17 18 19 20	1735 2890 3030 3140 4060	2135 2080 2010 1990 1915	930 830 785 760 800	570 610 715 820 830	635 555 515 515 495	445 445 490 550 585	330 300 400 365 325	400 420 420 430 425	490 520 570 595 550	640 660 615 625 725	650 840 920 940 950	•1000 •1050 •1120 •1300 •1200
21 22 23 24 25	3370 3000 2785 2485 2160	1710 1650 1710 1650 1710	760 675 635 615 585	905 1075 1190 1165 1040	475 500 510 510 490	530 495 450 445 480	315 320 315 340 365	450 475 430 390 340	520 520 550 585 605	750 725 730 680 620	910 850 905 955 940	•1110 •1105 •2300 •12800 •23600
26 27 28 29 30 31	2085 2010 1980 1940 1880 1850	1575 1605 1580	525 520 540 490 450 20	980 935 875 805 705	620 540 590 610 730 975	460 475 445 415 385	350 360 350 325 305 330	360 400 420 500 485 480	620 570 510 500 500	020 705 710 715 720 670	885 900 925 855 920	• 20800 • 19600 • 26000 • 28400 • 21100 • 21100
Maan	2143	1840	992	728	686	62 8	383	376	510	61	796	6417
Ac-Ft	131742	102169	00972	43339	42169	37349	23534	23127	30367	3788-	47356	394582
Maximum Dischar									Total Runof in Acrs-Per		ndar Yaar r Year	974589 678318

Station is maintained jointly by City of San Francisco (Hetch Hetchy Water Supply) and Mivision of Water Resources. St to is at Mila 82.65 above mouth of San Joaquin Rivar and 2.9 miles above the confluence of the Stanislaus Rivar. Paried of record 1930 to date. Records for 1955 computed by the City of San Francisco.

TAELE 134

FLOW OF SAN JOAQUIN RIVER NEAR VERNALIS - 1955

					Daily	Mean Flow	in Second-	Faet				
Data .	Jan.	Feb.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 745	1710 2440 4020 31-0 2976	2420 2220 2200 2170 2050	2420 2690 2290 2030 1960	400 472 517 565 565	1150 1310 1330 1280 1190	3170 2630 1750 1420 1290	432 404 172 605 615	340 350 350 360	555 505 505 505 500	635 702 718 660 615	7 5 800 1040 1180 1210	1320 1400 1420 1420 1560
6 7 8 9 10	2000 2010 2570 2160 2260	2030 1960 1950 2460 2620	2150 2070 1930 1980 2030	600 535 512 590 729	1070 982 1240 1410 1370	1630 2190 2700 2970 3050	555 400 427 414 522	360 330 422 427 330	508 1472 1400 1409 1463	(35 650 685 724	1230 1170 970 928 534	1400 1420 1640 1780 1970
11 12 13 14 15	2520 2770 2670 2320 2230	2540 2510 2500 2300 2430	2200 2200 2410 2030 1980	830 756 670 605 620	1170 932 844 762 768	2930 2770 2190 1760 1420	540 458 400 396 340	330 312 304 350 470	575 670 505 555 575	762 773 718 535 756	718 696 729 773 312	1910 1800 1900 1850 1660
16 17 18 19 20	2230 3400 4100 4120 5250	2600 2510 2520 2630 2860	1880 1860 1690 1420 1280	560 650 886 1070 1140	736 625 522 526 517	1160 1010 916 016 910	350 384 453 422 360	427 458 430 463 424	570 620 718 773 670	839 928 856 22 940	874 1040 1210 1270 1270	1610 15°0 1520 1740 1730
21 22 23 24 25	4550 4060 3750 3220 2770	2760 26 0 2810 2770 2670	1140 934 828 795 740	1240 1500 1720 1740 1560	476 550 560 535 1200	795 630 620 595 650	340 330 330 350 3°2	535 590 504 458 376	640 650 670 670 7146	994 994 994 892 839	1210 1130 1190 1260 120	1910 2040 3210 15500 40400
26 27 28 29 30 31	6 50 2440 340 -310	21,50 21,70 21,50	665 635 530 445 1114	1430 1320 1230 1270 1160	2200 1580 1730 1710 2200 3020	615 605 540 411 158	31 0 360 360 3140 330 330	302 1440 508 610 610 515	812 751 655 640 620	122 1742 222 744	12 0 1300 1360 1270 1270	47400 39500 423 0 40000 37000 354 0
Mean	· • • •	2121	14/1	/17	1100	1 26	,110	131	1	76 3	1	10
Ic-Ft	a 430	131	45980	5	7 1 14L	50	256	204	36-70	4 15	0371	670800
aximum	Chienan ge of rec	r y ar rd "y,"	U. c.f.s. .f.s. Dec	Deer or	1, 1, 5				Total Runof in Acre-Fes		ndar Year - Year	750 0

This stati n'i maintaited j infly ty the Divisi n of Water Res press and 'e U. S. de losical S rve.. It is los ted it Durham Perry ridge, three files iel w to c filesce of to Stalista's River and is at Mile ', above file it. of the Ss. Joaq in River. Drainage area is 1,,010 sq are 'les. Forio' free rd.-22 to date. Records for 1055 co..ted by U. S. is logical S rve.

TABLE 135

FLOW OF LITTLE DRY CREEK NEAR FRIANT - 1955

Date					Daily M	lean Flow	in Second-F	'aet				
Date	Jan.	Fab.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dac.
1 2 3 4 5	0.8 14 3.0 0.7 0.3	4.7 4.2 4.1 3.8	10 9.0 7.8 7. <u>1</u> 6.6	1.7 1.5 1.4 1.3 1.3	3.3 3.5 2.7 2.1 1.9		0 0 0 0					1.4 1.4 0.1 0.1 0.1
6 7 8 9 10	0.3 0.2 0.3 31	3.7 3.4 3.4 3.4 3.4	6.1 5.5 5.5 5.5 5.3	1.2 1.1 1.0 0.8 0.7	1.8 7.4 7.8 4.5 3.2		0 0 0 0				000000000000000000000000000000000000000	0.5 0.7 0.5 0.5
11 12 13 14 15	7.1 3.0 2.2 1.8 1.8	3.4 3.3 3.0 3.0	4.7 4.4 4.0 4.0 3.8	0.6 0.0 0.6 0.6 0.5	2.2 1.0 1.0 0.7 0.5	N O	0 0 0.1	N O	N	N O	0 0 0 0	0.4 U.4 0.4 0.4 0.3
16 17 18 19 20	47 16 14 27 12	4.4 20 11 7.3 6.1	3.5 3.3 3.2 3.0 3.0	0.5 0.7 1.3 2.0 1.8	0.4 0.3 0.2 0.1 0	F L O W	0 0 0 0	F L O W	FLO W	F L O W	0 0.2 0	0.3 0.3 0.4 1.1 1.5
21 22 23 24 25	9.0 7.6 6.6 6.0 5.5	5444	2.7 2.6 2.7 2.7 2.7	1.8 4.2 4.0 2.2 1.8	0 0 0 0						0.2 0.2 0.1 0 0.1	1.1 32 849 1250 601
26 27 28 29 30 31	5.3 5.4 4.7 4.7 5.7	5.0 14 26	2.7 2.7 2.4 2.0 1.8 1.7	5.0 5.2 3.0 2.2 2.3	0 0 0 0 0	_	0.1 0.1 0.1 0.1 0.1 0.1				0 0 0 0	323 310 155 117 95 161
Maan	8.3	2	4.3	1.8	1.4	0	1-	0	0	0	0	126
Ac-Ft	511	341	262	105	89	0	1	0	0	0	2	7750
Maximum Dischar	ga of racord	year 1760 1810 c.f	c.f.s. Da s. Januar	cam er 24, y 25,1952		Total Runoff in Acra-Fast		dar Yaar Yaar	9061 1309			

U.S. Geological Survey and U.S. Eureaun' Reclamation cooperative station located four miles above the mouth. Little Dry Craek enters the San Joaquin River at Mile 204.0L. Drainage area is 58 squaremiles. Period of record 1937 to date. Records for 1955 computed by U.S. Geological Survey.

Data					Dally	Maan Flow	in Sacond-	Faet				
Date	Jan.	Fab.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	56 161 78 53 45	63 63 57 52 49	103 94 89 83 78	72 74 74 69 69	135 152 133 122 122	105 96 39 8? 88	23 22 20 20 20	4.7 3.0 2.0 1.0		0 0 0 0	2.7 2.7 3.3 3.3	23 550 24 19
6 7 8 9 10	40 36 33 32 60	50 49 48 49	75 70 70 76 112	66 64 57 64 69	122 176 312 238 195	88 89 88 83 76	20 19 16 16	0.5 0.5 0.2 0.1 0.1		0 0 0 0	3.3 3.1 2.9 2.9	54 117 68 61 37
11 12 13 14 15	60 46 40 37 35	46 48 48 50	94 89 83 76 74	70 69 69 70 70	172 156 148 139 133	75 72 64 60 57	15 15 14 12 12	0.1 0 0 0 0	N O	0 0 0	9.8 9.8	54 37 31 28 25
16 17 18 19 20	123 107 147 188 125	55 129 144 19	68 63 60 59 57	69 72 84 86 81	127 113 116 118 123	55 50 46 42	9.6 5.6 10 9.6 8.0	0 0 0 0	F L W	0 0 0 0	7.8 12 16 15 14	23 21 20 62 149
21 22 23 24 25	101 88 80 75 70	70 64 59 57 55	50 55 53 53 53	30 174 141 120 107	125 125 123 123 118	37 34 33 30 30	8.8 -0 7.4 7.4	0 0 0 0		0 0.8 1.5 1.6 2.0	19 39 30 20 16	171 784 10400 7350 2850
26 27 28 29 30 31	69 64 57 57 64	56 94 152	50 57 60 63 72	146 152 125 119 116	112 107 105 105 105 103	2 } 27 27 26 2)4	-41 2 ?? -44.2 		_	2.2 1.3 1.8 2.0 2.5 2.7	14 13 13 14 15	1940 2360 1090 734 534 922
Mean	73.	67.2	51.3	90.6	139	58.2	12.2	0.6	0	0.6	10,-	972
Ac-Ft	4540	3730	4390	5390	0540	3470	753	34	0	37	630	59770

TABLE 136

FLOW OF FRESNO RIVER NEAR DAULTON ~ 1955

Discharge Gilehar year 1,500 c.f.s. December 23,1955 Discharge of record 17,500 c.f.s. December 23, 1755 U. S. Geological Survey and U. S. Bureau of Reclamation cooparative station located five miles southeast of Daulton. Drainage area 270 square miles. Fresco River is an east-side tributary to the San Joaquin River at Mile 184.08. Period of record 1941 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 137 FLOW OF CHOWCHILLA RIVER AT BUCHANAN DAM SITE - 1955

					Daily M	ean Flow i	n Second-F	eet				
Date	jan.	Fab.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	241 143 112 63 45	43 47 41 37 33	71 66 70 71 64	21 21 20 19 20	92 146 95 74 4 3	16 17 15 14 13	1.4 1.1 1.0 0.8 0.7				000000	5.6 23 18 11 8.7
6 7 8 9 10	37 33 26 46	32 30 29 28 28	60 56 54 55 70	19 19 18 18 16	56 75 236 130 98	10 8.7 7.8 7.1 6.1	0.00				0 0 0 0	79 130 43 38 44
11 12 13 14 15	47 36 32 20 20	28 26 26 26 26 26	57 52 1,8 4,3 41	16 15 15 15 15	79 65 57 51 48	9779.0 ••••	0.1 0.1 0 0 0	N O	N O	0 N	0 0 0 0	26 18 15 12 11
16 17 18 19 20	174 112 119 156 95	2c 8 60 44 37	38 37 34 33 32	15 16 23 46 38	45 43 40 37 33	6.1 5.9 5.2 4.8 4.1	0 0 0 0	F L W	P L O W	F.L OW	0 0 0	9.7 9.1 8.7 149 379
21 22 23 24 25	71 59 54 50	33 30 29 29 29	30 29 28 27 26	38 178 109 64 51	30 28 26 24 24 24	3.6 3.0 2.7 2.4 2.2	0 0 0 0				0 0 0 0	209 2450 18400 8110 2450
26 27 28 29 30 31	50 47 44 41 41 41	29 148 104	26 20 25 24 24 22	79 118 79 64 60	23 21 20 18 16 15	2.1 2.0 1.8 1.6 1.5	0 0 0 0 0		_		0.4 1.5 1.7 1.8 2.9	2190 2520 659 491 646
Maan	79.3	37.0	43.3	41.7	58.3	6.4	0.2	0	0	0	0,2	1295
\c-Ft	± 170	2060	2660	2480	3590	382	14	0	0	0	14	79640
Maximum Cale:dar year 30,000 c.f.s. December 23,1955 Total Runoff Calendar Year											95710 17208	

U. S. Geological Survey and Division of Water Resources cooperative station located five iles west of Raymond. Drainage area 2) square miles. Chowchilla River is an east-slip tributary to the San Joaquin River at Mile 151.08. Period of record 0: disr, 1921, to September, 1923: October 1930 to date. Records for 1955 completed by U. S. Geological Survey.

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- 2.0	2010	<u> </u>	+	Э	U

FLOW OF SALT SLOUGH NEAR LOS BANOS - 1955

Data					Daily	Maan Flow	in Second-	Feet				
Data	jan.	Fab.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
コンターサン	38 435 41 37	82 81 79 76 75	69 67 77 66 60	69 74 79 95 108	95 101 103 107 100	120 122 123 130 127	116 107 113 112 116	110 108 103 10 ¹ 4 110	128 132 130 130 130	69 65 66 63	35 32 32 32 32 31	34 36 36 36 36
6 7 8 9	37 37 37 40 47	75 74 75 75 77	552 52 50 50	111 114 122 117 111	94 95 99 99	125 124 114 105 115	117 116 119 118 115	115 119 117 117 122	136 133 134 114 130	60 59 57 55 53	34 34 32 34 34	356 366 380
11 12 13 14 15	66 55 52 52 52	79 81 80 79 78	50 60 72 66 71	10ć 107 106 110 109	95 95 94 86 83	117 119 120 122 122	113 113 115 120 116	122 120 111 107 108	127 120 115 119 121	52 51 43 46	36 38 38 38 38 38	40 41 42 49
16 17 18 19 20	55 68 77 82 95	61 83 85 84 82	76 70 85 96 101	103 105 110 105 106	37 90 94 99 106	122 122 123 121 122	112 116 118 122 121	115 113 114 116 117	114 108 107 97 90	46 47 44 43	38 38 38 37 36	40 43 42 42 30
21 22 23 24 25	99 98 97 97	30 7 76 75 74	93 2 73 79	107 109 102 97 85	109 115 116 117 119	122 117 115 114 110	115 112 111 108 107	112 114 115 119 124	86 86 03 79 75	42 40 33 34	37 36 36 36	38 40 57 101 135
26 27 28 29 30 31	99 97 93 6 3	71 71 70	77 76 66 75 7	77 69 76 79 81	121 122 118 116 116 116	107 114 113 122 122	105 103 99 93 91 106	129 130 130 125 132 132	71 69 60 (7 71	34 34 34 34 34 34	34 34 33 33 33	153 407 454 506 ~21 519
Mean	' 7.1	77.9	70.1	94.5	103	119	112	117	117	47.0	35.2	120
Ac-Ft	1.1.1	4 - 0	431	300	637	70 0	6370	1190	6340	<¥30	2090	7380
Maximum Dischar	n Calenda: nge of reco:	r year 5-5 rd llul.	.f.m. De f.e. June	combor 2.	1955				Total Runof in Acre-Fee		dar Year Year	64880 58840

". S. de logical S rvey and U. S. Bureau of Reclamation cooperative station located at San Luis Ranch approximately seven miles a rt. of Loe Balon. Sult Slough is an overflow channel of the San Joaquin River. Period of record bull to date. Records for 1/55 c juted by U. S. Gerlogical S rvey.

~					Daily	Mean Flow	in Second-	Feet				
Dete	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
こちょう	84 409 143 48 26	17 17 18 17 15	90 65 53 48 41	6.0 6.0 6.0 5.0	21 56 54 36 28							00000
6 7 8 9 10	20 14 14 12 13	14 14 13 12 12	34 295 25 20	5.0 5.0 5.0 4.0 4.0	22 23 46 50 36							6.0 69 30 15 24
11 12 13 14 15	14 20 17 14 14	12 12 11 11 11	20 17 16 14 13	3.0 3.0 3.0 2.0 2.0	29 23 18 15 14	N O	N O	N O	N	N O	N O	14 6.0 5.0 3.0 2.0
16 17 18 19 20	57 98 116 252 126	11 13 16 16 15	13 12 11 11 10	2.0 2.0 3.0 7.0 14	12 11 10 9.0 8.0	F L O W	F L O W	F L O W	F L W	FLOW	F L O W	2.0 2.0 1.0 26 148
21 22 23 24 25	68 51 41 35 31	14 13 12 12 12	10 10 9.0 9.0 9.0	14 13 31 24 16	7.0 6.0 5.0 5.0							136 337 1194 4518 1640
26 27 28 29 30 31	28 24 22 20 18 17	11 12 135	8.0 8.0 8.0 7.0 7.0	14 30 32 23 19	5.0 4.0 4.0 3.0 3.0	_			_		_	996 1145 990 970 940 905
Mean	60	18	21	10	18	0	0	0	0	0	0	456
Ac-Ft	3701	986	1303	613	1136	0	0	0	0	0	0	28015
Meximum Discher	calend ge of rec	ar year 61 ord 6020 d	20 c.f.s. 1 c.f.s. Decer	December 21	1, 1955 955				Total Runoff in Acre-Feet	Caler Water	ndar Yeer Year	35754

U. S. Corps of Engineers station located 1.5 miles downstream from Maripose Dam. Maripose Creek is an east-side tributary to the San Joaquin River between Dos Pelos and Fremont Ford. Drainage area is 108 square miles. Period of record 1952 to date. Records for 1955 computed by U. S. Corps of Engineers.

TABLE 140

FLOW OF OWENS CREEK BELOW OWENS DAM - 1955

Data					Deily :	Mean Flow	in Second-	Feet				
Date	Jan.	Feb.	Merch	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ちょう ちょう	34 21 7.0 4.0 3.0	7.0 7.0 7.0 6.0	5.000 4.000 3.000 3.000	1.0 1.0 2.0 2.0	6.0 6.0 3.0 3.0							2.0 2.0 1.0 1.0
6 7 8 9 10	3.0 3.0 3.0 4.0 6.0	6.0 6.0 5.0 5.0	5.0 5.0 5.0 5.0 5.0	2.0 1.0 1.0 1.0 1.0	3.0 4.0 8.0 6.0 4.0							3.0 5.0 3.0 3.0 3.0
11 12 13 14 15	6.0 4.0 3.0 3.0 3.0	5.0 5.0 4.0 4.0	2.0 2.0 2.0 2.0 2.0	1.0 1.0 1.0 1.0	3.0 3.0 3.0 2.0 2.0	N O	N O	N O	N O	N O	N O	2.0 2.0 2.0 2.0
16 17 18 19 20	52 18 47 40 14	5.0 5.0 4.0 4.0	2.0 2.0 2.0 2.0 2.0	1.0 2.0 5.0 6.0 5.0	2.0 2.0 2.0 2.0 2.0	F L O W	F L O W	F L O W	F L O W	F L O W	F L O W	2.0 2.0 2.0 2.0 2.0
21 22 23 24 24	10 8,0 7.0 6.0 6.0	4.0 4.0 3.0 3.0 3.0	2.0 2.0 2.0 2.0 2.0	5.0 5.0 4.0 3.0	2.0 2.0 2.0 2.0 2.0							3.0 43 151 365 239
26 27 28 29 30 31	6.0 5.0 5.0 5.0 5.0	4.0 8.0 13	2.0 2.0 2.0 2.0 2.0 2.0	4.0 5.0 4.0 4.0	2.0 2.0 2.0 2.0 2.0 2.0							184 222 167 167 165 161
Mean	11	5.0	2.0	3.0	3.0	0	0	0	0	0	0	62
Ac-Ft	686	296	139	157	182	0	0	0	0	0	0	3790
Meximum Diecher		r year 590 rd 5 90 c.f	c.f.s. De .s. Decemb	cember 24, er 24, 1955	1955				Totel Runoff in Acre-Feet		nder Yeer r Yeer	5250

U. S. Corps of Engineers station located one-fourth mile downstream from Owens Dam. Owens Creek is an east-side tributary to the Sen Joaquin River between Dos Pelos and Fremont Ford. Dreinage ar-a is 25.0 square miles. Feriod of record 1950 to date. Records for 1955 computed by U. S. Corps of En incers.

Date					Daily	Mean Flow	in Second-	Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	002.	Nov.	Dec.
12 7-25	230 141 37 20 0	23 28 23 21 18	26 18 14 11 9.0	0.5	3.0 4.00 5.0							000000
6 7 9 10	0 0 16 109	16 15 13 13	7.0 6.0 5.0 5.0 3.0	0.5 0.4 0.3 0.2 0.1	4.0 4.0 3.0 4.0							6.0 2.0 1.0 5.0 1.0
11 12 13 14 15	41 23 17 14 23	10 9.0 9.0 8.0 7.0	3.0 2.0 2.0 2.0 1.0	0.1 0.1 0.1 0.1 0.1	4.0 4.0 3.0 2.0 1.0	N O	0 N	N O	N O	0 N	N O	C 0 0 0
16 17 18 19 20	526 169 346 220 93	7.0 10 11 11 8.0	1.0 1.0 1.0 1.0 0.9	0.1 0.1 0.1 0.1 0.1	1.0 0.8 0.5 0	F L O W	P L O W	F L O W	F L O W	F L O W	F L O W	0 0 0 1.0
21 22 23 24 25	64 48 38 33 32	3.0 6.0 5.0 4.0	0.9 0.8 0.8 0.8 0.8	0.5 0.6 0.7 1.2 1.4	0 0 0 0 0							1.0 310 1873 2360 2039
26 27 28 29 30 31	30 29 28 26 24 24 24	6.0 20 64	0.8 0.8 0.7 0.6 0.5	1.8 1.6 1.5 1.5 3.0	000000000000000000000000000000000000000	_						1848 1809 764 153 105 109
Mean	77	14	4.0	0.6	2.0	0	0	0	0	0	0	369
c-Ft	4762	764	252	37	11ē	0	0	U	0	0	0	22705
aximum iachar	ga of reco	r yaar 2590 rd 2590 c.1) c.f.s. De C.s. Decem	en 24, 195	511				Total Runoff in Acre-Feet	Calen: Water	dar Year Yeer	28630

U. S. Corps of Engineers station locate: --half mila downstream from Burns Dam. Eurns Creak is an east-side tributary to the San Joaq in River batween Dos Palos and Fremont Ford. Drainage area is 73.8 square miles. Period of record 1250 to date. Records for 1955 computed by U. S. Corps of Engineers.

Date					Daily	Mean Flow	in Second-	Feet				
Date	Jan.	Feb.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	• 0 68 54	42 49 46 44 41	81 36 23 17 15	3.0 3.0 3.0 3.0 3.0	59 117 38 20 15							0000
6 7 9 10	47 42 44 44 44	3 9 38 36	12 10 10 9.0 9.0	2.0 2.0 2.0 2.0 2.0 2.0	11 12 39 32 19							74 164 80 75 85
11 12 13 14 15	44 49 44 39	N O	8.0 7.0 7.0 6.0 6.0	2.0 2.0 2.0 2.0 2.0 2.0	15 11 9.0 8.0 7.0	N O	N O	N O	N O	N O	N O	55 50 40 35 30
16 17 18 19 20	179 178 237 280 142	R C O R	6.C 7.0 4.0 4.0 4.0	2.0 2.0 3.0 5.0 4.0	6.0 6.0 5.0 4.0 4.0	F L O W	F L O W	P L O W	P L O W	F L O W	F L O W	30 25 25 27 184
21 22 23 24 25	102 84 74 66 61	D	4.0 3.0 3.0 3.0	6.0 6.0 7.0 7.0 6.0	3.0 3.0 3.0 3.0 2.0							132 691 2204 3309 1731
26 27 28 29 30 31	58 55 50 4 4 4 3	=	 3 3 3 3 3	6.0 14 9.0 9.0 9.0	2.0 2.0 2.0 2.0 2.0 2.0	_			_		_	1555 1490 11ct 332 150 115
Meen	"3		10	4.0	15	0	D	0	0	с	0	4649
lo-Ft	4489		623	2.2	918	0	L	0	10		0	27479

TADLE 142 PLOW OF BEAR CREEK BELOW BEAR DAM - 1955

U. S. C rps . E in ere etc' n ceted et .t rating ox if dem. Bear Groek is an eest-side 'ributary to the San Joaquin River etwee' Dos Falls a . Fre .' F r. Perioi ' record 195 . Records for 1955 cm, ted 5 U. S. Corps of Engineers.

			TABL	Е 1	43		
FLOW	OF	MERCED	RIVER	AT	EXCHEQUER	_	195

Date					Daily	Mean Flow	in Sacond	-Feet				
Date	Jan.	Feb.	March	April	May	Juna	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	540 433 46	51 51 51 51 51	49 50 50	1480 1510 1500 1500 1560	472 431 434 434 479	1,20 1770 1740 1740 1750	1630 1600 1590 1610 1680	1800 1300 1790 1790 1340	1500 1510 1510 1520 1540		41 32 30 31 34	50 51 55 49
6 7 8 9 10	40.2 5.2 5.4 5.4 5.4	51 52 52 52 52	50 50 50 50 51	1540 1460 1490 1560 1600	538 263 57 68 136	1750 1750 1740 1760 1830	1670 1700 1760 1790 1790	1840 1800 1770 1760 1750	1570 1590 1590 1580 1620	44 49 53 53 53	34 34 35 37 37	55 508 48 49
11 12 13 14 15	53 51 51 52 53	52 52 52 52 52	51 51 51 51 51	1590 1560 1540 1520 1520	301 400 651 710 980	1870 1880 1900 1350 1800	1760 1760 1310 1340 1830	1760 1760 1730 1700 1690	1650 1680 1670 901 65	53 51 50 50 49	38 30 140 140	50 51 52 52 53
16 17 18 19 20	61 57 63 58 57	53 52 52 52 52	51 51 50 50	1490 1350 1080 398 870	1170 1350 1460 1500 1520	1770 1740 1730 1760 1770	1850 1850 1880 1880 1880 1970	1690 1650 1630 1570 1560	51 53 57 57 54	46 46 53 55	43 45 46 48	53 52 49 45
21 22 23 24 25	54 53 53 53 52	52 52 43 50 45	51 48 588 720 770	604 338 317 343 374	1570 1650 1710 1310 1340	1770 1750 1730 1730 1730	1850 1310 1910 1780 1770	1560 1560 1580 1570 1560	40 42 42 42 42	51 51 51 50 49	48 50 53 54 50	51 65 122 6920 8980
26 27 28 29 30 31	52 51 51 51 51 51 51	44 49 49	785 992 1150 1200 1240 1350	395 446 632 816 720	1790 1690 1650 1730 1810 1830	1740 1730 1710 1660 1680	1730 1830 1820 1320 1790 1790	1540 1540 1530 1510 1470 1470	42 42 43 43	48 48 46 46 45	45 46 48 48 48	8980 9490 9110 8980 8320 6340
Mean	52.2	50.0	319	1120	1049	1765	1775	1664	740	48.5	42.0	2205
c-Ft	3010	202	1.040	66650	6450	105000	109200	102300	44030	2980	2500	135000
aximum ischar		46,200 c.	0 c.f.s. 1 f.s. Dacer	December 2 Noer 4, 19	7, 1,55 50				Fotal Runoff in Acra-Feet		dar Yaar Year	658430 528570

U. S. Geological Survey and Merced Irrigation District cooperative station located 0.5 mile downstream from Lake AcClure. Dr.inage area is 1035 square miles. Poriod of record 1922 to date. (Prior records available at a site one mile upstream.) Records for 1955 computed by U. S. Geological Survey.

Date					Daily M	iean Flow i	n Second-F	eet				
Dare	Jan.	Feb.	Mərch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ことうして	112 83 47 36 32	17 18 23 23	27 26 25 24	26 14 12 11 10	52 39 33 34 36	20 16 13 12 10	8.8 6.2 5.8 6.6 7.1	14 13 12 12 14	12 8.8 9.4 10 12	1.4 1.2 1.2 1.2	1.4 1.2 1.2 1.2 1.4	4.6 5.0 3.8 3.1 3.5
6 7 8 9 10	3334 334 344 67	22 235 255 23 23	14 11 8.8 8.3	12 13 14 11 37	49 43 37 21 14	14 14 14 9.4 6.6	5.8 6.6 7.7 13	20 20 28 19 12	13 14 18 18 13	1.2 1.2 1.2 1.0 0.3	1.4	6.2 7.8 8.3 4
11 12 13 14 15	40 37 29 27 31	31 28 30 31 29	10 11 10 12 14	142 143 38 314	10 8.3 5.4 6.6	8.3 0.4 7.7 12 20	20 23 24 23 34	12 14 15 15 17	18 25 33 34 18	1.0 1.0 1.0 0.8 0.6	2.0 2.0 3.1 4.2 3.5	10 9.4 9.4 8.8 9.4
16 17 18 19 20	200 91 130 114 64	29 23 24 26 27	14 14 14 12 12	56 59 121 112 82	11 10 10 14 24	21 17 15 10 20	36 36 33 33 31	19 20 14 14 23	21 7.7 5.4 3.5 2.7	0.6 0.6 0.8 0.8 1.2	444 45 4 5 4 5 4 5 4 5 4 5 4 5 8	10 11 10 9.4 8.8
21 22 23 245	54 47 44 61 *138	27 28 29 29 27	11 11 10 6.6 6.6	71 36 25 2 31	10 12 14 15	19 17 18 20 19	30 36 26 22 19	10 10 9.4 13 13	2.3 2.0 1.8 1.8	1.2 1.4 1.4 1.0 1.8	4.2 2.7 1.6 1.0 1.0	6.6 43 4430 9080 11000
26 27 28 29 30 31	*117 *32 *18 *12 *11 _14	27 30 28	12 18 23 36 34 32	18 17 17 47 47	16 30 21 18 21 24	20 24 23 20 18	18 21 27 25 23 15	15 10 21 37 22 15	1.8 1.6 1.4 1.4 1.4	2.3 3.3 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	1.6 2.3 2.7 2.5 2.5	10100 9800 9030 8950 8870 7260
Mean	j~+1	26.0	16.2	37.5	21.0	16.1	20.8	16.2	10.6	1.3	2.5	2540
le-Ft	31-32	1446	995	2731	1294	961	1276	996	633	30	148	150100

TABLE 144 FLOW OF MERCED RIVER BELOW SNELLING - 1955

Discharge of meords 26,000 c.f.s. December 4,1950 Division of Water Resources station located at Merced-Shelling Lighway bridge Mile 42.1 above mouth. Period of record 1930 to date. 4 Estimated.

Date					Daily	Mean Flow	in Second-	Feet				
0000	Jan.	Feb.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	117 462 284 186 148	111 110 112 124 118	108 108 99 97 97	88 88 82 79 70	112 121 112 103 97	70 78 72 60 54	62 57 53 50 50	75 62 61 61 60	84 78 73 67 62	45 48 51 56	49 50 52 54	74 79 80 80 80
6 7 8 9 10	135 129 126 128 138	108 103 104 103 100	92 90 87 90 90	74 74 73 70 67	97 107 117 111 102	55 52 51 50 49	48 45 42 44	62 70 70 80 80	60 69 78 86 88	53 52 52 51 51	54 53 51 46	814 88 93 93 90
11 12 13 14 15	211 183 150 131 126	99 103 104 102 100	88 85 855 87	 ?0 ?6 ?9 81 85 	94 85 78 74 75	51 53 55 51 52	52 50 50 58 57	73 66 65 64 67	88 88 93 90 90	51 51 50 49	50 55 52 55 55 57	85 84 84 82 81
16 17 18 19 20	386 871 409 928 427	102 103 100 100 100	87 87 86 88 85	87 98 164 196 169	74 69 66 63 65	62 62 53 55 56	57 65 73 73 67	69 72 75 73 70	87 88 86 70 64	50 50 49 49	59 61 63 62 61	82 84 85 88 96
21 22 23 24 25	280 216 188 169 209	100 99 99 100 97	82 80 76 76 75	162 151 121 107 98	68 64 61 65 66	52 53 47 47 50	62 63 69 73 75	72 74 72 72 74	59 56 54 53 54	49 50 50 50	63 63 62 65 64	91 94 3200 7090 10200
26 27 28 29 30 31	264 214 145 126 118 114	94 99 104	74 75 76 78 84 90	99 94 86 86 96	70 68 65 84 80 76	51 55 55 56 60	65 64 72 81 82 80	78 798 785 98 97	545585455	549999 4444 444	66 67 69 73 73	10200 11700 10900 10500 10300 9160
Mean	249	104	86.7	99.1	83.5	55.6	60.7	72.7	70.3	50.1	58.2	2752
Ac-Ft	15310	5748	5330	5895	5135	3306	3731	4471	4185	3082	3461	169200
Meximum Dischar	Celende ge		300 c.f.s.				27 6 8004		Total Runoff in Acre-Feet	Water	der Yeer Yeer	228854 66457

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

TABLE 146

FLOW OF MERCED RIVER NEAR STEVINSON - 1955

Date	-				Deily	Mean Flow	in Second-	Feet				
10000	Jan.	Feb.	Merch	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1 2 3 4 5	156 175 358 296 244	200 191 190 191 199	168 174 173 165 165	124 154 166 177 160	192 210 214 212 186	127 135 137 149 144	82 114 127 143 105	127 120 100 76 72	147 142 130 124 130	96 105 92 107 89	96 95 95 95 95 95	120 123 120 126 129
6 7 9 10	216 198 187 182 184	191 181 174 173 169	162 160 160 157 160	148 149 150 133 149	177 191 214 216 191	130 123 115 90 80	110 108 111 102 110	103 130 132 106 113	126 132 149 155 173	96 102 104 107 102	93 93 94 93 87	127 130 130 138 138
11 12 13 14 15	202 244 225 203 194	167 165 165 165 162	160 169 195 195 157	165 135 130 144 151	163 160 148 137 143	100 139 142 136 118	123 111 103 72 62	124 113 136 130 133	165 162 138 127 148	103 114 122 112 114	85 83 100 113 110	142 142 141 139 138
16 17 18 19 20	220 606 608 666 742	163 165 165 165 163	150 151 154 190 200	149 156 212 227 249	144 136 114 113 101	96 103 133 123 135	93 102 130 125 129	125 117 120 124 114	148 131 142 167 136	133 144 132 124 117	111 115 113 112 112	139 141 143 141 145
21 22 23 24 25	471 376 324 292 262	163 161 162 162 163	177 186 159 143 113	262 310 283 253 212	96 106 113 105 123	127 103 113 99 89	106 94 99 107 120	110 118 108 110 112	11¼ 102 102 110 93	108 113 114 117 114	115 112 113 115 118	149 152 206 3630 5940
26 27 28 29 30 31	287 310 280 237 221 210	162 163 166	100 112 100 91 92 98	189 173 165 160 160	111 112 96 121 132 133	105 99 89 95 71	124 107 94 91 104 114	115 129 159 168 168 168	93 90 93 96 91	111 113 113 104 98 98	114 115 117 116 116	7670 9280 10900 10200 9810 9540
Mean	302	172	153	180	149	114	107	122	129	110	105	2264
Ac-Ft	18600	9530	9390	10710	9140	6810	6590	7480	7650	6780	6230	139200
Maximum Dischar	ge of recor	yeer 11, d 13,600	200 c.f.e. c.f.a. Doce	December 5, 1	20, 1955 950				Total Runoff in Acre-Feet	Calen Water	dar Year Year	238110 109150

U. S. Ocological Survey, U. S. Buresu of Reclamation, and Division of Water Resources cooperative station, also known as Merced River below Stevinson Drain, located at Mile 4.0R above mouth. Drainage area is 1274 square miles. Feriod of record 1944 to date (prior records available at a site 3.5 miles downstream). Records for 1955 computed by U. S. Geological Survey.

TABLE 147

FLOW OF MERCED RIVER SLOUGH NEAR NEWMAN - 1955

Dete					Deily	Meen Flow	in Second-	Feet				
Dara	Jan.	Feb.	Merch	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345												000000000000000000000000000000000000000
6 7 8 9 10												0 0 0 0
11 12 13 14 15	N O	N O	N O	й О	N O	N O	N O	N O	N O	N O	N O	0000000
16 17 18 19 20	F L O W	F L O W	FL OW	F L O W	F L W	F L V W	F L O W	F G W	F 1, 0 W	F L V	F L V	000000
21 22 23 24 25												0 0 183 904
26 27 28 29 30 31		=		_							_	1540 2090 3570 3990 3840 3540
Meen	Ö	0	0	0	0	0	0	0	0	0	0	634
.c-Ft	0	0	0	0	0	0	0	0	0	0	0	39000

In Acce-reet water feer 0 U. S. Geological Surver, U. S. Bureau of Reclemation, and Division of Water Resources cooperative station, elso known as Marced River Slough neer Hills Ferry Roed Bridge, loceted 500 feet downstream from the heed of the slough between Marced River end Sen Joaquin River. This station records the flow which at high stages in the Marced River by-passes the Hills Ferry Roed Bridge end reaches the San Joaquin River et Mile 122.2 at a point below the Newman geging station. Period of record 1941 to date. Records for 1955 computed by the U. S. Geological Survey.

TABLE 148

FLOW OF CRESTIMBA CREEK NEAR NEWMAN - 1955

0.11					Deily	Meen Flow	in Second-	Feet				
Dete	Jan.	Feb.	Merch	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	00000	0 0 0 0	4.8 2.2 1.0 0.1 0									00000
6 7 8 9 10	000000000000000000000000000000000000000	0 0 0 0										00000
11 12 13 14 15	00000	0 0 0 0	0 0 0 0	N O	N O	N O	N O	N O	N O	N O	N O	0 0 0 0
16 17 18 19 20	0 0 7.5 0.6	0 0 0 0	0 0 0 0	F L W	FLOX	F L O W	FLOW	FLOW	к по М	F L O W	F L V	0 0 0 0
21 22 23 24 25	C O O O	0 0 0 0	0 0 0 0									0 3170 1310 300
26 27 28 29 30 31	0 0 0 0 0	0 0 6.8	000000000000000000000000000000000000000			_						228 205 104 62 47 192
Meen	0.3	0.2	0.3	0	0	0	0	0	0	0	0	181
Ac-Ft	16	13	16	0	0	0	0	0	0	С	0	11140
Meximum Discher:	Calendar ge of recor	r yeer 562 rd 5620 c.	D c.f.s. D f.s. Decem	ecember 23 ber 23, 19	1955 55				Totel Runoff in Acre-Fest	Celer Weter	nder Yeer Yser	11185 45

U. S. Geologicel Survey and Division of Water Resources cooperative station located at highway bridge five miles west of Newman. Orestimbe Creek is a west-side tributery to the Sen Joaquin River at Mile 115. Period of record 1932 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 149 FLOW OF TUOLUMNE RIVER ABOVE LA GRANGE DAM - 1955

					Daily	Mean Ploy	in Second	-Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	De¢.
12 うしょう	633 610 882 1000 838	1600 1650 1590 1500 1410	1060 1030 1000 1070 934	2630 2680 2660 2600 2680	599 909 896 964 851	2270 2270 2280 2300 2280	2290 2300 2280 2250 2270	1650 1890 1900 1780 1590	1940 1930 1990 1660 1680	723 515 909 805 733	666 686 689 697 505	981 885 663 396 1010
6 7 8 9 10	994 888 787 668 1080	1220 1520 1490 1490 1390	629 945 962 973 9 27	2680 2700 2700 2700 2660	975 982 481 811 805	2250 2260 2250 2250 2220	2330 2330 2350 2360 2320	1550 1240 1880 1850 1820	1950 1970 1860 1610 1400	800 710 505 352 776	196 741 918 909 834	1020 518 1130 1060 732
11 12 13 14 15	968 947 1080 1070 935	1420 1300 1200 1470 1110	854 929 818 1230 1330	2450 2220 2090 1980 1820	983 1080 1120 1020 746	2220 2170 2150 2120 2170	2310 2360 2380 2390 2410	1870 2030 1930 1600 1960	964 1660 1520 1460 1350	668 619 6Цц 7сц 3Ц1	686 827 605 967 757	530 1260 1380 1430 1350
16 17 18 19 20	481 1110 1010 937 848	1300 1150 1320 918 676	1350 1300 1350 2360 2470	1620 1300 1750 1500 1220	1350 1760 1820 1910 2180	2160 2210 2220 2190 2170	2250 2140 2140 2140 2140 2120	2000 2060 2030 2060 1950	1410 1250 1490 1620 1460	174 362 315 293 306	1020 757 757 403 224	1350 1080 757 1380 1130
21 22 23 24 25	870 629 439 1200 1500	1080 769 1050 984 1080	2170 2520 2560 2560 2650	810 457 266 122 707	2400 2370 2300 2350 2340	2230 2230 2240 2230 2230 2230	2130 2030 1990 1980 2010	1660 2130 2170 2130 2060	1430 1430 1340 1170 888	251 174 113 291 282	686 733 972 226 716	1210 1910 5960 32800 19900
26 27 28 29 30 31	1300 1240 1380 1190 896 1260	1100 729 1140	2580 2560 2580 2600 2620 2660	603 644 440 530 450	2330 2320 2320 2310 2250 2220	2220 2200 2260 2280 2270	2010 2020 2060 2190 2040 2010	2010 1940 1740 2190 2200 2240	1510 1530 1380 1310 1390	290 283 262 153 66 237	507 24 757 777 859	18460 21000 9400 8520 8520 8520 8450
Meen	957	1238	1674	1656	1540	2227	2200	1913	1519	442	OBL	5050
Ac-Ft	58850	68740	102900	98520	94710	132500	135300	117600	90410	27210	40700	310500
Meximum Dischar			,700 c.f.s. c.f.s. Dec						Total Runof: in Acre-Fee		ndar Year r Yeer	1277940 1023150

U. S. Geological Survey, City of San Francisco, Modesto Inrigstion District, and Turlock Inrigation District cooperative station located 0.5 mile downstream from Don Fedro Dam anu 3.5 miles upstream from La Grange Dam. Drainage area is 1540 square miles. Period of record 1915 to date. (Prior records available at a site 3.5 miles downstream.) Records for 1955 computed by U. S. Geological Survey.

TABLE 150

FLOW OF TUOLUMNE RIVER AT LA GRANGE BRIDGE - 1955

					Daily	Mean Flow 1	n Second-F	eet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	384 358 622 622 612	#632 #653 #622 #622 #617	835 799 787 841 732	●28 ♦26 ●26 ♦24 ♦23	13 17 13 13	13 13 13 13 13	7.9 7.9 7.9 8.6 8.6	7.9 7.2 7.2 7.9 5.7	11 9.7 6.4 6.4 5.7	5.7 3.6 13 8.6 9.7	51-10 55-10 55-125	467 615 390 476
6 7 8 9 10	622 622 770 680 643	*607 *1130 •1490 •1490 1380	602 617 632 627 662	●23 ●22 ●20 ●19 ♥19	13 14 14 14 14	13 13 13 13 13	9.7 9.7 8.6 8.6 8.6	5.7 5.0 5.7 5.7	7.9 9.7 13 7.9 7.2	11 7.9 7.9 7.2	242 292 19 8.6 7.9	484 473 587 582 576
11 12 13 14 15	627 622 627 632 632	1410 1300 1220 1470 1160	617 283 79 88 79	*18 *16 15 13 13	17 20 14 14 19	13 13 13 30 5.7	8.6 8.6 7.9 7.9 7.9	5.7 15 5.7 5.0 5.0	7.2 8.ć 7.9 7.2	8.6 14 19 20 9.7	7.2 6.4 6.4 207 435	576 587 592 597 587
16 17 18 19 20	622 643 632 622 612	1320 1140 1310 641 635	66 61 57 49 44	12 24 8.6 2.6 2.8	17 14 14 15 12	5.00 5.00 5.00 5.00	7.0 7.2 7.2 7.2	5.7 5.7 5.7 5.7	6.4 7.2 6.4 7.2 19	17 224 308 277 230	487 458 467 411 294	592 1080 806 752 638
21 22 23 24 25	612 643 513 566 6.3	1080 758 1060 889 904	42 42 40 39 37	5.0 2.1 0.6 0.6 78	12 12 12 13 12	5.77	6.4 6.4 7.2 7.2 7.2	5.7 5.7 6.4 7.4	11 5.7 6.4 5.7 5.7	258 170 40 277 255	415 508 477 381 385	689 968 6230 28200 17700
26 27 28 29 30 31	643 632 696 632 0856 0458	896 616 914	35 34 032 030 030 020	61 11 4.3 4.3 7.9	13 13 13 13 13 13	7.2 7.9 7.9 7.9 7.9 7.9	7.2 7.9 7.7 9.7 7.2 6.4	6.4 5.7 6.4 7.2 7.2	5.7 6.4 6.4 7.0	283 253 288 180 40 272	481 317 417 437 478	16400 18700 9110 8260 8160 8140
Mean	6.2	1010	249	17.7	14	10	7.9	6.4	7.9	114	344	4338
Ac-Ft	38280	56060	17750	1051	859	596	485	345	470	6993	50,110	266700
Maximum Discher	'ge			Decem.er				1 7	tal Runoff Acre-Fest	Water	dar Year Year	410079 184076

Divisi n of Weter Res arces stati n located at Mile 4.5 a wer its. Period of record 1.5 • Estimated

FLOW OF TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE - 1955

Date					Daily	Mean Flow	in Second-	Faet				
Date	Jen.	Feb.	March	April	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 3445	512 342 564 603 603	6 5 9 666 630 652 652	827 802 776 822 752	60 63 65 71 65	60 63 55 55	47 47 40 42 47	36 34 32 32 30	32 30 26 24 26	32 32 40 40 38	4028 334 342	386 850 659 652 596	506 499 506 561 480
6 7 8 9 10	596 590 603 710 681	652 899 1450 1460 1390	704 616 645 638 652	600 507 450	52 58 55 55 55 55 55 55 55	1458 348 348 348 348	30 30 32 34	32 32 32 30 26	36 32 32 40 38	40 40 38 36 38	448 302 236 77 55	538 492 616 623 616
11 12 13 14 15	630 616 610 630 638	1410 1280 1250 1330 1170	717 533 154 113 116	47 47 38 32	52557	455555	32 30 30 28 28	24 28 38 38 34	38 34 32 38 38	40 340 45 47	45 40 47 447	610 603 610 610 610
16 17 18 19 20	753 666 753 731 645	1270 1140 1250 1020 796	102 96 90 87 80	30 45 45 40	47545	47 38 32 32 32	32 30 28 28 28 26	30 28 26 24 26	36 38 40 38 40	50 63 386 387 345	540 533 514 499 363	603 791 913 816 709
21 22 23 24 25	645 616 603 538 645	899 854 950 907 889	74 71 71 71 71 71	40 450 40	38 42 42 45	30 30 32 32 34	24 24 20 22 26	30 30 32 30 30	45 52 40 34 36	367 316 182 195 377	363 512 525 480 352	674 814 4860 27300 19500
26 27 28 29 30 31	674 674 710 688 724 791	882 776 772	71 71 68 65 65 60	124 134 63 52 52	47 470 550 47	38 34 34 30 34	28 26 24 24 28 32	30 32 36 36 36 36 32	142 36 38 38 40	360 361 353 322 182 178	392 427 427 462 497	15700 21200 10100 8350 8290 8290
Mean	638	998	325	54.9	49.9	39.3	28.7	30.3	37.8	162	392	4432
Ac-Ft	39240	55450	19990	3265	3066	2340	1765	1864	2247	9961	23380	272500
Maximum Dischar	ge	er yeer 35,.						1	otel Runoff n Acre-Fast d 1930 to da	Water	ndar Year r Year	435068 204807

D

45350

Mean

Ac-Ft

Maximum Discharge

Celender year 35,400 c...s. December 24, 1955 of record 59,000 c.f.s. December 8, 1,50

23550

7214

Date					Daily	Mean Flow	in Sacond-	Feat				
	Jan.	Fab.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12745	609 448 590 705 700	772 778 735 740 735	908 866 844 872 849	117 119 119 127 119	123 125 125 125 123	108 110 108 104 104	96 100 98 98 94	98 98 96 96 96	94 92 94 94	100 100 98 96 96	370 778 650 645 613	577 556 558 631 524
6 7 8 9 10	695 700 844 805	720 868 1490 1490 1460	772 675 690 710 705	117 110 110 110 108	121 127 131 127 127	108 102 104 102 102	96 96 98 96 98	98 98 96 96 96	92 92 94 96	98 100 102 102 102	536 266 370 148 127	613 571 670 685 675
11 12 13 14 15	735 725 715 715 740	1450 1390 1330 1370 1280	735 641 232 168 161	108 108 112 112 110	125 125 123 121 117	102 108 108 106 125	96 96 96 92 90	92 94 96 102 98	96 96 92 96 98	102 102 104 106 125	114 108 110 112 349	675 670 680 680 680
16 17 18 19 20	878 766 854 860 756	1240 1260 1260 1180 914	148 144 138 138 142	108 117 131 121 119	119 117 117 114 114	114 100 92 92 90	92 96 94 92 92	96 96 94 94 94	98 98 100 98 98	114 117 295 395 372	553 5582 5548 5548 436	680 745 1050 884 810
21 22 23 24 25	740 720 740 613 750	890 980 956 1020 914	125 123 121 121 121 121	117 121 123 114 112	110 110 110 108 108	90 92 92 92 92	90 90 92 94	96 96 92 92 94	98 106 102 98 98	336 355 259 151 368	426 548 584 552 397	740 844 4060 25300 22300
26 27 28 29 30 31	756 735 778 766 756 964	938 926 788	123 123 121 119 117 119	176 194 138 119 121	112 110 112 110 110 108	96 96 94 94 94	94442 9999 999 94	94 98 98 96 96 94	96 94 98 100	362 380 361 386 256 148	542 496 416 523 540	15200 22100 10600 8170 8040 8060
Mean	738	1067	383	121	118	101	94.3	95.8	96 . 4	200	433	4485

6000

5796

5736

Total Runoff in Acre-Feet

12270

25740

Celendar Year Watar Year

275800

479845 252765

TABLE 152 FLOW OF TUOLUMNE RIVER AT HICKMAN BRIDGE - 1955

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

7248

Date					Deily	Meen Flow	in Second-	-Feet		-		
Date	Jan.	Feb.	Merch	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	734 1280 1270 1010 917	929 917 914 899 887	1060 1046 1010 976 1020	272 285 265 267 267	256 256 261 250 245	274 245 254 250 258	212 208 210 210 201	220 215 215 215 215	215 215 215 220 220	215 230 215 215 200	374 630 742 731 731	710 720 710 784 630
6 7 8 9 10	875 863 851 962 956	878 845 1400 1600 1620	914 824 815 830 821	274 272 265 265 272	236 247 283 287 280	261 241 225 230 230	199 206 214 225 236	210 215 215 215 215 205	215 210 210 210 210 220	215 230 215 222 222	680 524 497 374 284	710 752 773 648 837
11 12 13 14 15	1310 1060 929 893 890	1560 1530 1470 1400 1510	845 564 641 399 341	261 252 253 253 252 253	269 250 256 261 263	239 213 247 241 256	232 228 230 214 197	205 210 215 215 225	220 225 215 210 220	222 230 230 230 238	252 238 238 245 292	626 815 826 815 604
16 17 18 19 20	1310 2470 1350 2440 1640	1330 1450 1320 1490 1190	341 275 230 320 291	254 269 327 344 317	261 276 283 276 276 276	267 252 256 252 243	192 203 208 199 210	210 210 215 220 215	220 220 225 230 225	260 252 300 497 497	591 630 680 690 640	804 804 1140 994 960
21 22 23 24 25	1170 1000 959 818 60	923 1220 990 1190 1060	285 278 289 285 276	324 317 317 296 272	272 2l41 250 252 261	234 221 219 241 243	219 204 205 210 205	215 215 215 215 215 215	220 215 220 215 215 215	401 479 425 343 362	562 620 720 710 630	870 925 2770 17800 31400
26 27 28 29 30 31	905 899 884 9141 893 1070	1070 1090 866	283 276 275 272 274 274 276	272 332 327 265 252	252 250 252 250 252 252	221 239 221 210 201	205 200 210 220 210 210 210	215 220 235 225 220 225	220 205 205 210 215	470 479 479 425 340	610 690 572 620 670	18900 21000 17600 9760 8440 8300
Mean	1133	1200	548	282	260	241	211	216	217	319	551	4569
c-Ft	69640	66650	33720	16800	15960	14320	12960	13280	12890	10640	32760	305500
eximum ischer	ge of reco	r year 37, rd 57,000	c.f.s. Dec	ember 9, 1	950				Totel Runoff in Acre-Feet		der Yeer Yeer	614120 369270

Station is maintained jointly by Division of Water Resources and the U.S. Geological Survey. Station is located at the Tidewater Southern Reilroad bridge at Mile 15.92 above the mouth of the Tuolumno River and 0.6 mile downstream from the confluence of Dry Creat. Period of record 1910 to date. Records for 1955 computed by U.S. Geological Survey.

TABLE 154	
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FLOW OF TUOLUMNE RIVER AT TUOLUMNE CITY - 1955

Dete					Deil3	Meen Flow	in Second	l-Feet				
2000	Jan.	Feb.	Merch	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
123455	740 1335 1655 1090 990	1045 970 960 945 930	1060 1090 1080 1050 1070	335 350 345 330 335	320 315 315 315 305	310 295 295 305 305	270 270 275 270 265	270 265 265 260 260	265 265 275 275 275	270 275 275 265 270	350 480 815 805 310	710 740 725 750 765
6 7 8 9 10	935 905 890 935 1020	920 890 1200 1610 1650	1010 930 865 880 875	335 330 325 330 335	300 315 320 335 335	305 300 285 280 285	260 260 265 265 275	260 265 265 265 265	265 265 260 260 265	270 280 280 280 280 285	790 685 490 495 365	740 795 810 915 915
11 12 13 14 15	1230 1185 1010 945 925	1605 1625 1540 1465 1595	875 930 825 540 425	335 320 320 320 320 325	325 310 310 305 315	285 290 290 295 295	270 280 275 265 260	260 260 255 265 265	265 275 270 265 265	285 290 290 285 285	325 315 310 315 310	895 880 870 870 860
16 17 18 19 20	1035 2420 1640 2020 2080	1435 1510 1415 1495 1285	445 375 360 375 365	325 330 355 390 380	310 315 315 305 305	295 295 295 295 295 285	260 265 265 260 260	260 260 250 255 265	275 270 280 280 280	295 295 290 385 490	455 760 720 725 725	855 850 1010 1150 1080
21 22 23 24 25	1385 1160 1070 980 900	1050 1205 1100 1210 1150	350 340 345 335 330	380 395 370 350 335	300 300 290 290 300	280 275 270 280 290	270 265 260 265 260	265 265 265 260 260	275 280 280 285 285	500 485 490 425 355	620 580 700 740 695	1015 990 1550 12800 23600
26 27 28 29 30 31	970 965 950 980 960 1050	1125 1145 1005	330 330 335 335 330 335	330 360 370 335 315	290 300 310 305 305 305	290 290 285 275 265	250 255 250 265 265 265	260 265 280 280 265 270	285 270 265 270 275	465 480 505 500 510 425	585 670 650 580 655	20700 20000 19550 16150 7500 7500
Meen	1173	1253	617	343	309	290	265	203	272	357	584	4795
Ac-Ft	72109	69580	37924	20410	19012	17226	16264	16195	16195	21977	34750	294827
Maximum Discher				-					Total Runof in Acre-Pee		ndar Year r Year	636469 401543

Station is saintained [bintly by Division of Water Resources, City of San Frencisco (Hetch Hetchy Water Supply), and Turlock Irrivation District. Station is at highway ridge, 3.35 miles above the mouth. Period of record 1930 to date. Records for 1955 computed by City of San Francisco.

					Daily	Maan Flow	in Second-	Faat				
Deta	Jan.	Fab.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dac.
ካተ	39 1840 489 165 91	40284 449 49	24 56 50 39 33	47 46 48 50 43	18 16 15 14 13	52 147 538 588 62	37 31 35 30 26	37 37 35 36 28	36 34 31 34 35	20 19 13 25 25	11 11 17 18 17	34 37 39 40
6 7 8 9 10	67 46 45 40 104	41 36 33 30 28	29 26 24 24 22	56 58 59 57 57	17 24 50 57 48	62 50 43 46 55	38 35 39 37 37	27 34 27 25 23	28 24 25 23 18	28 27 20 27 26	19 21 20 22 25	46 65 69 68 66
11 12 13 14 15	505 187 101 76 67	26 25 24 23 26	21 21 20 21 20	56 57 54 56	40 29 39 42 47	59 65 62 60 71	50 48 43 29 27	25 32 27 25 19	18 29 34 29 33	29 28 26 25 25	27 29 31 34 35	66 63 57 49 50
16 17 18 19 20	869 1380 438 1590 602	27 26 29 55 54	18 16 14 20 33	57 57 88 101 79	50 56 60 52	69 67 67 75 69	30 31 32 29 34	24 24 29 32 31	29 27 33 36 29	22 23 27 32 29	39 41 42 39 31	50 50 52 57 60
21 22 23 24 25	295 162 116 91 75	41 34 29 26 26	31 38 36 36 36 36	60 81 77 59	414545	65 548 60	29 33 34 34 34	34 29 25 23 30	29 27 25 25	25 22 19 21 20	26 26 28 31 30	62 73 2840 7160 3980
26 27 28 29 30 31	614 57 52 53 51 43	25 25 24	39 36 38 44 48 47	33 24 19 15 14	51 52 51 51 50 50	48 48 46 34 34	34 22 18 25 24 24	4632 4632 4632 4657 477	26 24 23 24 24	14 22 24 22 17 13	30 30 31 32 33	716 2270 839 328 199 256
Maan	316	33.9	31.0	53.4	41.4	56.9	32.5	31.6	27.9	23.1	27.5	638
Ac-Ft	19440	1882	1904	3178	2543	3384	2001	1946	1658	1418	1638	39230
Maximum Dischar		year 7710	c.f.s. De	cember 23,	1955.				Fotal Runof: in Acre-Fee		dar Yser Year	80222 44329

Division of Water Resources station located at Clauss Road Bridge, 5.4 miles above Modesto. Dry Greek enters the Tuolumne River above the Modesto gaging station at Mile 16.5R. Period of record (including a former station located 2.9 miles above mouth) 1930 to date.

TABLE 156	TAB	LE	156
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FLOW OF STANISLAUS RIVER BELOW MELONES POWERHOUSE - 1955

					Daily	Mean Flow	in Second-	Faet				
Dsta	Jan,	Fab.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
14001	669 1110 1090 1060 1050	585 490 184 601 21	610 86 88 649 607	1320 1300 1290 1260 1230	690 510 433 419 522	3190 2520 2230 2530 3350	1240 1240 1240 1240 1240 1230	1160 1150 1140 1140 1140	552 210 186 189 222	286 286 292 286 286	94 95 84 38 15	97 311 403 259 57
6 7 8 9 10	916 188 330 419 372	272 611 515 252 434	612 660 646 795 937	1170 1160 1160 1160 1160 1170	840 1070 1080 1090 1160	4160 4620 4750 4710 4660	1240 1240 1250 1250 1250	1130 1130 1120 1120 1120 1110	250 261 264 254 326	237 207 177 172 51	106 61 84 84 85	352 484 720 720 494
11 12 13 14 15	600 68 344 349 355	489 21 447 504 400	867 930 821 1150 883	1210 1240 1250 1290 1320	1280 1420 1510 1500 1490	3950 3140 2770 2500 2290	1240 1220 1220 1220 1220 1220	1100 1100 1090 1090 1090	554 582 599 574 514	15 130 104 140 104	84 85 85 129 178	730 725 278 393 420
16 17 18 19 20	655 905 342 1020 1060	576 708 1070 1070 1070	1030 676 671 671 671	1340 1350 1200 1100 1060	1490 1570 1640 1650 1670	2050 1840 1780 1780 1780	1220 1220 1210 1210 1210	1080 1080 1070 1060 1060	462 418 378 131 28	106 106 104 126 127	156 120 155 176 178	203 234 471 705 740
21 22 23 24 25	1040 359 280 600 416	1060 1050 929 658 690	671 671 676 676 676	1070 1100 1080 1090 1090	1680 1700 2640 4780 3420	1780 1690 1660 1470 1390	1200 1200 1190 1190 1190	1050 1040 1030 1030 1020	26 30 25 182 240	103 101 97 90 59	179 127 250 271 203	750 2450 45000 20000 5000
26 27 28 29 30 31	593 231 438 558 475 329	698 458 1040	680 840 896 1060 1220 1320	1090 1090 835 700 690	3120 3050 3530 4550 4960 4550	1390 1380 1300 1250 1250	1180 1180 1180 1170 1160 1160	1010 996 984 974 957 946	213 250 264 278 286	82 82 94 105 94 99	176 83 130 131 228	14000 12000 8000 4500 4200 3500
Maan	588	604	756	1147	1968	2505	1213	1071	292	140	129	4135
Ac-Ft	36140	33530	46500	68260	121000	149100	74600	65850	17350	8620	7690	254300
Maximum Dischar	ge of rac	Br year 62 ord 62,800	,800 c.f.s. c.f.s. Dec	December ambar 23,	23, 1955 1955				Total Runoff in Acre-Feet	Calen Water	dar Yaar Year	882940 658010

U. S. Geological Survey and Pacific Gas and Electric Company cooparative station located one mile downstream from Molones Dam. Drainage area is 898 square miles. Period of record 1931 to date. Records for 1955 computed by U. S. Geological Survey.

FLOW OF	STANISLAUS	RIVER	АT	ORANGE	BLOSSOM	BRIDGE	_	1955
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TABLE 157

Date					Daily	Mean Flow	In Second-	Feet				
Dare	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	2130 1330 1120 1070 1040	154 300 217 51 251	942 131 130 340 634	31 32 34 32 31	198 164 50 32 31	1560 825 617 681 1230	26 2558 28 25 25	26 30 30 31 30	37 20 20 20	21 30 34 31 26	78 76 98 127 161	228 103 385 524 100
6 7 8 9 10	1020 396 241 388 758	42 53 256 214 50	533 626 631 611 1060	31 31 30 30 30	30 30 32 34 32	1950 2040 2880 2850 2700	26 28 26 28 28	25 30 30 31 31	16 13 16 15 17	26 28 30 25 23	139 103 83 59 89	410 527 786 856 533
11 12 13 14 15	688 411 127 207 137	161- 178 32 159 186	633 1080 568 1100 835	30 30 30 31 31	34 31 34 55 57	2110 1350 1010 794 617	30 25 21 24 26	31 34 28 30 32	17 18 23 18 15	13 13 10 47 297	89 106 139 180 177	734 717 360 336 364
16 17 18 19 20	899 925 1050 1220 923	115 443 744 948 1010	1070 715 324 51 32	31 36 46 44 37	50 41 36 36 37	471 184 69 48 42	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	32 37 37 36 37	21 21 24 17 13	286 120 73 69 61	529 483 48 13 11	304 174 152 533 828
21 22 23 24 25	786 553 73 95 256	1010 1010 1000 598 670	28 28 28 26 26	36 286 169 131 127	38 40 41 1030 2040	40 42 36 36 34	25 20 18 20 24	36 34 32 34 37	11 6.8 3.7 4.6 77	55 71 95 127 95	10 11 13 304 256	825 3350 27700 36200 12500
26 27 28 29 30 31	211 240 44 92 240 196	700 573 1050	24 23 24 25 25 30	146 227 262 98 154	997 1250 1360 2280 3010 2710	30 25 25 30 26	25 26 24 26 25	38 422 422 37 32	97 30 28 28 28	81 69 64 59 64 73	194 173 39 106 123	9860 13200 7570 5190 4710 4340
Mean	609	435	399	76.5	512	832	25.0	33-3	21.0	68.3	135	4336
Ac-Ft	37420	24150	24520	4550	31460	49490	1539	2047	1426	4201	8027	256500
Maximum Dischar		rd 52,000	c.f.s. Nov	ember 21,	1950				fotal Runof: In Acre-Fee		dar Year Year	455430 217596

Division of Watar Raginees stat on located at highway cridge, Mila 47.0 above mouth or 5.7 miles above Oakdale. Feriod of record 1930 to data.

					Daily	Mean Flow	in Second-F	eet				
Data	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	1100 1860 1240 1140 1110	165 318 291 130 270	1100 505 223 206 656	85 79 81 78	243 270 183 118 94	2090 919 665 569 923	83 81 85 85 86	73 73 72 68 70	64 66 64 59 50	6 7 66 66 68 56	83 83 81 101 102	209 154 272 436 234
6 7 8 9 10	1080 781 329 433 723	130 100 274 258 126	669 642 700 712 1030	74 73 71 73 78	89 90 121 124 107	1660 2350 2710 2750 2610	85 86 84 81 86	72 68 68 67 73	5520 5520 553	71 66 71 67 68	98 92 86 83 81	135 569 570 778 646
11 12 13 14 15	624 705 251 275 200	189 227 116 127 258	765 1060 772 1030 948	75 74 78 80 76	96 93 92 108 121	21,1,0 1660 1160 873 662	81 83 80 79 75	74 70 68 68 71	54 55 55 50 61	70 55 66 62 74	83 31 81 86 83	609 705 606 344 406
16 17 18 19 20	702 1050 545 1440 1070	168 343 619 885 1040	1100 923 578 233 160	81 86 104 102 97	118 108 102 102 104	503 288 157 111 96	81 80 75 76 74	67 73 73 70 64	62 65 67 68 64	93 96 88 84 81	0 4 954 83 68 60	429 253 196 356 722
21 22 23 24 25	862 758 275 145 311	1060 1080 1070 786 727	118 104 97 94 90	97 195 245 177 160	105 108 111 1580 2620	81 100 සංද්ය සෙර සෙර සෙර	74 72 74 75 74	67 61 61 60 64	ර0 60 දෙරි රේ දුරි ද රි රි	78 79 60 89 88	56 52 51 143 261	885 1690 22800 56600 14500
26 27 28 29 30 31	219 300 140 142 254 254	736 762 892	84 81 76 80 80 80	167 239 330 223 206	1140 1410 1190 1820 2720 2750	●84 ●30 \$80 79 80	68 71 73 73 73 73	67 70 67 66 66 66	•ର୍ଟ୍ୟ କର୍ଟ୍ୟ 65 65	85 84 81 ~1 7° 80	213 198 128 130 144	8860 12500 8490 5610 4 60 5020
Mean	669	470	464	122	582	868	78.3	68.3	60.4	76.5	102	4853
c-Pt	41090	26:080	29740	7273	35,80	51660	4812	4100	3506	4703	6091	208,00

TABLE 158 FLOW OF STANISLAUS RIVER AT RIVERBANK - 1955

Discharge of record by, C.C.LS. December 23, 1955 Division of Water Res uncee station located at Mile -3." B overm still, Perfod of record 1,40 to date. • Estimated

TABLE 159 FLOW OF STANISLAUS RIVER AT RIPON - 1955

Dete					Deilj	Meen Flow	in Second	-Feet				
Dare	Jan.	Feb.	Merch	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
コロットチッ	452 2000 1450 1250 1190	319 303 380 326 248	1090 934 435 348 504	163 162 184 184 163	470 530 528 420 270	2580 1670 1080 842 929	160 171 171 174 164	139 127 111 111 120	121 136 132 124 120	134 144 122 113 115	132 138 139 144 160	228 288 245 374 472
6 7 8 9 10	1160 1100 600 514 657	317 214 216 323 306	698 664 723 745 793	151 145 142 162 179	206 182 283 258 209	1450 2100 2520 2710 2720	177 166 160 151 151	133 148 145 117 103	107 107 110 111 108	121 111 108 113 113	164 160 150 136 133	288 484 562 776 849
11 12 13 14 15	802 783 540 389 368	214 263 272 187 233	1060 824 1090 800 1150	151 154 134 160 172	177 172 156 150 169	2670 2220 1630 1280 1010	152 150 134 124 120	106 111 115 124 118	107 108 114 120 127	122 127 122 130 132	132 136 151 164 164	626 740 750 540 464
16 17 18 19 20	490 1080 1030 1440 1300	278 263 460 738 968	971 1150 866 570 431	162 160 212 267 195	187 169 148 151 132	812 635 466 364 315	126 146 146 127 132	120 118 127 132 145	124 127 144 142 134	163 203 158 146 142	157 158 163 151 138	478 440 348 319 527
21 22 23 24 25	1040 912 670 385 348	1050 1080 1090 1060 769	301 236 212 204 193	196 272 359 342 294	138 138 148 376 2120	274 267 260 255 212	127 122 121 133 126	151 145 124 117 133	124 117 110 110 107	140 134 144 148 140	127 122 122 121 209	784 897 3060 47000 22800
26 27 28 29 30 31	389 370 366 260 283 344	790 812 747	176 169 164 150 152 156	283 278 332 468 401	1710 1280 1330 1580 2320 2750	209 206 195 180 171	126 126 121 122 118 126	140 151 156 156 146 132	111 124 122 126 126	139 138 157 145 139 134	294 288 265 201 206	5670 17500 13400 7540 5450 5120
Mean	773	508	579	221	608	1074	141	130	120	135	164	4484
c-Ft	47530	28220	35620	13140	37400	63930	8670	7980	7140	8320	9770	275700
ximum scher	Celender ge of recor	r yeer 62, rd 62,500	500 c.f.s. c.f.s. Dec	December : ember 24.	24, 1955				Totel Runoff in Acre-Feet		nder Yeer 7 Yeer	543420 310590

Station mainteined jointly by Division of Mater Resources and the U.S. Geologisel Survey. Station is at Highway 99 and is 15.7 miles above mouth of river. Period of record 1940 to date. Records for 1955 computed by U.S. Geological Survey.

TA	BLE	160	
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FLOW OF STANISLAUS RIVER NEAR MOUTH - 1955

					Deily	Meen Flow	in Second-1	Peet				
Date	Jan.	Feb.	Mərch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
うちょう	125 1260 1550 1230 1150	347 299 349 352 291	047 1040 750 445 400	122 120 111 114 86	434 409 508 431 336	2480 1840 1150 903 821	119 105 117 129 109	58 52 40 32 30	76 105 92 78 59	106 157 89 74 73	130 130 130 144 *153	243 272 277 306 428
6 7 8 9 10	1110 1080 825 561 574	301 254 208 279 313	631 631 645 680 718	76 75 92 122 175	258 213 289 329 254	1140 1710 2210 2440 2500	84 76 57 68 137	42 82 57 78 44	52 59 46 51 60	65 92 105 137 130	*151 *153 *155 *157 *158	387 321 549 628 787
11 12 13 14 15	787 747 712 454 419	265 270 303 258 243	955 769 989 769 989	132 129 125 94 106	175 132 119 132 151	2430 2220 1630 1240 1020	87 60 58 73 48	38 34 35 51 57	100 90 44 45 65	155 151 122 99 146	*162 *164 *166 *166 *167	680 662 715 628 480
16 17 18 19 20	376 840 1060 1160 1420	311 289 368 581 829	911 989 848 634 4, 0	59 153 198 252 254	122 129 102 93 97	833 648 496 431 339	63 92 93 73 54	37 37 354 70	92 89 139 117 65	149 176 173 137 137	*169 *171 175 176 167	474 480 389 331 395
21 22 23 24 25	1120 947 833 533 397	980 1030 1060 1060 825	373 239 184 175 157	258 296 362 395 362	97 146 116 86 1130	263 196 192 194 188	140 145 36 29 69	108 89 53 74 53	74 82 83 65 106	139 148 151 113 132	157 14 146 144 158	634 773 *4800 *50000 *21000
26 27 28 29 30 31	419 373 400 331 306 342	747 -21 887	160 146 122 108 103 103	2 44 316 342 408 408	1720 1075 1220 1260 1830 2450	178 148 121 124 129	65 63 47 35 56	54 57 105 96 97 73	119 117 119 125 116	106 100 100 116 113 129	256 287 287 263 234	*6300 *16000 *14000 *8200 *4750 *5000
Mean	766	5-4	² 51	50ft	514	1007	73.7	59.8	84.3	123	174	4619
Ac-Ft	47050	28010	33850	12170	31590	59930	4530	3670	5018	7577	10360	283400
Meximum Discher									Totel Runoff in Acre-Feet		nder Yeer r Yeer	527204 285537

Division of Water Resources station located 1.9 miles above the mouth. Period of record September 1951 to date. (Frior records evellable at other sites for 1930 to 1950.) # Estimated

			TABL	E 10	51		
FLOW	OF	KINGS	RIVER	AT	PIEDRA	-	1955

Date					Deily	Mean Flow	in Second-	Peet				
Dare	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345	496 195 80 74 92	134 130 126 128 128	444 420 421 460 523	1820 1840 1660 1530 1590	1810 1780 1200 1230 1230	4320 4690 4660 4640 461	5150 5200 5130 5150 4350	2990 2910 2760 2690 2670	2070 2020 1950 1930 1850	208 198 198 184 180	47 42 15 11 11	146 39 38 33 29
6 7 8 9 10	88 86 83 86 122	132 132 206 224 224	523 528 595 560 716	1000 1550 1570 1490 1430	1230 1150 938 820 732	4:30 4610 4710 4790 4980	4260 4230 4230 4230 4230 4050	2560 2610 2520 2350 2310	1600 1540 1440 1230 1220	1 0 180 92 78 76	11 11 11 11 11	41 32 43
11 12 13 14 15	88 81 99 92 86	232 265 380 456 514	727 1020 1490 1510 1720	1430 1590 1610 1640 1620	1090 1330 2000 2030 2280	5100 5250 5250 5260 5280	3860 3810 3830 3790 3790	2310 2240 2550 2500 2510	1160 1070 1020 1110 1130	68 64 64	11 11 12 12 11	46 14 14 14 14 14 14 14 14 14 14 14 14 14
16 17 18 19 20	168 92 267 324 180	550 800 1420 380 404	1740 1730 1720 1750 1740	1630 1640 1650 1580 1560	2480 2470 2430 2560 3190	5260 5150 5260 5600 5730	2980 2360 2910 2910 2910 2930	2360 2330 2330 2360 2320	1110 1100 1110 1090 862	64 64 59 50	10 12 11 12 12	66 70 70 72 72
21 22 23 24 25	130 102 92 99 104	404 388 448 469 456	1760 1880 1980 2070 2040	1510 1390 1390 1400 1400	3430 3630 3730 3910 4410	5640 5620 5620 5750 5800	2310 2790 2780 2900 3280	2420 2410 2410 2380 2240	732 478 412 400 329	53 57 57 57 57 57	13 12 22 36 37	81 118 5480 5280 2230
26 27 28 29 30 31	121 126 132 134 132 134	469 546 550	1990 1320 2000 2200 2210 2080	1740 1820 1320 1360 1880	4350 4350 4230 410 4480 4720	5530 5570 5580 5750 5710	3310 3320 3210 3210 3100 3050	2250 2140 2130 2130 2130 2170 2160	280 274 260 257 260	50 46 46 47	38 37 38 38	838 727 482 448 420 432
Mean	135	346	1367	1609	2567	5228	3689	21,22	1043	89.7	20,1	565
Ac-Ft	8300	19230	84040	95760	157800	311100	226800	148900	62070	5520	1200	34730
Magimum Diachar	ge of racor	year 9380 d 91,000 d) c.f.s. De c.f.s. Nova	camter 23, imbar 19, 1	1955 1950		-	Te	otal Runoff Acre-Feet		ndar Year r Yeer	1155450 1126090

U. S. Geological Survey and Division of Watar Resources cooperative station located 0.5 mile downstream from nighway bridge at Pladre. The Kings River flows into the Tulare Lake area and during high stages into the San Joaquin River via James By-Pass. Drainage area 1694 square miles. Period of record 1895 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 162

FLOW OF KAWEAH RIVER NEAR THREE RIVERS - 1955

Data													
paça	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	604 458 232 182 167	207 200 172 160 167	347 367 343 321 318	576 604 485 438 395	698 620 598 722 792	1150 975 989 1240 1620	424 403 375 330 310	75 74 72 69 71	37 36 34 33 31	23 22 22 22 23	24 24 24 27 26	172 304 153 118 112	
6 7 8 9 10	149 136 129 123 167	158 153 160 170 179	310 318 343 375 383	391 403 428 510 626	926 1190 1010 926 1110	1910 2160 2140 2160 2000	237 271 256 250 241	90 36 77 71 66	30 32 34 33 31	24 23 21 22	26 27 26 24 24	436 484 230 1050 446	
11 12 13 14 15	151 138 138 131 131	189 192 197 210 227	387 367 359 363 347	565 543 632 680 710	1360 1600 1670 1490 1070	1640 1400 1200 1030 1060	232 224 216 205 200	61 60 51 5 53	30 23 27 29 29	22 22 26 23 23	26 23 32 77 71	300 256 238 221 207	
16 17 18 19 20	268 197 315 328 247	515 4090 1450 786 592	324 297 300 300 297	710 609 609 516 533	926 891 1030 1440 1670	926 891 898 884 884	192 182 172 170 151	51 1,8 1,7 1,7 1,6	30 31 32 41 30	24 22 21 21 24	57 71 72 88 108	194 182 172 165 170	
21 22 23 24 25	213 194 1¢2 205 202	470 415 375 339 318	274 281 297 332 407	510 752 638 753 305	1090 2020 2040 1840 1340	812 760 662 626 570	142 130 136 131 120	43 42 42 43	32 33 30 29 30	23 29 26 22 22	138 160 97 82 77	179 2570 42800 15100 8210	
26 27 28 29 30 31	202 205 207 213 213 213 210	324 343 351	470 543 538 540 510	792 642 698 630 626	1190 1 20 1770 1910 1920 1960	521 500 190 170 1446	114 106 99 01 46 67	465 452 420 39	28 27 26 27 24	23 228 24 24 24 24	77 81 88 91 83	5500 14340 3330 2400 1 110 1660	
Mean	214	448	372	197	1304	1100	204	56.3	31.0	23.2	02.0	3-35	
-Pt	131:0	26000	22870	35550	80210	05.30	12540	3460	1=.10	1,430	3640	140600	

U. S. Geological Survey and Division of Water Resources coolerative station located three files continuest of Three Rivers peat office. Kawaak River is a tributery of the Tilare Lake stat. Ford of record 1930 to date. Frior records available at a site two miles upstream. Records for 1.55 were com, uted by the U. S. Geological Survey.

TABLE 163 FLOW OF TULE RIVER NEAR PORTERVILLE - 1955

Data					Qaily	Msan Flow	in Second-1	Faet				
Data	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	No∀.	Oac.
12745	168 261 115 87 77	93 96 83 77 74	129 129 120 118 113	110 113 107 100 94	170 160 152 164 164	127 113 100 96 96	19 18 13 13 13	0.8 0.8 0.7 0.7 0.6	0.1 0.1 0.1 0.1	0.1 0.1 0.1 0.1 0.1	4.6 4.5 5.5 5.9	111 152 70 55 45
6 7 8 9 10	72 66 62 60 33	73 71 70 71 72	110 110 115 120 122	93 87 82 82 79	172 214 256 224 217	102 112 110 104 98	13 10 8.9 8.9 8.9	0.6 0.6 0.4 0.4	0.1 0.1 0.1 0.1 0.1	0.1 0.1 0.3 0.3	999 455 56655 56	399 323 129 436 244
11 12 13 14 15	84 70 67 64 63	714 74 77 80 88	134 134 125 122 113	75 74 77 83 80	220 234 236 227 189	92 84 79 73 70	8.3 7.3 6.9 5.7	0.4 0.4 0.3 0.3 0.3	0.1 0.1 0.1 0.1 0.1	0.4455	5.7 6.6 7.1 30 29	152 118 102 92 84
16 17 18 19 20	166 220 178 217 132	117 1220 637 309 227	105 99 94 92 94	78 77 83 84	164 148 134 136 144	67 61 58 53 48	5.00	0.3 0.3 0.3 0.3	0.1 0.1 0.1 0.1 0.1	0.5 0.6 0.7 0.7 0.8	24 26 28 29 34	78 70 68 63 59
21 22 23 24 25	102 93 87 87 88	185 160 150 134 123	93 92 90 02 96	87 185 158 158 152	150 172 176 174 152	439 35 314 30	3.4 1.9 1.6 1.1	0.3 0.3 0.2 0.2	0.1 0.1 0.1 0.1 0.1	1.1 1.1 1.1 1.3 1.7	46 57 38 31 29	60 376 9090 2230 1260
26 27 28 29 30 31	87 86 86 87 88 92	142 146 154	105 113 113 120 118 108	176 154 154 150 148	136 129 131 131 132 129	27 25 24 23 22	0.9 1.0 0.9 1.0 1.0 0.9	0.2 0.2 0.2 0.2 0.2	0.1 0.1 0.1 0.1 0.1	2.0	27 28 29 28 28	1100 1180 840 608 476 421
Maan	106	174	111	109	173	08.2	6.4	0.4	0.1	1.1	20.5	663
Ac-Ft	6540	9670	6820	6490	10650	4060	396	24	6	68	1220	40740
Maximum Dischar		r year 24, rd 25,500	200 c.f.s. c.f.s. Nov	Decemoer ember 19,	23, 1955 1950				otal Runoff n Acre-Feet	Calan Watar	dar Yaar Yaar	86684 50251

U. S. Geological Survey and Division of Water Resources cooperative station located at highway bridge one mile upstream from the South Fork. Drainage area is 266 square miles. Period of record 1901 to date. Records for 1955 computed by U. S. Geological Survey.

#### TABLE 164

FLOW OF TULE RIVER AT WORTH BRIDGE - 1955

Date					Daily	Mean Flow :	In Sacond-F	Paat				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	139 370 159 113 95	117 117 102 92 89	171 171 163 159 155	139 143 139 127 113	188 188 179 188 192	131 113 99 92 89	7.6 7.6 6.4 6.4 6.4	0.2 0.3 0.1 0			0.1 1.2 3.2 4.0	132 222 95 73 53
6 7 8 9 10	89 85 82 79 113	85 82 79 79 79	151 147 15° 163 167	109 106 102 102 89	205 248 260 248 239	95 102 106 95 89	7.0	0000000			5.40.40.6	586 483 217 584 309
11 12 13 14 15	120 99 95 82 69	79 82 82 92 106	179 188 175 167 159	69 61 69 82 82	239 248 253 248 217	85 79 69 69 58	4.40 3.20 3.20	0 0 0 0	N O	N O	3.2 4.9 13 17	209 171 147 135 120
16 17 18 19 20	202 171 220 270 171	127 1710 949 397 290	143 127 124 124 124 135	73 69 89 82 85	192 175 159 159 159	58 53 46 41 36	3.6 3.2 3.6 3.2 3.2	0 0 0 0	F L O W	F L W	16 25 26 21 31	109 99 92 85 79
21 22 23 24 25	131 117 106 109 109	239 213 192 175 167	131 131 127 131 135	89 200 179 179 175	163 175 184 184 163	31 26 21 20 16	2.8 1.8 1.6 1.2 1.2	0 0 0 0 0			51 85 51 39 29	79 410 13400 3020 1670
26 27 28 29 30 31	109 100 102 106 104 117	179 184 200	143 159 155 163 159 130	200 179 179 163 163	147 135 135 131 135 135	12 11 10 9.4 8.8	0.9 0.6 0.6 0.5 0.3		_		21 19 22 25 26	1380 1440 1010 770 556 497
Mean	130	22 -	152	121	190	.0	3.6	0.0	0	0	10.1	911
Ac-Ft	3010	12660	0320	7210	11690	3510	222	1	-	0	1330	56000
Maximum Dischar		ar year 27 ord 27,000							tal Runoff Acre-Feet		ndar Year Year	109953 53290

U. S. Geological S rvey and Division of Water Resources cooperstive station located one sile above the head of Porter Slough ord 2.2 lies dew.stream. from the junction of South Fork. Feriod of record 1944 to date. Records for 1955 computed by U. S. Geological Survey.

TABLE 165 FLOW OF TULE RIVER AT TURNBULL STATION - 1955

Dete					Daily	Mean Flow	in Second-	Feet				
Dete	Jan.	Fab.	Merch	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345		00000										00000
6 7 8 9 10		00000										00000
11 12 13 14 15	N O	00000	N O	N O	.1 0	N O	N O	n O	N O	N O	N O	0 0 0 0
16 17 18 19 20	F L O W	0 0 22 18	F L W	F L O W	F L O W	F L V	F L O W	F L O W	F L O W	F I. 0 W	Fi Li C ₹	0 0 0 0
21 22 23 24 25		0.2 0 0 0										0 0 914 1940
26 27 28 29 30 31		0000										1910 1620 1440 1300 1020 682
Maan	0	1.4	0	0	0	0	0	0	0	0	0	350
c-Ft	0	80	0	0	0	0	0	0		0	0	21510
eximum ischar		discharge	calendar j	7ear 2090 c	.f.s. Dece	ember 25, 1	955.		Total Runoff In Acra-Paet		dar Year Year	21590 80

Division of Water Resources and U. S. Bureau of Reclamation cooperstive station located 1200 feet downstream from the Corcoran-Angiola Highway bridge, 39.2 miles downstream from the junction of South Fork. This atation measures inflow to Tulare Lake area and at times the flows are a combination of direct Tule River water, Kaweah River water via Elk Bayou, and Kings River water via Homeland Ganal, and waste water from Tulare Irrigation District. Feriod of record 1942 to date. Records for 1955 computed by Division of Water Resources.

#### TABLE 166

FLOW OF KERN RIVER NEAR BAKERSFIELD - 1955

					Dail3	7 Maan Flow	in Second	-Feat	······			
Deta	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 うしょう	317 423 384 317 291	346 362 337 296 304	426 436 424 426 423	847 847 796 754 714	597 575 558 570 568	1095 1001 929 884 907	976 945 949 945 957	451 419 451 499 509	192 179 182 182 196	21,2 207 196 187 179	168 169 172 172 175	300 416 323 273 260
6 7 8 9 10	290 269 265 273 286	326 319 319 320 324	408 406 415 422 445	675 667 663 638 682	566 579 567 562	1038 1292 1513 1730 1797	948 911 851 808 730	520 556 537 464	288 255 256 292 299	175 155 151 150 149	178 190 258 265 264	362 583 497 451 508
11 12 13 14 15	286 256 266 283 <b>301</b>	3442 3442 3144 352 365	471 557 639 658 640	698 660 632 627 541	562 560 616 702 792	1735 1480 1335 1286 1230	749 800 795 786 750	473 451 437 424 482	<b>336</b> <b>337</b> 283 276 228	154 164 158 159 163	255 256 261 277 212	494 450 420 385
16 17 18 19 20	359 326 346 380 340	410 507 589 589 539	618 623 617 599 596	643 638 635 609 611	787 778 734 729 766	1179 1248 1242 1249 1249 1242	703 669 598 563 533	479 466 429 429	214 214 205 196 169	162 167 166 162 165	205 227 229 249 249	367 351 347 331 308
21 22 23 24 25	324 317 340 349 347	1,85 453 422 418 420	612 552 554 559 591	634 624 593 585 568	892 964 1026 1085 1126	1195 1139 1110 1127 1116	512 509 556 546 538	433 422 400 354 324	166 166 168 164 164	167 172 174 164 161	205 284 241 234 231	317 345 468 584 588
26 27 28 29 <b>3</b> 0 <b>3</b> 1	345 334 335 340 347 344	425 431 1429	636 686 724 723 738 856	5714 583 583 586 592	1090 1024 993 1048 1135 1169	1107 1091 1079 1018 1005	548 544 535 527 508 471	300 222 211 193 198 192	158 158 183 205 214	157 163 167 169 169 169	2253 2337 2337 2399	585 609 560 490 497
Mean	322	347	¢64	653	784	1213	704	1,08	217	169	229	435
Ac-Ft	19800	22060	34670	38670	48190	72200	43260	25060	12940	10/100	13600	20740
Max1mum Diechar									Total Runof in Acro-Fee		ndar Year r Year	367790 306595

Kern County Im d Company station located five miles nort east of Bakerefield (also known as Kern River at First Point). Drainage area 2020 equaremiles. Kern River is a tritutary of the Tilere Lite Basin. Period of record 1993 to date. Records for 1975 computed by Kern County Land Company. Il flows are computed from the noon baginning at non of day shown. DELIVERY FROM FRIANT-KERN CANAL TO TULE RIVER - 1955

Date					Daily	Mean Flow	in Second	-Feet				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dac.
12745			0 0 0 0	205 205 309 315 309	000	0 0 0 0	497 497 477 465	468 462 165 0	0 67 500			0 0 C C
6 7 8 9 10			0 154 264 264 264	300 292 283 281 283	0 0 0 0	0 0 93 502	453 451 4451 447	0 0 103 492	500 500 500 408			0 0 0 0
11 12 13 14 15	N O	N O	264 251 356 361 363	54	0 0 0 0	500 484 453 433 442	459 466 471 471 134	492 495 474 460 460	484 139 0 0	N O	N O	C O O O O O
16 17 18 19 20	F L O W	F L W	370 375 375 375 375 375 377	000000000000000000000000000000000000000	0 0 0 257	468 477 448 435 433	0 0 67 500	460 460 448 447 447	0 0 0 0	FL O W	F L O W	0 0 0 0 0
21 22 23 24 25			313 342 326 324 342	0 0 0 0	433 447 463 485 485	445 466 477 481 140	500 489 487 453 477	432 439 447 186	0 0 0 0 0			0 0 *450 *310 0
26 27 28 29 30 31		=	366 375 370 363 346 333	0 0 0 0	432 427 411 385 105 0	0 0 0 88	478 465 465 4772 4774	000000	0 0 0 0			
Mean	0	0	268	09.2	139	242	403	281	123	0	0	24.5
Ac-Ft	0	0	16457	5903	8549	14420	24810	17306	7315	0	0	-1500
Maximum Dischar									Total Runoff in Acre-Fest	Calen Watar	dar Year Year	96260 94760

This flow is the delivery from Friant-Kern Canal into Tule River under contract agreements with b U. S. Bureau of Reclamation. U. S. B. reau of Reclamation. * Estimated

#### TABLE 168

DELIVERY FROM FRIANT-KERN CANAL TO PORTER SLOUGH - 1955

Date					Daily	Msan Flow 1	n Second-	Faet				
Date	Jan.	Fab.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345		0000				0 0 0 0					1.8 1.2 0 0	
6 7 8 9 10		000000000000000000000000000000000000000									0 7 7 0 0	
11 12 13 14 15	N O	000000	N O	N O	N O	0 22 40 10	N N	N O	N O	N O	0 0 0 0	N O
16 17 18 19 20	FLOW	00000	F L V	F L O W	문 다 W	45 0 0 0	F L U W	F L W	ЪLO V	e L O W	00000	F L ( W
21 22 23 24 25		00000									00,000	
26 27 28 29 30 31		23 35 21				0 0 0 0					0000	
Mean		_ <b>.</b> 8	0	0	0	:• °	0	0	0	C	.1	0
Ac-Ft	0	157	0	0	0	352	0	0	0	0	6	
Meximum Discher									Total Runoff in Acre-Feet	Calen Water	dar Year Year	515 11°1

F s flow is the delivery from Frist-Kern Cashing - Porter State onder the rest at restauts with the U.S. burget of Recht tic. Tis intic f delivery is st the intersection of Porter State with the Friant-Kern Canal at r xinital four files wast "Porter". Records for 1.5 on ted by U.S. Burget of Reclamation.

TABLE 169 FLOW OF SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2 - 1955

Dete					Deily	Mean Flow	in Second-	Feet				
Dara	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 745								00000	20 20 20 20			
6 7 8 9 10								0 0 0 0	20 19 20 20 87			
11 12 13 14 15	N O	N Q	N O	N Q	N O	N O	N O	000000000000000000000000000000000000000	153 9.0 9.0 9.0 9.0	N O	N O	N O
16 17 18 19 20	F L Q W	F L N	FL OW	F.L O W	F L O W	F L O W	F L Q W	0 7.0 16 16 16	23 40 42 42	Pr Li O W	FLOW	PL O W
21 22 23 24 25								18 20 20 20 20	13 0 0 0			
26 27 28 29 30 31				_		_		20 20 20 20 20 20	0 22 22 6			
Mean	0	0	0	0	0	0	0	8.8	23.5	0	0	0
c-Ft	0	0	a	٥	0	0	0	542	1400	a	0	0
eximum 1scher,								11	otal Runoff n Acra-Feet	Water		1941 1941

Kings River Water Association station located one mile southwest of Stretford. THis station measures inflow of King River star to the Tulere Lake eres. Period of record 1937 to dete. Records for 1955 computed by Kings River Water Association.

Date					Deily	Mean Flow	in Sacond-	Feet				
Dave	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345												00000
6 7 8 9 10												000000
11 12 13 14 15	N O	N O	N O	N O	N O	N O	N O	N O	N O	N O	N O	00000
16 17 18 19 20	F L O W	F L O W	F L O W	F L W	F L O W	F L O W	P L V W	F L O W	F L O W	P L O W	F L ₩	0000
21 22 23 24 25												0 0 700 2 ¹ 450
26 27 28 29 30 31		=				_			_			1200 75 0 0 0
Mean	0	0	0	0	0	0	0	0	0	0	0	143
ic-Ft	0	0	0	0	0	0	0	0	0	0	0	8777
eximum lecharge	0							1	Total Runoff In Acre-Feet	Calen Water	dar Year Year	8777 0

TABLE 170 FLOW OF CROSS CREEK BELOW LAKELAND CANAL #2 - 1955

Corcoran Irrigation District station located below the Greas Greak weir, four miles east of Guernay. Greas Greak is a tributary of Tulere Lake eres. At times the flow is a combination of Kawaah River water, Kings River water and Cottonwood Greak water. Period of record 1/21 to date. Records for 1955 computed by Gordoran Irrigation District.

TABLE 171

FLOW OF GOOSE LAKE CANAL NEAR LOST HILLS - 1955

Date					Deily	Mean Flow	in Second-	Feet				
DALO	Jen.	Feb.	March	April	Mey	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12345												
6 7 8 9 10												
11 12 13 14 15	N O	N O	N O	N O								
16 17 18 19 20	F L O W	F L O W	F L O W	F L O W								
21 22 23 24 25												
26 27 28 29 30 31		=		_								
Mean												
Ac-Ft												
Maximum Dischar	n ge							1	otel Runoff In Acre-Feet	Calen Water	dar Year Year	

Division of Water Resources and U. S. Bureau of Reclamation cooperative station located approximately one-haif mile rorth of the Wasco-Lost Hills road and below the confluence of Goose Lake and main drainage canals. This station measures inflow of Kern River water to the Tulere Lake area. Period of record 1944 to date. Records for 1955 computed by Division of Water Resources. Station discontinued April 14. 1955.

TABLE 172

FLOW OF BUENA VISTA SLOUGH NEAR LOST HILLS - 1955

Date					Oaily	Mean Flow	in Second-	Feet				
Davo	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
123-45				0 0 0 0 0								
6 7 8 9 10												
11 12 13 14 15	N O	N O	N O	0 0 0 0								
16 17 18 19 20	FL OV	F L O W	F L W									
21 22 23 24 25												
26 27 28 29 30 31		=		_								
Mean	0	0	0	0								
Ac-Ft	0	0	0	0								
Meximum Dischar	.ge							Ti	otal Runoff n Acre-Fest	Celend Weter	ar Year Year	

Division of Water Resources and U. S. Bureau of Reclamation cooperative station, formerly listed as Westside Canal near Lost Hills and also known as Main Drain at Hart's Station, located at bridge on State Highway between Wasco and Lost Hills. This station measures inflow of Karn River water to the Tulare Lake area. Period of record 1944 to dats. Records for 1955 computed by Division of Water Resources. Station discontinued April 14, 1955.

# TABLE 173 DAILY ELEVATIONS OF TULARE LAKE IN KINGS COUNTY - 1955

					Daily	Elevation	in Peet (a	.)				
Date	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 M 2 M												
6 7 8 9 10												
11 12 13 14 15				Lake	dry durin	g 1955 exce	ept for fig	jures show	ì.			
16 17 18 19 20												
21 22 23 24 25												•180.0 180.5
26 27 28 29 30 31		=		_					_		_	180.8 181.0 181.3 181.6 181.9 182.2

ation is maintained and operated by Tulare Lake Basin Water Storage District. Station is located approximately six miles southwest i Corroran 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.

Date					Dail	y Mean Flow	in Second	i-Feat				
pace	Jan.	Feb.	March	April	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 245		0 1 7 7		414 +11 55 25 3	. 15 	z - Ch 2906 2307 2303 231	2001 2905 2906 2001 2001 2007	3372 3316 3371 3341 3326	2422 2423 2420 2431 2431 2430	1721 1721 1722 1722 1722 1718	43 43 427 391	
0 7 8 9 10	1 .4 C	34	11.4 11.3 137 135	25-1 25-1 2571 2561	1729 17- 19-3 19-7 1609	2318 2936 2 77 304 1 3050	2006 2929 2925 2925 2922	3354 3354 3217 321	2447 2322 232 21 2 . 73	1602 1533 1-37 1-31 1-41	301 301 301 301 490	1351 0
11 12 13 14 15	0 0 111	- 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	+437 163 1.35 Light 1720	4451 -451 3. 2. 2. 4	1012 17 ( 1 15 2005 . 234	3204 3302 3328 3355 3330	2~23 2~3 3214 3210 3074	3224 3137 3141 3125 3125	1-71 1005 1-03 1663 1557	121 1320 1322 1324 1 62	500 392 392 392 392 319	00000
16 17 18 19 20	-	· .4 3 176 1	171 [°] 19 <i>1</i> , 152 160	-565 253r - 27 - 3 - 73	2. 32 -566 -7 4 -760 -755	3196 31 6 32 1 32 0 32 4	3070 3072 3113 3137 314	2-43 - 341 - 38 - 34 2-2	1 56 1650 1657 1 00 166	1061 63 - 63 6	31 319 212 212 213	0000 t-
21 22 23 24 25	C C	3 2 27 44 6 17	172 .717 17 1 1 · L 1 3	147 141 1-3- 1723 1-26	2 39 33733 30155 2006	32°1 31¢6 315¢ 30°2 30°3	3109 3172 3163 3157 33 4	2 3 4 2 400 2 704 2704 26 36	1.433 1.435 1.33 1.446	670 77 67 534 533	213 _13 212 170 175	17
26 27 28 29 30 31	r -	£.47 £.4	1012 1016 102 1022	172 1736 1944 11 1915	37 321 326 330 34	1000 17 31.6 31:3 .0_6	<b>7353</b> 3754 3353 3362 3315 3315 3315	2574 2135 211 2.20 2.20 2.20	1505 1504 15-4 .6-5 16eu	· · · · · · · · · · · · · · · · · · ·	17 175 550 412	0 0 0 0 0
Mean	+.2	.* 5	_ f	ć	370	3 *	3.0 4		a — 1	11. 3	340	13g
c-Pt	13	.+7	.047.1	131-17		1.31 12	1-0440	1 42-5	10 401	62064	24.16	0460

TABLE 174

orda f r 1955 ~ mputed by the U. S. Bureau of Reclamation. runbrug

				TAB	LE	175						
FLOW	OF	CONTRA	COSTA	CANAL	AT	PUMPING	PLANT	NO.	1	-	1955	

Date					Daily M	iean Flow	in Sacond-	Feet				
Dace	Jan.	Fab.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
12 345	32 33 33 44	28 33 28 31 31	32 32 32 32 32 32 32 32 32 32 32 32 32 3	49 62 59 64 63	78 56 465 56	93 87 80 56 118	98 92 91 91 52	105 09 103 110 111	106 106 109 110 105	64 66 74 88 67	51 52 57 59 61	42 40 41 41 39
6 7 8 9 10	36 32 31 29	32 32 34 35	30 32 34 35 32	66 71 73 75 75	53 57 59 60 61	112 119 121 123 118	96 104 117 111 111	105 106 108 107 103	103 100 104 105 103	62 65 71 65 68	62 62 65 65	40 53 46 44 42
11 12 13 14 15	30 27 30 29 27	29 31 33 31 60	33 332 332 322 322	77 77 77 81 97	66 68 66 68 63 65	114 106 100 98 101	106 103 109 115 110	104 106 109 110 105	100 102 104 104 104	61 64 59 55	6450.550 5550	44 41 42 45 46
16 17 18 19 20	25 24 23 23 27	55 56 64 32 35	35 34 33 37 37	96 90 83 79 73	60 70 69 71	111 119 116 105 104	116 112 105 99 106	103 102 104 108 105	92 90 34 88 \$7	532 552 554 53	54450.8 54444	1555 1455 1455 1452
21 22 23 24 25	28 32 31 20 31	58 32 49 65 37	37 37 42 40 53	73 77 77 76 76	7 <b>3</b> 744 92 85	105 110 113 109 106	105 101 100 102 103	97 88 90 36 84	93 90 81 81 85	54 58 54 51 54	48 48 42 43 43	43 36 35 37 35
26 27 28 29 30 31	33 32 32 32 33 31	31 34 32	54 58 49 59 63 51	70 78 76 79 79 70	69 83 01 89 85 100	104 103 97 101 100	103 105 112 110 105 105	104 98 98 95 95 95	100 97 102 102 99	52 51 53 54 51		26 30 34 35 41 35
Mean	30.7	3-3-5	39.0	75.1	70.9	106	105	101	98.1	59.4	52.5	40.5
Ac-Ft	1886	2140	2400	4464	4360	6325	6434	6230	5842	3650	3122	2489
Maximum Dischar								1055	Total Runoff in Acre-Feet	Watar	dar Year Year	49342 47588

This flow is the divarsion of Contra Costa Canal from Rock Slough. Records for 1955 computed by U. S. Bureau of Reclamation.

TABLE 176

RECORDING TIDE GAGES IN SACRAMENTO-SAN JOAQUIN DELTA AND SUISUN BAY

Name of Station	Operated by*	Location	Date Installed
		Sacramento Delta	
Clarkaburg	DWR	Right bank of Sacramento River at American Crystal Sugar Company dock.	1936
Collinaville	DWR	Right bank of Sacramento River on pile dolphin about 0.1 mile upstream from junction of Main Street and river.	June 1929
Ialeton	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 $l_2^{\frac{1}{2}}$ miles below Rio Vista Eridge.	April 1908
Snodgrasa Slough	DWR	Left bank of Sacramento River about 0.1 mile above Hollister Landing and about $\frac{1}{5}$ mile above head of Snodgrass Slough (now leveed off).	Aug. 1939
Three Mile Slough (Sacramento)	DWR	Pile dolphin about 0.1 mile from Three Mile Slough Bridge on Brannon Ialand side.	April 1929
Walnut Grove	DWR	Left Bank of Sacramento River at head of Georgiana Slough; lower end of town of Walnut Grove.	Peb. 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 $\frac{1}{2}$ mile west of Wright Cut. At Montezuma Ranch headquarters of California Facking Corporation.	Jan. 1942
Liabon	DWR	Left bank of Yolo By-Fasa below north and of Sacramento Northern Railroad treatle.	1920
		<u>San Joaquin Delta</u>	
Antioch	DWR	On wharf of Antioch Water Works.	June 1929
Brandte Bridge	DWR	Right bank of San Joaquin River at Brandte Bridge between Roberts Island and Reclamation District 17.	July 1940
Burns Cut-Off	USBR	On Stockton Ship Channel at East Bay Municipal Utility District croasing; northwest corner of Rough and Ready Island.	May 1940
Delta Croas Channel	USBR	Left bank approximately 1000 feet below head near Walnut Grove.	Sept. 195
Grant Line Canal	USBR	Right bank of Grant Line Canal at Tracy Road crossing.	Oct. 1940
Middle River at Bacon Island	USBF	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 Roberta Island.	July 1948
Moasdale Bridge	DWR	Right bank of San Joaquin River juat below U. S. 40 highway crossing.	1920
Old River at Clifton Court Perry	DWR	Left bank approximately 2000 feet downstream from junction with Grant Line Canal.	Dec. 1948
Old River at Holland Tract	USBR	Left bank about $l_2^{\frac{1}{2}}$ miles south of northeast corner of Holland Tract.	Sept. 195
Old River at Mansion House	DWR	Right bank on timber dolphin at Maneion House on Victoria Island.	Aug. 1939
Old River near Rock Slough	DWR	Left bank of Old River $1\frac{1}{2}$ miles north of junction with Rock Slough on American Island.	Mar. 1945
Old River near Tracy Road Bridge	DWR	Left bank at Galli'a Pump, Mile 53.0. About 1000 feet upstream from Tracy Road Bridge.	Mar. 1952
Rindge	DWR	At southeast corner of Rindge Tract on Fourteen Mile Slough at junction with Ship Channel.	July 1939
Rock Slough	USBR	On Contra-Costa Canal intake approximately $l_2^1$ miles northeast of Knightsen. (No record: Pebruary to December 1946).	Oct. 1944
San Andreas Landing	USBR	On right bank of San Joaquin River approximately $l_{x}^{\frac{1}{2}}$ miles downstream from junction of Mokelumne River.	May 1952
Stockton	DWR	At head of McLeod Lake on Center Street.	Dec. 1927
Tom Faine Slough	DWR	At mile 2.2 above mouth (0.1 mile east of mouth of Sugar Cut).	June 1951
Three Mile Slough (San Josquin)	DWR	On Sherman Island at Reclamation District 341 drainage plant on plle dolphin. Near junction of Slough with San Joaquin River.	June 1929
Venice Ialand	DWR	At Blakea Landing on Stockton Ship Channel near Venice Island headquarters.	Jan. 1928
		<u>Suisun Bay</u>	
Benicia	DWR	North aide of Suisun Bay. On Benicia Arsenal wharf.	8April 1940

DWR - Division of Water Resources; USBR - United States Bureau of Reclamation.
 Gage originally installed June 1929 and operated until October 1931 by Division 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.

			Acreage			Irrigation		s Duty Water	Runoff in % of Normal
	Year	General	Rice	Total	Diversion Acre-Feet	Draft Average c.f.s. July	Ac. Ft. per Acre	Acres per Sec. Ft.	Sacto. R. ət Red Bluff
Sacramento River Redding to Sacramento	1946 1947 1948 1949 1950 1951 1952 1952 1953	117600 121600 149700 143500 152800 162200 142900 134900 139800	124100 124000 137300 108500 140800 139100 164600 184900	241700 245600 273800 280800 261300 303000 282000 282000 299500 324700	1778000 1707000 1593000 1873000 1975000 1975000 2018000 2091000	5560 5600 6344 5943 5943 5987 6829 7301	(a) 28876743663	(a) 67 71 855 74 76 77 73 77	100 63 95 71 113 143 120 115
	1955 Av. 1946 to 1955	165700 143100	136400 138400	302100 281500	2096000 1873000	6796 6296	6.8 6.5	71 74	70 96
Colusa Trough above Highway 20 Bridge	1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 Av. 1946 to 1955	3030 1040 3140 4930 5140 3520 2810 4940 3580	3690 6570 4740 5560 5150 6640 7280 11010 11790 6970 6940	6720 7610 7990 8700 10690 12420 14530 14600 11910	71200 80500 67500 108100 130200 162300 175000 158800 156600 124000	256 281 275 353 417 519 618 706 509 424	(b) 10.6 10.6 8.4 10.4 10.7 12.2 13.1 12.0 13.6 13.1 11.8	(b) 46 58 47 45 40 37 40 37 40 37 40 37 40 37	Sacto. R. at Red Bluff 100 63 95 75 71 113 143 120 115 70 96
Back Borrow Pit Knights Landing Outfall Gatea to Highway 20 Bridge	1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 Av. 1946 to 1955	2060 2300 2460 3230 2860 2700 3070 2470 3730 2610	7880 9040 7080 9000 6970 5900 6400 5200 4000 6740	9940 11340 9540 10270 9830 8600 9470 7670 7730 9350	70900 73900 59100 64400 73500 73500 79100 71600 68300 70300	256 254 257 203 241 295 284 295 261 258	7.152805543 7.666777889 8.7.5	68 778 769 557 58 55 55 65	Sacto. R. at Red Bluff 100 63 95 75 71 113 143 120 115 70 96
Yolo Ey-Pass and Knights Landing Ridge Cut	1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 Av. 1946 to 1955	1790 3220 1710 1650 3650 3770 2510 3960 5110 2910	3000 2980 2150 3360 540 2850 3090 2440	4790 6200 3970 3890 3570 4310 4310 4310 6810 8200 5350	30300 27200 27800 29300 40700 22500 22500 44900 41400 31200	112 110 93 84 141 40 80 192 161 110	6.4.0900896 4.78850896 5.8	77 111 69 55 59 84 172 98 74 96 83	Secto. R. at Red Bluff 100 63 95 75 71 113 143 120 115 70 96
Lower Butte Creek and Butte Slough	1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 Av. 1946 to 1955	8250 4520 7140 6980 8660 8170 8370 7090	1850 1120 660 1880 1540 1700 2850 2560 3880 3180 2120	10100 5640 9020 8740 8680 11510 9500 12050 11550 9210	45600 19800 27600 65200 53400 53400 53400 63800 54800 48200	123 58 106 205 187 206 181 218 247 226 176	4.552282623 4.35.7564.23 4.55 4.5 5.	108 138 93 67 84 79 107 93 92 102 93	Feather R. near Oroville 94 57 87 59 87 128 179 117 95 56 96

(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.

					Т	ABLE 177				
-	SUMMARY	OF	WATER	UTILIZATION	OF	SACRAMENTO-SAN	JOAQUIN	VALLEYS	(contd.)	

			Acreage			Irrigation		s Duty Water	Runoff in % of Normal
	Year	General	Rice	Total	Diversion Acre-Feet	Draft Average c.f.s. July	Ac. Ft. per Acre	Acres per Sec. Ft.	Feather R. near Oroville
East and West Borrow Fits of Sutter By-Fass and Sacramento Slough	1946 1947 1948 1949 1950 1951 1952 1953 1954 1955	9380 8840 7920 8300 11650 11120 10060 11080 11420 11580	4920 3210 2640 6180 4480 6110 5580 7450 7990 6180	14300 12050 10560 14480 16130 17230 15640 18530 19410 17760	59200 48400 36200 77600 89100 103200 78400 109700 125300 108000	217 180 149 252 329 405 284 440 477 393	4.044500.095 4.35500.095 5.1	117 121 142 91 88 81 97 82 75 80	94 57 87 128 179 117 95 56
	Av. 1946 to 1955	10140	5470	15610	83500	313	5.3	91	<b>9</b> 6
Feather River Mouth	1946 1947 1948 1949 1950	27200 28300 29500 31000 34000	51100 49700 43300 51100 41300	78300 78000 72800 82100 75300	745000 674000 586000 716000 662000	2362 2245 2292 2241 2229	9.56 8.0 8.8	51 56 60 55	Feather R. near Oroville 94 57 87 87 87 87
to Oroville Bridge	1951 1952 1953 1954	31200 30300 29100 28900 34400	56500 57900 64100 64800 47700	75300 87700 88200 93200 93700 82100	727000 727000 792000 757000 733000	2319 2438 2640 2612 2178	8.3 8.2 8.5 8.1 8.9	56 55 59 57 60 54	128 179 117 95
	1955 Av. 1946 to 1955	30400	52700	83100	712000	2356	8.6	57	96
									Yuba R. at Smartville
Yuba River Mouth to Smartville	1946 1947 1948 1949 1950 1951 1952 1953 1954	8870 8280 8720 8840 9640 9800 9120 8640	1960 3630 3120 2640 3420 3600 5300 6080	10830 11910 11840 12140 12640 13060 13400 14420 14720	98700 100100 92800 106800 127400 110300 131800 133100 140600	278 282 281 316 342 313 362 362 448	9.1 8.4 7.8 8.8 10.1 8.4 9.8 9.2 9.6	53 58 55 48 59 53 51	103 59 87 64 96 153 178 110 83
	1955	9100	4690	13790	143100	512	10.4	47	55
	Av. 1946 to 1955	9100	3770	12870	118500	350	9.2	53	99
American River Mouth to Fair Oaka	1946 1947 1948 1949 1950 1951 1952 1953 1954	2890 3670 3630 4000 4830 4560 4570 4630 4440		2830 3670 3630 4830 4830 4570 4630	4120 5910 5880 5510 4600 3950 4860 7250 4710	18 19 28 24 18 21 17 23 32 21	(a) 1.8 1.7 2.6 2.5 2.07 1.6 1.3 1.1	(a) 275 291 255 185 192 293 293 297 368 440	American R. at Fair Oaks 106 52 83 68 98 171 183 98 74 58
	Av. 1946 to 1955	4110		4110	5220	22	1.8	271	99
									Sacto. R. at Sacramento
<u>Sacramento River System</u> Sacramento River and Tributaries	1946 1947 1948 1949 1950 1951 1952 1953 1953	181100 181800 211500 208800 229500 236500 217900 204800 210800	198500 200200 187900 216500 171400 225500 222700 263700 287500	379600 382000 399400 425300 400900 462000 468500 498300	2903000 2737000 2496000 3038000 2929000 3219000 3046000 3385000 3500000	9182 9029 9428 10005 9689 10716 10123 11494 12311	(b) 7.6 7.2 7.3 9.9 9 7.0 7.0	(b) 64 68 78 68 67 70 71 67 69	100 59 90 68 131 163 115 100
	1955	247400	212200	459600	3406000	11057	7.4	66	03
	Av. 1946 to 1955	213000	218600	431600	3066000	10303	7.1	69	97

(s) Excludes diversion and acreage of Carmichael Irrigation District.
 (b) Excluded municipal and Carmichael Irrigation District diversions and acreage of Carmichael Irrigation District.

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

			Acreage			Irrigation		s Duty Water	Runoff in % of Normal
	Year	0eneral	Rice	Total	Diversion Acre-Feet	Draft Average c.f.s. July	Ac. Ft. per Acre	Acres per Sec. Ft.	San Joaquin R. near Vernalis
Uld San Joaquin River Delta Uplands (a)	$194 \tilde{\lor} \\ 1947 \\ 1948 \\ 1949 \\ 1950 \\ 1951 \\ 1952 \\ 1953 \\ 1953 \\ 1954 \\ 1954$	34260 37860 40300 42190 40230 40110 39150 41260 40740		34260 37860 40300 42190 40230 40110 39150 41260 40740	94100 98600 98100 108300 116300 105200 94800 118800 131200	276 313 315 362 344 334 355 393	2.546964990 2.2.4.6964990 2.2.4.6964990 2.3.4.690	177 187 200 189 168 185 201 169 151	100 59 73 66 81 126 167 75 74
	1955	41520		41520	130600	405	3.1	154	61
	Av. 1946 to 1955	39760		39760	109600	343	2.8	176	88
	2016	6700		6070		<i>c</i> 1.			San Josquin R. near Vernalis
Tom Paine Slough Delta Uplands	1946 1947 1948 1949 1950 1951 1952 1953 1953	5730 5280 5210 5220 4750 5210 5390 5470	320 550 470 380 360 410	6050 5830 5550 5580 5160 5210 5390 5470	19700 20200 23300 20400 22600 18800 21,00 22800	54 700 763 651 657 78	3346274602 333434602 3444	149 142 134 117 133 111 135 123 117	100 59 73 61 126 167 75 74
	1955	5520		5520	23000	66	4.2	117	61
	Av. 1946 to 1955	5290	250	5540	21200	66	3.8	127	88
									San Joaquin R. near Vernalis
San Joaquin River Stockton to Vernalis	1946 1947 1948 1949 1950 1951 1952 1953 1954	24500 25120 26550 26600 26610 24750 27270 27360		24500 25120 25550 26950 26600 26610 24750 27270 27360	77200 84500 66600 78600 84600 74900 58700 85800 85800 87500	250 251 226 243 277 242 199 295 299	246928412 2028412	154 144 186 167 153 173 205 154 152	100 59 73 66 81 126 167 75 74
Delta Uplands	1955	27630		27630	94100	301	3.4	143	61
	Av. 1946 to 1955	26230		<b>2</b> 6230	79200	258	3.0	161	88
									San Joaquin R. near Vernalis
San Joaquin River Vernalis to Fremont Ford	1946 1947 1948 1950 1950 1952 1952 1953 1954	43090 43080 46380 48110 48740 47400 51640 49990	1400 1360 540 620 730 620 1500 2480	44490 44440 46920 46400 48500 49470 48020 53140 52470	160000 181400 166900 175100 172700 147300 205900 200900	520 554 4751 5377 571 578 673 618	5.1 3.4 3.4 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1	135 119 157 135 135 139 158 125 127	100 59 73 61 126 167 75 74
Bridge	1955	50840	720	51560	193200	595	3.7	130	61
	Av. 1946 to 1955	47500	1040	48540	174800	560	3.6	135	88
									Merced R. at Exchequer
Merced River Mouth to below Snelling	1946 1947 1948 1949 1950 1951 1952 1953 1954	4480 5910 6490 7940 7910 8090 7460 7430 8390		4480 5910 7940 7910 8090 7460 7430 8390	14400 21100 17800 25600 23900 22200 18100 29700 29300	59 71 80 92 78 78 64 103 113	267207405 207405	151 136 177 151 161 177 200 122 139	96 58 70 65 73 124 160 63 68
(b)	1955	8580		8580	30300	99	3.5	138	54
	Av. 1946 to 1955	7270		7270	23200	84	3.2	152	83

(a) Excluding diversions and acreage irrigated by Delta-Mendota and Contra Costa Canals.
 (b) Excluding diversion and acreage of Merced Irrigation District.

TABLE 177													
SUMMARY	OF	WATER	UTILIZ ATION	OF	SACRAMENTO-SAN	JOAQUIN	VALLEYS	(contd.)					

			Acreage General Pice		Diversion	Irrigation Draft		s Duty Water	Runoff in \$ of Normal
	Year	General	Rice	Total	Acre-Feet	Average c.f.s. July	Ac. Ft. per Acre	Acres per Sec. Pt.	Tuolumne R. near La Grange
Tuolumme River Mouth to La Grange Dam (a)	1946 1947 1948 1949 1950 1951 1951 1953 1953 1954	3560 3760 3740 4410 4690 4500 4790 5280 5760	120 140	3560 3760 3740 4690 4500 4790 5400 5900	4920 7470 6230 6440 4620 5080 11350 14610	15 20 21 18 18 14 18 34 50	1.4 2.0 1.7 1.3 1.0 1.1 2.1 2.5	352 245 292 3374 473 458 231 196	102 596 684 134 165 83 78
(-)	1955	6290		6290	14430	45	2.3	212	61
	Av. 1946 to 1955	4680	20	4700	8120	25	1.7	281	91
									Stanielaus R. below Melones
Stanislaus River Mouth to Goodwin Dam	1946 1947 1948 1949 1950 1951 1951 1953 1953 1954	6340 6600 7920 8550 8440 8340 7770 8900 9290		6340 6600 7920 8550 8440 8340 7770 8900 9290	26800 30100 29700 34000 334700 30200 42500 44100	82 88 99 106 102 99 91 136 129	4.08000 4.3344 3444 3444 3444 3444	115 107 130 122 123 117 125 102 102	102 55 77 64 146 165 83 77
(b)	1955	10040		10040	46100	134	4.6	106	59
	Av. 1946 to 1955	8220		8220	35200	107	4.3	113	92
									San Joaquin R. near Vernalis
San Joaquin River System San Joaquin River Stockton-Premont Ford Bridge and Tributaries	1946 1947 1948 1949 1950 1951 1952 1953 1954	122000 127600 135500 141000 141200 141200 141200 147200 147200	1700 1900 1000 800 1200 600 1600 2600	123700 129500 136500 142000 142000 142300 142300 142800 148800 149600	397000 443000 383000 443000 460000 437000 373000 515000 530000	1256 1358 1282 1412 1437 1419 1282 1661 1661	248121755 3323321755 23332233	151 142 173 156 150 158 179 140 137	100 59 73 66 81 126 167 75 74
	1955	150400	700	151100	532000	1645	3.5	138	61
	Av. 1946 to 1955	139000	1300	140300	451000	1443	3.2	151	88
Combined above Delta									Sacramento and San Joaquin Rivers to Delta
Sacramento River and Tributaries -and San Joaquin River Stockton-Fremont Ford Bridge and tributaries	1946 1947 1948 1949 1950 1951 1952 1953 1954	303100 309400 347000 370700 377600 354400 352000 357800	200200 202100 188900 217500 172200 226700 223300 265300 290100	503300 511500 535900 567300 542900 604300 577700 617300 647900	3300000 3180000 2879000 3481000 3389000 3656000 3419000 3900000 4030000	10438 10387 10710 11417 11126 12135 11405 13155 13986	(0005000000000000000000000000000000000	(c) 75 79 80 78 81 82 77 78	100 59 68 83 131 164 104 92
	1955	397800	212900	610700	3938000	12702	6.4	76	62
	Av. 1946 to 1955	352000	219900	571900	3517000	11746	6.1	79	95

(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.

TABLE 178													
DIVERSIONS	ANO	ACREAGES	IRRIGATED -	SACRAMENTO	RIVER	-	1955						

	Mile	Number		M	onthly f	lversio	ons in A	lcra-Fee	t		Total		
	and Bank above	and Size of					r	·	,		Diversion Mar. to Oct.		Irrigated
Water User	Sacramento	Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Acre-Feet	Coreral	Nice
"M" STREET BRIDGE - SACRAMENTO	0.0												1
CACING STATION - SACRAMENTO RIVER AT SACRAMENTO	0.43L												
City of Sacramento	0.8L	3-18" 2-20" 2-24"	2663	2789	3625	4598	4980	5087	4002	3074	a 30818	Muni	cipal
AMERICAN RIVER	1.1L												
BACK HORROW PIT RECLAMATION DISTRICT 1000	1.3L					ļ							
Fourness Estate b	1.45R	1-8"		22	50	125	208	158	48		611	157	
RECLAMATION DISTRICT 1000 DRAIN	2.1L												
Elmer F. Christophel	2.15L	1-8"	32	16	18	44	143	12	23		188	35	
D. D. Parr	3.15L	1-0"				14	9				23	20	
Rose Orchard	3.55R	1-16"			102	396	369	128	187		1182	170	
Evergreen Farms	3.75R	1-6"				NO D	IVERSIO	N	1				
M. Owyang	4.0R	1-10"		21							21	35	
SACRAMENTO WEIR RECORDER STATION	4.2												
Reese and Greer	4.65R	1-7"				22	23				45	58	
George W. Reed	5.05R	1-12"		90	36	39	85	107	60		417	90	1
Mary S. Seydel Estate	5.25R	1-6"	11	27	22	69	93	14	2		238	57	
A. R. Markley	5.3R	1-6"			1	20	6	12			39	30	
Lucy Cesselman	5.5R	1-6"				19	21				40	30	
A. A. Casselman	5.55R	1-8"		18	30	31	31	5		İ i	115	68	
J. E. Handy	6.0R	1-6"					IVERS IO	1					
Riverside Mutual Water Company	6.1L	2-18"	22	729	675	1629	1596	1728	513	83	6975	1758	115
W. W. White	6.6R	1-6"		125			IVERSIO	1				-12-	
RECLAMATION DISTRICT 1000 DRAIN #3	6.85L	1-0											
Fred C. Jones	7.5L	1-8"				12	58	50	15		135	97	
A. Marty and C. Inderkum	7.7R	1-8"		36		76	120	148	48		428	c,d 233	
M. R. Williamson	7.8L	1-10"				38	26	47	ι		112	86	
E. D. Willey	7.9L	1-10"		17		77	73	74	34		275	135	
A. Marty and C. Inderkum	8.25R	1-8"					17	59	10		86	с	
A. Marty and C. Inderkum	8.3R	1-8"		2	47	53	58	50	48		d 258	120	
Pearl Blauth	8.5R	1-7"			2	25	18	5			50	40	
H. Waldeck	8.7R	1-6"					IVERSIO	1					
Fong Shee Farm	9.3L	1-10"		20	72	201	282	209	89		873	232	
Henry Amen and E. C. Peabody	9.35R	1-14"		83	147	367	279	300	159		1335	e 408	
Fred C. Jones	9.8L	1-8"		16	7	27	30	29	18	1	128	29	
Carl Casselman	9.9R	1-12"		5		74	114	207			400	130	
Lloyd M. Robbins	10.25L	1-14"		9	31	66	89	82	30		307	292	
Leona Hughea	10.65R	1-12"			32	60	82	115	69		358	195	
Edward Russell	10.75L	1-12"	3	6	27	69	82	16			203	120	
W. A. Ten Eyck	10.75D	1-12"		170	162	320	281	268	198		1399	310	
		1-16		110		1					-,,,,		
ELKHORN FERRY	11.9 12.0R	4-36"		3438	9446	11590	13873	13992	4325	605	f,g 57269	h 4531	h,i 5475
Woodland Farms, Incorporated	12.5R	1-12"		430	կկկ	i 266	350	268	215		1547		в 78
Thomas O'Connor Estate William Plumb Jr.	12.7R	1-12		4	-duint	100	37	200			137	71	0 10
		1-5"				2	4	3			9	4	
Lewis Thornton	12.95R			205	56	201	1	221	218	50		k 235	
S. C. Farms, Incorporated	13.1R	1-12"		105		1	323	16	65	1		k 235	
S. C. Farms, Incorporated	13.25R	1-12"		35	92	29	14			53 163	1	a,b 2673	a 40
Elkhorn Mutual Water Company	14 <b>.1L</b>	1-24" 1-30"	կե	984	1341	3125	3059	3013	1252	103	12981	4,0 2013	a 40

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Additional acre-feet diverted: January 2,125, February 2,004, November 2,326, and Oncember 2,177. Previously listed as E. Pourness. Combined acreage for Miles 7.7R and 8.25R. The acreage listed for Mile 7.7R and 8.25R. The acreage listed for Mile 8.3R. Includes 218 acress Aman lands and 190 acres of Peabody lands. Additional acre-feet diverted: January 443, November 1,283, and December 2,358 The acreage listed for Mile 12.5R also received 135 acre-feet of water from Mile 12.0R. This acreage also received 738 acre-feet of water from Willow Slough, 2,790 acre-feet of water from Cache Creek, and an un-determined amount of water from controlled drainage. h

Of this acresse, 660 was reused as Duck Club land. Includes
1,073 acres outside of Woodland Farms, Incorporated.
 Additional acresfeet diverted: November 19.
 Combined acreage for Milee 13.1R and 13.25R. This acreage was
double cropped.
 Additional acre-feet diverted: November 36.
 Porty acress of rice and 360 acress of general crops listed for
Mile 10.1L were wholly irrigated by 2.345 acre-feet of water
from Mile 16.0L.
 Twenty nine acress of general crops listed for Mile 14.1L were
partially irrigated by 51 acre-feet of water from Mile 16.0L.

······································	Mile	Lunber	mber Montal; Giversions in Acra-Feet								Total		
	and Bank	and Size of									Diversion Mar. to Oct.	r. to Oct.	
Water User	Sacramento	Pump	Har.	Apr.	May	June	July	Aug.	Se;t.	Get.	Acre-Peet	General	Rice
Jose, h. Veresu	14.25R	1=1,"		92	240	104	367	367	273	64	a 1707	160	70
A. Bianchi	15.U	ย 1=3 ^π 1=1 ^π				2	3	1			6	3	
Donald J. Damron (c)	15.1R	1-1c."		124	64	72	127	54			441	240	
Natomas Central Mutual	1c.OL	1-24"		2669	90<~	7460	729	F695	-004	62	d.e 42272	2573	5852
Water Company		2-32" 2-38"	}										
Hershey Estate	11.27R	1-20"		1			62				63	85	
Sacramento River Ranch	Ic.28	3-14 ⁴				165	88	160	21,		The C	r 210	
Sacramento River Ranch	17.0R	1-14#				40		17			59	5	
Frenk and Ruth Lang	1".4R	1-16"				202		369	1		372	110	
Jose Alves and Sons	17.75R	1-10 "			18		38		35		95	6	1
Jose Alves and Sons	16.0R	1-20"		71	698	843	1050	1115	714		4511	g 500	1 180
N. C. Lauppe	18.2L	5-J0 m		52	30	137	258	14,0	i ida	-	001	246	
Burton H. Lauppe	10.45L	l-l4"			20	90	64	70	14	1	258	140	
Lagton Knagga	16.7R	1-24"		1767	1848	1898	2044	2046	1032		10635		426
J. L. Brannely	18.7L	1-12"		42	209	230	186	231	126		1024	40	100
SACRAMENTO TO VERONA			<u> </u>			<u> </u>				1			
Totals Average cubic feet per second			2873	13480 227	28619 405	35236 592	39749	35490	19499	4179	183121	16756	12336
Monthly use in per cent of seasonal			1.6	7.4	15.6	19.2	21.7	21.6	328 10.6	2.3			
GAGING STATION - SACRAMENTO RIVER	19.6L												
AT VERONA													
CROSS CANAL RECLAMATION DISTRICTS 1000 and 1001	19.0L												
Arthur Drown	\$(0.05S)	h 1-10"	1		62	69	70	124	95		1 420	135	
Natomas Central Mutual Water Company	#(1.0S)	1-26" 1-36"		1190	21,77	1952	2538	2514	1016	1	11700	117	915
Natomas Centrel Mutual Water Company	#(2.0S)	1-20 ⁿ 2-24 ⁿ		1501	5187	3603	4642	44,24	2432		21789	2236	21,80
B. J. Ukropina	#(3.3N)	2-24ª		60	1046	424	1298	1311	1083		5224	j 120	j,k 800
B. J. Ukropina	#(3.35N)	1-16"		384	24,0	631	773	801	353		3182	J	J
Roy C. Osterli	#(3.35N)	1-14"				75	77	413	88		653	m	=
Roy C. Osterli, Narlan Van Dyke, and Orlan Van Dyke (n)	#(3.45N)	1-36 ⁿ		35	2187	1990	1979	1994	1261	51	2 14 9498	m 595	m 685
FEATHER RIVER	20.9L					ļ							
SACRAMENTO SLOUGH	21.2L									1			
Sacramento River Ranch	21.5R	1-16"	4	47	846	795	823	8 04	399		3718	55	280
Sacramento River Ranch	21.7B	1-15"				117	82	78	2		279	115	
Sacramento River Ranch	22.5R	1-24ª				NOE	VERSIC	N					
A. P. Johnston	2ć.8L	1-16 ⁿ				49	78				127	200	
Anthony Furlan	26.0L	1-16ª					18				18	60	
FREMONT WEIR RECORDER STATION	28.0R												
Anthony Furlan	28.2L	1-12"				26	64	t₅0			130	75	
Gus Inglin	28.2R	1-6 m		10	7	23	23	22	12		\$7	29	
Relph White	28.1.2	1~8"				14	36	59	10		119	48	
Nershey Estate	25°08	1-12" 2~16"		-		344	659				2 1005	150	
Russell Brothers	2++2R	1-12"				15	94	41	8		150	100	
Sebastian Yturralde	29.9L	1-12"		У		32	35	63			14,3	105	
7. R. Bichardson	30.1R	1-8"				NO I	DIVERSI	DN					
Leo Giovanetti	30.2L	1-0"				11	13	17			4,1	40	
Arthony Furlan	30. L	1-11, "		15	190	115	157	139			016	79	p 100
M. N. Bichardson	30.7R	1-10*		103	273	21.9	244	238	92		1109		q 70
Albert Nusz	30.75R	1-6"		13	5		19	13	1		54	20	

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Mile Ly.CL Cross Canal. Distance fro. Sacramento River and tark are shown in (). The Jacobian Control of the second secon r ß

h Reila un a 20° unit.
 i Additional acree feet diverted: November 1.
 i Additional acreege for Ukropina plants at Hila (3.3N) and (3.35N).
 i The plants at the transmission of transmission of the transmission of transmission of the tran

	Mila and Bank	Number Bnd		Mo	onthly (	iversio	ons in A	cre-Fee	t		Total Diversion	Acreage I	rrigated
Water User	above Sacramento	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sapt.	Oct.	Mar. to Oct. Acre-Feet	General	Rice
Alice E. West	30.9L	1-6"					17				17	30	
A. C. Huston, Jr. and Mrs. E. Huston	31.5R	1-12"				46	42				88	70	
M. R. Richardson	31.75R	1-1/1"		125	7	215	338				a 685	293	
		1-20"											
M. Alonso	31.8L	1-6"					4				4	30	
Sutter Mutual Water Company (Portuguese Bend)	32.0L	1-20" 2-24"	85	376	2378	2621	2722	2498	1454	161	ъ 12295	1451	581
Collier Brothers	32.5R	1-10"		2	6	34	60	29	13	5	c 149	79	
J. F. Waters and E. Furlan	32.5L	1-12"		21	49	61	53	50			234	74	
W. R. Zeigler and H. Carlson	33.2L	2-10" 1-12"		1	627	395	586	510	278		2397	458	160
J. G. Knox	33.35L	1-10" 1-12"					60	55			115	160	
Clarence Du Bois	33.5R	1-12"	49	58	18	80	99	67	7	1	378	120	
P. K., G. J., and W. N. Leiser	33-75L	1-14"		l	162	2	204	59	20	1	կեթ	335	
and L. J. Mansager Neil Wilson	33-85R	1-6"	9	2	11	21	19	28	18	13	c 121	32	
SOUTHERN PACIFIC RAILROAD BRIDGE	33.95 33.95	7-0	9		11	21	19	20	10		C 121	2	
VERONA TO KNIGHTS LANDING							1		041 7				
Totals Average cubic feet par second Monthly use in per cent of seasonal			147 2 0.2	3953 66 5.1	15780 257 20.5	13979 235 18.1	17930 292 23.3	16391 267 21.3	8645 145 11.2	247 4 0.3	77072 159	7471	6077
GAGING STATION - SACRAMENTO RIVER AT KNIGHTS LANDING	34.UL												
KNIGHTS LANDING BRIDGE	34.1	1								1			
COLUSA BASIN DRAIN	34.15R												
E. E. Nuttall (d)	34.15R (0.2)	1-6"				1		1			e 1		
Rivar Farms Company	34.5R	1-16" 1-20" 1-24"		3449	3635	3807	4376	4057	1091		20415	t 208	f,g 1531
Wallace Ernst and A. Johnson	34.85L	1-8" 1-12"				58	121				179	100	
Walter Raymond	35.2L	1-12"			71	112	121	11			315	160	
Knox and Anderson	35.8L	1-10"				1	48	24			73	68	
J. Goffitzar	35.85L	1-6"				13					13	10	
Frank Rossi	36.2L	1-12" 1-14"		37	377	375	361	351	206		1707	43	155
Earl H. Oray	36.45L	1-8"				NO D	IVERSIO	N					
RECLAMATION DISTRICT 787 DRAINAGE PLANT	37.OR												
Albert Nuttall	37.2L	1-14"				118	122	105			345	90	
Maybelle J. Bundock	37.75L	1-8ª				2	83	16			101	128	
Alice Rasl and Mabel Green	38.4L	1-10"					19	10	10		39	48	
C. L. Reel	38.8L	1-10"				NO D	IVERSIO	1					
C. L. Reel (h)	39.4L	1-12"					124	18	47		189	100	
C. L. Reel	39.8L	1-104	1			107	28	13			148	50	
William Duffy, Jr.	39.4L	1-5" 1~6"					13	12			25	25	
Sutter Mutual Water Company (State Ranch Bend)	40.6L	2-24" 1-36"	32	1423	5701	4567	5380	5338	2129		24,570	2885	1952
River Farms Company	41.09	1-14" 1-16"		134	316	369	142	184			1145	482	
Buell Ranch	41.0L	1-6"				12	3	4			19	23	
Buell Ranch (B. E. Dean)	42.2L	1-6 м					IVERSIO	1					
Mrs. N. Loranzetti	42.3L	1-8"				NO D	IVERSIO	N					
El Doredo Ranch	42.3R	a 1-11ª 1-16ª			164	1415	475	185	66		b 1332	687	
El Dorado Ranch	43.1R	1-12"				NO D	IVERSIO	N					

TABLE 178 DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER - 1955 (contd.)

The acreage listed for Mile 30.7R also received an undetermined amount of water from Mile 31.75R.
 Additional acre-feet diverted: November 69.
 Additional acre-feet diverted: November 3.
 This plent formerly listed on Back Borrow Pit at Mile 0.2R.
 Diversion for stock water.
 Combined ecreage for Mile 34.5R and plent on Back Borrow Pit at Mile 0.3L.

g Of this ecreage, 287 also received an undetermined amount of water from Mile 43.1R for flooding only.
 h Formerly listed as Ivan Shuay.
 A 10" unit was removed in 1955.
 j Additional acre-feet divorted: November 4.

DIVERSIONS	AND	ACREAGES	IRRIGATED -	-	SACRAMENTO	RIVER	1955	(contd.

TABLE 178

	Mile and Bank	Number end									Total Diversion	Acresge I	nutestad
Hater Oser	sbove Sacramento	Size of Pump	Mar.	Apr.	Hay	June	July	Aug.	Sept.	Oct.	Ar. to Oct. Acre-Feet	General	Rice
Harot 0301	6201	, <u></u> ,		. np	1-23	0.00		1.46.	10000		NC10-7000	301107 42	1400
Reclamation District 2047	43.1B	3-50"		6902	11751	11187	12lm3	12062	4292		▲ \$7637	ъ 2856	b 5255
Eramer Ranch	L3.1L	1-12*	ļ		56	40	50	11			157	108	
Bill Erdman	13.4R	1-10"			30	99	130	125			390	146	
RECLARATION DISTRICT 108 DRAINAGE PLANT	OR . ډلې												
John Cleuss	44.2I	1-18"		5	393	617	726	909	841		د 3481 c	435	
John Clauss (Puchlin)	45.6L	1-14"				80.0	IVERSIO	N I					
GAGING STATION - SACRAMENTO RIVER ABOVE R.D. 108 DRAINAGE PLANT	46.4									ļ			
John Clauss	46.45L	1-16"	]	73	881	980	1027	998	908	ļ	4867	32	c 190
J. H. Henle (d)	40.5L	1-11, H 1-20 H		138	424	127	275	90	64		= 1118	265	
P. J. Blatt	48.7L	2-22 ª		<u>14</u>	2085	2074	2110	2126	1184		9625	550	170
G. J. Histt	19.7L	1-14"	1	25	184	270	167	245	82		973	193	71
Reclemation District 108 (Tyndell Hound)	51.1R	2-24." 1-36"		7240	6032	6064	7379	6522	1057		34294	682	2315
Holmes and Westover Company	51.2L	2-16"			1365	1179	1184	1105	500		5333	555	360
Fritz Erdman	51.9R	1-12"				90	95	41			226	100	
Thomas Nelson	52.0L	1-16"		8		168	174	95	24		وميا	r 235	
George Van Ruiten	52.9L	1-10"				NOD	IVERS 10	H					
River Farms Company	53.8R	1-12# 1-15#	178	35	236	379	571	396	225	110	g 2130	296	
George Van Ruiten	53.9L	1-12"				52	228	239	67		586	300	
Broomieside Parma	55.1L	1-20,4			13	70	71	103			257	200	
Broomieside Ferms	56.3L	1-16"				53	214	84			351	135	
Reclamation District 108 (Boyer Bend)	56.4R	1-12" 1-18" 2-22"	194	339	1049	755	2086	1625	589		6637	2167	
Jecob Miller	>6.65R	1-12"				NO D	IVERSIO	E					
Broowleside Ferma	55.95L	1-20"				125	295	183			603	590	
L. M. Miller	57.0R	1-10#				NOD	IVERS10	R					
William Grawford (b)	57.25L	1-2½" 1-30"			972	1280	1312	1440	1153		6157	755	1 480
Lamb Brothers	57.5L	1-10"				NOD	IVERSIO	B					
J. A. Neilson Estate	j 58.3L	k 1-14"	6	40	15	58	103	103	45		370	200	
Alex Grant	58.9L	1-16"			23	28	69	86			206	140	
I. G. Zumwalt	55.1R	1-12"		10	]	108	84	160	60		422	345	
Lasb Brothers	59.8L	1-14ª			288	474	559	495	253		2069		100
W. A. Larner	60.LI	1-14" 1-16"		.07	779	543	1232	736	432		4229	944	255
L. A. Butler	60.5L	1-12"		45	49	91	84	1			269	m 120	
Richard Hoore	61.5L	1-12"			13	77	26	62	25		223	104	
L. A. Butler	61.5L	1-12"		18							18	35	
Wayne Rine	62.3R	1-10"		6	26	21	53	66	12		184	n 112	
John Neck	62.3L	1-14 "		2	424	537	645	564	203		2362	35	135
Jake Locovich Estets	62.6R	1-8 "					16				p 16	35	
K-IGHTS LANDING TO WILKINS SLOUGE Totals Average cubic feet per second Monthly use in per cent of second			410 7 0.2	20480 عليله 10.5	37342 607 25.0	37530 631 19.1	43817 713 22.3	41021 667 20.9	15565 262 7.9	110 2 0.1	196275 404	17797	12969
GAGING STATION - SACRAMENTO RIVER AT WILKINS SLOGOR	62.9R												
Reclamation District 108 {Wilkins Slougn}	63.2R	5-42*		17558	22635	25324	29696	27603	5035		q 127851	r 3750	r.# 11438
R. L. Young	63.3L	1-12"	4	6	18	96	66	98	32	5	327	136	

Two hundred eighty seven acres of rice listed for Hile 34.5R also received an undetermined amount of the water shown halow from Hile 43.1R for flooding only. Six hundred fifty five acres of rice listed for Hile 63.2R also received an undetermined amount of mater from Hile 43.1R. Includes 2,329 acre-fact delivered to River Farms Company as follows: April 221, May 5, Jure 117, July 86, August 450, and September 1446. For Hile 43.1R also received an undetermined amount of water from Hile 63.2R. Includes acrease as follows: Reclemation District 106, rice 5,255 and general 407; Miver Perms Company, general 2,040. The rice acrease listed for Hile 46.45L also re-sived an undetermined amount of mater from Sile 41.2L and controlled drainage. Pormerly listed as George J., Jr. and J. N. Menle. Includes 378 acrease, 75 was double cropped. .

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Additional erre-feet diverted: November 50. New installation to 1555. This acreage also received an undetermined mount of mater from controlled drainage, for flooding only. Partianes a 15° unit. Of this areage, 70 mm double cropped. Includes 71 acres of Zimmelt lends. Additional acres-fest diverted: November 11. Five hundred and nine acres of gameral crops and 1,025 acres of rice listed for Mile 31.2R also received an undetermined esount of mater from Mile 32.2R. This acresge also oracived 1,717 acre-fest of mater from plant on back Borrow Fit, Mile 19.9L and 815 acre-fest of mater by controlled drainage. Six hundred fifty five acres of rice listed for Mile 63.2R also received an undetermined amount of mater from Mile ij.1R.

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			TAI	BL	<b>E</b> 178					
DIVERSIONS	AND	ACREACES	IRRIGATED	-	SACRAMENTO	RIVER	_	1955	(contd.	)

	Mile and Bank	Number and		Mo	othly C	iversio	t		Total Diversion	Acreage Ir	ripsted		
Water Oser	above Sacramento	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar. to Oct. Acra-Feet	General	Rice
Meister Ranch	63.65L	1-8"		5		<u>ц</u> ц	23	66	26		164	a 117	
Sutter Mutual Water Company	63.75L	6-42* 2-48*	1059	17394	39348	33164	39489.	35189	15580	3482	ъ 184705	c,d 18698	d 12606
Robert E. Seaman	63.9L	2-14"		134	377	497	612	443	231		2294	e 550	108
TISDALE WEIR RECORDER STATION	64.2L												
Ornbaum Livestock Company	64.3R	1~12"		38	49	56	51	68	47	14	323	118	
Lamb Brothers	64.35L	1-14"			260	205	227	208	106		1006		80
Tisdale Irrigation and Drainage Company	64.4т	1-8" 1-12"		369	500	646	639	621	283		3058	1 445	f 120
Van Born Ranch	64.9R	1-14"				69	51	78			198	90	
Juan Velasquez	65.1R	1-4"				13	25	20			58	34	
Pred Schohr	65.6R	1-16"				NO 1	DIVERSI						
Walter Ettl	65.7L	1-8"	12	91	4	139	145	126			517	135	
J. L. Browning	66.4R	1-18"			205		91	160			456	247	
Tisdele Irrigation and Drainage Company	67.1L	1-16"		994	1461	1755	1577	1817	849		r 8453	g 1274	321
Newhall Land and Farming Company	67.5L	1-12" 2-24"		1332	1782	2477	2355	21 38	689		10773	2257	350
RECLAMATION DISTRICT 70 DRAIN PLANT	68.8L												
Meridian Parms Water Company #5	68.8L	1-24*		501	501						1002	h	h
J. L. Browning	69.0R	1-Ц" 1-22"			70	474	300	273	17		1134	506	
Faxon, Morton, and Andreotti	69.2R	2-16"		734	1145	1310	1389	1312	237		6127	1 450	1 557
EDDY'S FERRY SITE (GRIMES)	69.45												
J. E. Rollenbeck	69.8R	2-4"				NO 1	IVERSI	)N					
B. P. Daly	70.4L	1-10"		23	35	47	62	65	37	3	272	j 84	
Boffman, Beckley, Ritchie, Poundstone, and Andraotti	70.4R	1-16" 1-20"		387	1278	964	1651	1544	478	11	6313	32	k 525
Meridian Parms Water Company #4	71.1L	1-24"	9	888	1659	1520	1266	1770	1223		8335	h	h
A. B. Armstrong	71.9R	1-14*		278	27	164	282	207			958	m 395	
H. and A. Andreotti	72.1L	2-14 "				406	246	150	3		805	285	
C. T. Froh	73.6R	1-10"			35	41	40	35	27		178	81	
Meridian Farms Water Company #3	74.8L	1-18"	18	512	123	620	884	633	250		3040	h	h
L. H. Westfall	75.3R	1-10"			154	242	109	155	92		752	m 232	
J. H. Yates Estate	76.1L	1-10"		26	9	80	37	74			n 226	p 125	
Robert Chesney	76.15L	1-10"			17	13	108	29			167	n,q 140	
M. S. Davis and C. K. Anderson	76.2L	1-8"			24	13		21			58	r 68	
Steidlmayer Brothers	76.5R	1-16"		335			65				400	240	
Olive Percy Davis, et al.	77.8R	1-16"			<b>1</b> ЦЦ	80	44	140	86		494	210	
J. J. Benkins	77.9L	1-16"		91	192	132	92				507	234	
Olive Percy Devis, et al.	78.75R	2-12" 1-16"		566	1661	1033	565	841	385	164	a 5215	561	
Olive Percy Davis, et al.	78.8R	1-24*		1363	2074	2011	2232	1466			9146		s.t 1851
Stiedlmayer Brothers	78.9R	1-12"				191	111	58	61		421	180	
C. E. Reische	79.0L	1-10"		62	56	99	61	78	10		366	u 168	
Gerrans Orchards (v)	79.3R	1-10"			10	26	41	Ц 14	13	9	113	(w 78	
J. J. Bankins A. M. Wood	79.5L	1-8"		13		25	15	17			70.	38	
GADING STATION - SACRAMENTO RIVER	79.7L 79.85	1-10"				102	9	45			156	x 114	
AT MERIDIAN Meridien Parms Water Company #1 and #2	80.0L	1-10" 1-20" 1-24"	957	3257	3553	<u>լ</u> դեշր	4961	4897	որիս		23490	h,y 6628	h,y 2406

This acreage was double cropped. Includes 7003 acre-feet of water served to lands in Reclamation District 1660 as follows: April 313, May 1,977, June 1,125, July 1,5211, August 1,595, and September 179. Of this erreage, 1.673 was double cropped. Includes 10,08 acres of general crops and 662 acres of rice in Reclamation District 1660 Of this acreage 210 was double cropped. One hundred twenty acres of general crops and 120 acres of rice listed for Mile 6(1,11 alco received an undetermined amount of weter from Mile 67.1L. Includes 100 acres of P. Winship lands outside of district that reseived 521 acresfeet of water. Combined acreage for Miles 66.81, 71.1L, 71.8L, and 80.0L. Includes 120 acres of rice and 53 acres of general crops that also received an undetermined amount of water from controlled drainage. Includes 38 acres of Rohleter lands. a b

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k Includes 25 acres used for warming ponds. Includes 10 acres of Steldimayer lands.
 n Forty five acres of general crops listed for Mile 76.15L also received an undetermined amount of water from Mile 76.1L.
 p Includes 20 acres of Coffmen lands.
 a The acresson acresson of the transmission of the

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T/ BLE 178 DIVERSIONS AND ACREAGES IRRIGATED - SACRAMENTO RIVER - 1955 (contd.)

	Mile and Bank	Number		Me	nthly [	iversio	ins in A	cre-Fee	5		Total Diversion	Acresge Ir	
Water User	above Sacramento	Size of Pump	Mar.	Apr.	May	June	July	Aug.		Oct.	Mar. to Oct.		
WRIGE USER	SECLE-euro	rum;	GRP.	Apr.	ZAY	June	PITA	Aug.	Sept.	000.	Acre-Feet	General	Rice
Gerrana Orchards (a)	80.3R	1-6 "			1	40	43			33	117	64	
Wayne Hall Estate and E. J. Burrows	81.5L	1-16"				123	54	61	76		314	65	
Wayne Hall Estate	61.9L	1-16"		287	879	810	- 71.	877	394		"lól	113	170
P. T. Reische and L. P. Wood	2.5L	1-127			20	81	33	ما3		11	181	80	
Steidlamyer Brothers	63.CR	1-20*	40	407	67	171	226	137	238		b 1292	c 78	
J. E. Clark	-3.3L	1-11;"				NO 2	VERSIO	28					
J. E. Clark	83.5L	1=10*			19	5	11	7			42	25	
BUTTE SLOUGH OUTPALL GATES	84.UL												
Reclamation District 1004	85.3L	1 "		31	25	17	48	58	7		186	45	
Steidlmayer Brothers	85.0R	1-12 ⁿ				NO I	DIVERSIO	28					
Clifford Reichel	85.8L	1-10"			237	245	247	270	252	11.	1205	83	96
Lydell Peck	86.1L	1-0 ⁿ		9	66	37	25		10	15	171	70	
W. N. Halsey	86.12	1-12*	57	1 24	164	135	204	122	94	1	901	258	
Howell Davis	86.2R	1-18 "				NO 2	DIVERSI	ON 1					
Mitchel Lobrovich and John Brayovich	86.8L	1-87		6	32		39				77	45	
John Brayovich Roger Wilbur	66.9R	1-10 ⁿ	71	176	163	202	239	235	55	55	1196	119	55
Roger Wilbur	87.4R	1-10"	22	38	35	54	43	12	25	35	208	55	35
W. N. Halsey	87.45L	1-10	64	11	77	24	13	14			18	23	
Mrs. D. Locowitch	87.6L	1-8*		1 11	15	12					27	12	
Swinford Tract Irri atlon Company	7.78	1-12"		70	111	30	128	1.			356	96	
Frank Azevedo	58.OR	1-12		10		19	12	<u> </u>			31	17	
Nagel and Locovitch	86.2L	1~10"		6	42	24	30	3	11		116	عليا	
Mayfair Packing Company	88.7L	1-14"		2	192	6-44	77			10	d 281	117	
Colusa Irrigation Company	89.2R	1-20*		-	82	308	189	59			678	291	
Orace S. Arnold	89.24L	1-20			48	34	47				129	81	
Reclamation District 1004	89.25L	1-12"		375	925	1006	1153	954	117		4532		o,f 1100
HOLANDAR FACT STREET AND		1-18ª		515		1000		1.00			477-		
W. R. Halaey and M. Yerxa	89.26L	1-12"			88	64;	74				226	110	
WILKINS SLOUGE TO COLUSA		<u> </u>			0	0.01.0		0.51.5			1.011.140		
Totals Average cubic feet per second Monthly use in per cent of seasonal			2255 37 0.5	48499 815 11.4	82625 1344 19.4	81945 1377 19.2	93469 1520 21.9	85345 1388 20.0	28498 479 5.7	3827 62 0.9	420463 678	42317	31783
COLUSA BRIDGE - GAGING STATION -	89.4R												
SACRAMENTO HIVER AT COLUSA	0.0						IVERSIO			1			
Lillian and Hattle Boggs	89.7L	1-10"		= (0		960		1	1.02	0.07		1484	
Roberts Ditch Company	90.7H	1-18 ⁿ	239	768	714		1106 DIVERSIO	1004	467	205	b 5463	1104	
1. O. Zumwelt Paul R. Westfall	91.OR	1=0"					1			1	53	26	
	91.1L					19	19		15	1	53	26	
I. G. Zumwalt	~1.6R	1-12"		4	55	10	79		غلبه	3.9	231	205	1
COLUSA WEIR RECORDER STATION	يتيا. 2 م												
Overge P. Ahlf	92.5L	1-0" 1-10"				NOL	DIVERSIO	) 					
W. H. Halsey	93.0H	1-8 *		35		62	31	4			132	40	
Paul R. Westfell	93.5L	1-10"	19	35	28	52	16	50	38		238	123	
Tuttle Land Company	94.3R	1-20 ª		24	85	261	187	66			623	h 224	
Roger Wilbur	45.25L	1-12" 1-18"		672	501	872	1069	866	43	92	1 L53P	150	J 277
Atro N. Lewis	95.6L	1-18" 1-12" 1-20"			703	~18	1072	<del>,</del> 85	353		3831	k 450	± 100
J. G. Griffin	45.75L	1-20"				NO	VERS I	1					
	95.75L 95.8L	n 1-15"					1	50%	1.03		1385	5.5	
J. G. Briffin						67 NO 5	L06	1	403		1385	5.5	
W. J. Graham	95.85L	1-10"					1		0.5				
I. G. Zimwelt	ус.6Я	1-15"		134	98	101	142		27	133	695	340	

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Pormerly listed as Roger Wiltur. Additional accepted diverted: November 1. Of this accepted, was double crojsed. Additional accepted was double crojsed. Incl des 5 acres of general crops and 50 acres of rice which also remained an undeterfined arount of mater from critolled irrinnage. Includes Giu acres general crops and 50 acres of rice model of the second of mater from File 4.5R on Bits freedied an undetermined amount of mater from File 4.5R of tis a reage, 5 mas reased for duck ponds and received 323 acre-feet freeter.

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A "" unit was removed in 1955.
 F. Includes 10 acres of Helsey lands, 20 acres of Mayfair lands, and 10 acres of Indian harries lands.
 Additional acressived shuds.
 J. This acrease also received an undetermined amount of mater from controlled dreinage and may request for duck ponts.
 Includes 100 acress if Marson Batate lands.
 Includes 105 acress and has requested approximately 110 acresfeet of mater. rom controlled drainage.
 I Previously listed as an 10" unit.

			TABL	E 178					
DIVERSIONS	AND	ACREACES	IRRIGATED -	SACRAMENTO	RIVER	_	1955	(contd.)	

	Mile Number Nonthly Diversions in Acre-Feet and Bank and										Total Diversion	Acreage In	minated
Water User	above Sacramento	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar. to Oct. Acre-Feet	General	Rice
												1	
H. Beitman	97.7R	a 1-14"	6	9	61	86	248	94	81	76	ъ 661	88	
Frank N. Beckley J. L. Erisey	98.0L	1-10" 1-10"	22	39 100	39	60 al	121	82			363	152	
Otterson and Boggs	98.3R 98.6L	1-10"	26	TOO	90	94	124 IVERSIO				434	135	
D. Boggs	90.0L 98.8L	1-15"		7	27	39	115	42	32	6	268		
Elizabeth Reimer	99.0E	1-14"		· ·	151	104	170	121	62	0	608	132	
J. E. Boggs	99.1L	1-14		7	33	42	41	101	02		123	170 c 95	
Bollis Sartein	99.2L	1-20"					IVERS 10	N			,	C 95	
L. W. Seaver	99.3R	1-10" 1-12"	101	89	181	290	245	93	165		d 1164	e 335	
Dave George	99.8L	1-12" 1-4" 1-16"				233	217	184	86	ı	721	325	
St. Patrick Nome Ranch	101.1R	1-20"	43	423	638	875	884	507			f 3370	g 817	g 212
Jane Foster Carter	101.8L	1-14"		28	49	3	68	63	15		226	203	
Nettie, Gaorge, and Ella Packer	102.8R	2-12" 1-20"		385	611	558	733	532	44		2863	165	384
C. B. Cartor	102.9L	1-16"		56	114	117	196	125	29		637	h 274	
GAGING STATION - SACRAMENTO RIVER OPPOSITE MOULTON WEIR	1 103.3												
MOULTON WEIR RECORDER STATION	j 103.6L												
Charles W. Welch	103.7R	1-16"		391	657	657	797	730	209	8	3449	180	k 900
Charles W. Welch	103.8R	n 1-14" n 1-20"		1076	1053	1541	1676	1197	36		6579		k
C. W. Tuttle	103.9R	1-12" 1-18"		993	497	940	718	506	39		3693	Цо	565
I. G. Zumwalt	104.8L	1-12"		57		71		1			128	135	
I. G. Zumwalt (n)	105.3L	1-12"				23	23	1			46	120	
Lawrence Boyd	105.5L	1-10*		3		2	3	3			11	10	
Thousand Acre Ranch (H. W. Keller)	106.OR	1-14"		53	49	96	78	17			293	160	
Olive Percy Davis, et al.	106.5R	2-16"		255	346	678	740	711	79		2776	551	92
Princeton Ranch Company	110.OR	1-12"			104	78	93			106	381	180	
H. Womble	110.1L	p 2-16"		351	70L	639	686	581	90		3051	135	240
I. G. Zumwalt	110.7L	1-12"				119					119	170	
Princeton Ranch Company	111.2R	1-6"				PLAN	T REMOV	ED					
PRINCETON FERRY	112.0												
I. G. Zumwalt	112.05L	1-12"			24		27		21		72	65	
Reclamation District 1004	112 <b>.</b> 1L	2-30" 1-50"		5188	11506	11120	13333	12019	4054	66	57286	q 2125	g 6259
Princeton-Codore-Glenn Irrigation District	112.4R	3-24 *	208	3610	3185	5461	5535	4345	1098		23لبلبا	r 2438	r 4806
I. G. Zumwalt	112.6L	1-10"			82	54	103		13		252	357	
Emarson B. Estes	114.9R	1-5"				11	18	14			43	35	
L. B. Lucas	115.4R	1-4"				10	22	17	4		53	17	
Opal L. Cushman	115.5L	1-12"		72	131	78	155	148	106		690	154	
COLUSA TO BUTTE CITY Totals Average cubic feet per second Monthly use in per cent of seasonal			664 11 0.5	14831 249 11.3	22916 373 17.5	27261 458 20.8	31296 509 23.9	25637 417 19.6	7653 129 5.8	732 12 0.6	130990 270	13350	14155
BUTTE CITY BRIDGE	115.8												
GAGING STATION - SACRAMENTO RIVER AT BUTTE CITY	115.8L												
L. B. Lucas	115.8R	1-13" 1-6 ^H		3		50	95	24	21		193	<b>s</b> 65	
R. H. Gebicke	115.85L	1-14"				104	124	92	3		323	175	
L. D. Ohlson	115.9R	1-4"				PLAN	T REMOV	ED					

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Replaces a 12" unit. Additional acre-feet diverted: November 18. Includes 20 acres of Sartain lands. Additional acre-feet diverted November 19. Includes 26 acres of Middlecamp lands and 60 acres of Reimer lands. Additional acre-feet diverted: February 367. The rice ecreage and 677 acres of general crops also received an undetormined amount of water from wells. Of this acresge, 28 was double cropped. Gesing station moved to this location from Mile 103.9 in June 1955. Freviously listed as Mile 100.0L. Combined acresge for Miles 103.7R, 103.6R and plants on Colusa Trough at Miles 11.7L (0.2) and 11.7L (0.3).

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The 20" unit was installed in 1955.
 New installetion in 1955.
 One 10" unit was installed in 1955.
 Gembined acreage for Mile 112.1L and plants on Butte Greek Miles 11.8R (2.0) and 11.4R (0.2). Includes 155 acress of general crops and 602 acress of pice outside the district.
 Combined acreage for Miles 112.4R and 123.9R and plant on Golusa Trough Mile 17.2L. Includes 67 acress of general crops that received 315 acresfect of water from 0. C. I. D. Plant at Mile 154.8R.
 Includes 56 acres of Ohlson lands.

			TA	BL.	E 178					
DIVERSIONS	AND	ACREAGES	IRRIGATED	_	SACRAMENTO	RIVER	_	1955	(contd.	)

	Mile and Bank	Number and	d								Total Diversion	Acreage Ir	rigated
Water User	above Sacramento	Size of Pump	Mar.	Apr.	Hay	June	July	Aug.	Sept.	Oct.	Mar. to Oct. Acre-Feet	General	Rice
Manuel Torres (=)	116.37L	1-12"					DIVERS 10	1					
Cronin Estate	116.9L	1-16"					DIVERS 10	1					
L. D. Ohlson (b)	117.1R	1-10"				27	60	46			133	90	
W. F. Wright, Jr.	117.5R	1-6"				27	37		16	33	113	136	
W. H. Stewart, Jr.	120.3R	1-10" 1-10"				7.	26 DIVERSIO				33	Ļо	
Robert T. Miller	122.JR	1-10"		10		NOI	18	R					
Clarence Reed	123.7R	1					10		5		33	c 35	
P. K. Frieden	123.8R	1-4"	0.40	1	001.0	0.000	art	1	1.001	0.70	2	2	
Frinceton-Codora-Olenn Irrigation District	123.9R	5-24"	868	y866	9217	8823	9154	9015	կօՑկ	979	52006	d	d
Provident Irrigation District	124.2R	e 3-36"		31.55	3503	5238	5759	5655	1195		£ 24505	g 1461	в 7504
J. Bertapelle	124.3R	1-12"	40	216	167	307	212	345	235	45	h 1567	1 365	
Joe Thomas	125.5R	1-12"	-			32	34	33	3	27	129	48	
Duard F. Geis	128.3R	1-6 "				36	87	64	32	24	21+3	87	
F. S. Reager	130.75R	1-8"	34	Цo	61	53	127	102	71	4	j 492	x 254	
GAGINO STATION - SACRAMENTO RIVER AT ORD FERRY	130.8R												
0. D. Simmons (b)	131.OL	1-4 [#]						11	25	9	45	85	
Harry E. Nichols Jr. (m)	133.45L	1-6"				35	62	2나			121	n 68	
Harry E. Nichols Jr. (m)	133.5L	1-5"				14	8				22	40	
STONY CREEK	138.OR												
CHICO CREEK	142.52												Į
M. & T. Incorporated and Farrott Investment Company	141.5L	1-20 M 4-24 M	397	1490	1986	2718	4861	5620	1355	215	(p) 18642	1364	2208
Frank C. Brazell (b)	141.5L	1-4ª						9			9	40	
OLD CRICO LANOINO RAILROAD BRIDGE SITE	142.1												
W. B. Fischer	142.8R	1-14"	12	27	56	113	178	197	81	164	g 828	134	
Leonard Rorning	143.6R	1-10"					12	19	17	5	53	52	
J. O. Bentz	143.8L	1-6"				26	60	37	42		165	42	
Glenn Beagle	146.3L	1-6"				ло ц	I VERS IO	N					
Leonard Horning	146.8R	1-3"				7	7	4	2	1	21	9	
Holly Sugar Corporation	148.9R	1-2" 1-10"				NOI	UVERSI 0	N					
Wallace E. Ferrin and George A. Zundel	149.5L	1-12"				209	375	161			745	225	
GAGING STATION - SACRAMENTO RIVER AT HAMILTON CITY (GIANELLA BRIDGE)	149.5L												
J. A. and A. E. Lowis	149.7L	1-12"		69	76	77	99	97	94	39	551	r 300	
James A. Lewis	150.0L	1-10"		23	19	58	106	90	92		388	r	
V. O. Strain	150.8R	1-12" 1-16"	102	1 2 L	211	411	551	652	155	53	a 2259	650	
Joe E. Johnsen	152.2R	1-6"		6	9	13	18	19	16	6	t 87	31	
W. M. Edwards and Son	152.4R	1-6ª					IVERSIO						1
Jessie and McClain	154.6R	1-5"					11	4	3		18	12	
O. G. Maas	154.7R	1-4"				3		2			5	9	
Jacinto Irrigation District	154.75R	1-36" 1-48"	3801	9989	10544	10110	10496	10550	9436	9510	u 74436	7911	1640
Olenn-Coluse Irrigation District	●154.8R	1-42" 1-48" 4-66" 3-72" 1-100"	1 3988	95926	117880	123832	127712	123991	59287	37147	v 69976)	w 28142	* 45849

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- This is a common point of diversion for Olenn-Colusa, Compton-Delevan, and Maxwell Irrigation Districts. Formerly listed as A. J. Stone. New installation in 1955. Of this acreage for Miles 112.4R, 123.9R, and plent on Colusa Trough, Mile 17.2L. One 36 unit was installed in 1955. Additional acre-fest diverted: January 212, November 255, and December 1, 304. Combined acreage for this plant and plents on Colusa Trough, Mile 27.2R (0.1). Includes Lil acres of rice and 100 acres of general crops that received 3,812 acre-fest of water from Olenn-Columa I. D. Flant at Mile 154.6R. Additional acre-set diverted: November 63. Of this acresse, 160 was double cropped. Additional sere-fest diverted November 16. Of this acresse, 8. S. Belland. Includes 8 acress that also received an undetermined amount of water from controlled drainage.
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- p Additional scre-fect diverted; January 16, February 10, November 181, and December 111. An additional 18, 530 acce-fect received from Butte Creek as follows: March 181, April 3,221, May 3,747, June 3,856, July 2,347, August 2,133, September 1,782, and October 1,263. Additional acre-fect diverted; November 26, r Combined acreage for Miles 149.7L and 150.0L. Additional acre-fect diverted; February 27 and November 38. t Additional acre-fect diverted; November 1. u vuantities shown are diversion at Mile 151,758 to the Olenn-Coluse I. D. Censi. Additional acre-fect diverted; November 1, 603. Additional acre-fect diverted by gravity from Stony Creek as follows: March 2, April 3,200, and Fay 1,500. An additional 9,552, despe-fest was diverted by plant on Back Borrow Fit, Mile 29.68 (1.1). Includes J.812 acres-fect served to Jule acres of rice and 100 acres of general crops listed for Mile 121,28. Includes 3,500 acre-fest acres diverted for Mile 112.48. Includes 1,500 acre-fest acres diverted for Mile 112.48. Includes 1,500 acre-fest acres diverted for Mile 112.48. Includes 1,500 acre-fest acres di compton-Delevan J. D. listed at Mile 151,68. W Includes the following acresses outside the district; Rice 1,074 and general 59. Of the rice acresses, 1,195 inside the district and 139 outside the district was reused for duck ponde.

			TABI	E 178				
DIVERSIONS	AND	ACREAGES	IRRIGATED -	SACRAMENTO	RIVER	~	1955	(contd.)

	Mile and Bank										Total Diversion	Acreage Ir	migated
Water User	above Sacramento	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar. to Oct. Acre-Feet	General	Rice
	Beeranomo	1 outp	1101.0	11.62.4	The J	Pano	DUTJ	100.00	bopt.	000.	ACLO-LOBC	General	ALCO
Compton-Delevan Irrigation District		*									n	432	1834
Maxwell Irrigation District	*	*									b	ъ	Ъ
J. Ewert	155.6R	1-4"	3	6	23	2	12	11	13	5	c 75	27	
R. Pheiffer	155.7R	1-23"	1	2	5	6	5	4	5	3	d 31	7	
F. Williams	156.0R	1-0"		1	1	1	6	7	5	1	22	12	
B. H. Penner	e 156.1R	1-6"		1	10	23	34	26	14	8	f 116	g 51	
0. L. Shearman	156.8R	1-2 ¹ / ₂ "		1	1	2	2	2	1	1	10	4	
Taresh Ranch	158.8R	1-10"	3	214	9	58	86	64	48	16	308	100	
Jonathan Garst	161.7L	1-8"		64				6			70	104	
GAGING STATION - SACRAMENTO RIVER AT VINA BRIDGE	166.5R												
E. L. Dietz	166.7R	1-3"				NO	DIVERSIO	DN I					
Russell L. Deckman	166.8R	1-2"			1	1	1	1	1	1	6	9	
Ernest Peterson	166.9R	1-6"	6	2	7	10	11	9	5	1	h 51	41	
DEER CREEK	168.5L												
A. J. McFadden	168.5L	1-8"			6	37	42	78	33	1	197	69	
C. F. O'Connor	i 168.85R	1~10"					56	17	15		88	j 50	
C. F. O'Connor	168.9R	1-6"					13	13	14		40	t	
Rumiano Brothers	169.8L	1-10"	7		61	6	103	49		6	k 232	120	
Dr. 9. T. Wood	173.7L	1-8"	44		84	31	24	25	44		252	170	
Dutro Brothere	m 175.5L	1-5"	19	1	23	31	37	32	15	11	168	n	
Dutro Brothers	176.6R	1-4"		5	6	21	51	l42	13	7	145	n 117	
TEHAMA BRIDGE	177.5												
MILL CREEK	179.0L		1				ļ						
ANTELOPE CREEK	180.3L												
Los Molinos Mutual Water Company	187.6L	1-12"				34	164	108	1		326	p 505	
Henry Tieden	188.5L	1-12"			1	1		1	1		4	6	
L. F. Bray	188.51L	1-22"		1		5	3	3	3	1	16	13	
Nenry Kerber	188.5L	1-10"		63	125	54	76	60	42	45	169	126	
RED ELUFF BRIDGE	193.45			1				1					
Arthur Stanley	196.5L	1-22"				1	1				2	10	
S. and E. Erickson	196.6L	1-5"	1	8	11	16	31	11	6		83	37	1
Diamond Match Company	197.OL	1-0"	16			44	91	66	8	33	258	50	
J. W. Bulkely	197.5L	1-14"				1			1		1	4	
C. A. Droz	198.0L	1-3"		8	16	22	25	24	15	14	d 15t	64	
BUTTE CITY TO RED BLUFF Totals			19341	121131	11/11/23	152737	161183	157523	76571	48415	881024	44000	59035
Average cubic feet per second Monthly use in per cent of seasonal			315	2036	144123 2344 16.4	2567	2621 18.3	157523 2562 17.9	76571 1287 8.7	787	1813		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
GAGING STATION - SACRAMENTO RIVER NEAR RED ELUFF	198.6												
C. T. Loftus	205.1L	1-4"	1	5	. 5	8	12	11	6	6	q 51	62	
BEND FERRY BRIDGE	207.0												
D. Mills	207.3L	1-8 ^H	51	42	100	89	115	112	60		569	110	
D. Milla	207.5L	1-12"	94	99	187	190	245	221	101	52	1189	281	
G. Totzlaff	209.0L	1-4"			11	25	23	13	1	1	73	32	
Table Mountain Gun Club	210.OR	1-22"							1		r 1	13	
J. F. Nunes	213.OR	1-7"				NO	DIVERSIO	N					
F. L. Jelly	213.5L	1-3"				7	15	11	7	5	45	20	
J. F. Nunes	216.0R	1-5"			14	20	17	25	12	5	93	16	
JELLY FERRY BRIDGE	216.0												
W. A. Runseus	216.4L	1-3"			6	9	16	13	7	5	n 56	13	

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This is a common point of diversion for Clenn-Coluse, Compton-Deleven, and Maxwell Irrigation Districts. Glenn-Colusa I. D. served 3,500 acre-fact of Sacramento River water and 13,332 acre-fact of controlled drainage water to this district. The district served water derived from controlled drainage to 595 acres of rice and 780 acres of duck club lands. Additional acre-feet diverted: November 1. Additional acre-feet diverted: February 1 and November 2. Plant moved from Mile 156,02R in 1955. Additional acre-feet diverted: November 5. 8

b

c d

e 1

g Includes & acres of Willems lands. h Additional acre-feet diverted: November 2. 1 Flant moved from Mile 160.3R in 1955. J Combined acreage for Miles 160.3R and 160.9R. k Additional acre-feet diverted: November 12. m Fortable unit diverted between Miles 175.5L and 176.6L in 1955. n Gombined acreage for Miles 175.5R and 176.0R. This acreage also received an undetermined amount of well water and water from Antelope Creek. q Additional acre-feet diverted: November 1. r Additional acre-feet diverted: January 5.

			TA	B	LE 178				
DIVERSIONS	ANO	ACREAGES	IRRIGATED	-	SACRAMENTO	RIVER	-	1955	(contd.)

	Mile and Bank	Number and		Noi	nthly D	lversio	ns in A	cre-Fee	5		Total Diversion	Acreage Ir	rigated
Water User	above Sacramento	Size of Fump	Mer.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar. to Oct. Acre-Feet	General	Rice
Naakoneon Brothere	217.5L	1-5"		15	54	123	56	\$7	56	22	n 463	78	
J. L. Haskins	217.9L	1+6"		17	43	72	104	45	22	22	b 325	50	
J. L. Haskins	218.GL	1-5"				PLA	NT REMO	VED					
Rio Alto Bancho	221.UR	1-18*	3	13	43	400	267	228	145	85	c 1188	398	
BATTLE CREEK	221.5L												
COTTONWOOD CREEK	222.2R												
GAGING STATION - SACRAMENTO RIVER AT BALLS FERRY	224.5												
J. N. Trisdele	228. R	1-16"		54	89	160	145	112	63	52	675	100	
ANDERSON BRIDGE	232.9												
Floyd Leonard	233.5L	1-6"		9	27	43	39	48	19		185	23	
nited States Flywood Corporation (d)	234.OR	1-8"							2	ž	. L	0 5	
CLEAR CREEK	237.1R												
William Menzel Co., Inc.	240.2L	1-12"		26	201	385	469	474	234		1789	197	
Lou Gerard	21,0.3L	1-2"		2	7	10	11	10	5	7	52	5	
John Gladwell	240.4L	$1 = \tilde{l}_{\perp}^{\mu}$	1			1	1				2	7	
A:derson-Cottonwood Irrigation District	240.5L	4-16"	ć57	1662	2816	3439	3651	3676	3313	2220	£ 21476	2293	
GAGING STATION - SACRAMENTO RIVER NEAR REDOING	240.7												
Riverview Golf Course	240.4L	2-2+"	5	9	25	35	34	29	28	20	g 195	30	
HIGHWAY 44 BRIDGE	242.0												
HIGHWAY 99 BRIDGE	245.9												
Anderson Cottonwood Irrigation District	246.0R	Gravity	4128	23223	24628	23914	24541	2lµl,53	2 2l;4,7	21530	h,1 168804	20267	
SOUTHERN FACIFIC RAILROAD BRIDGE	246.25												
Maybell Diestelhorst	246.3R	1-8"		5	32	28	29	39	51	12	J 166	22	
OLD REDDING-YREKA BRIDGE	246.4								1				
City of Redding	246.7R	3-8"	206	204.	356	533	585	651	438	302	× 3275	Munic	ipal
GAGING STATION - SACRAMENTO RIVER AT KESWICK	250.5												
RED BLUFP TO REDDING Totals Average cubic feet per second Nonthly use in per cent of seasonal			5145 84 2.0	25382 427 12.6	28648 466 14.3	29491 496 14.7	30455 495 15.2	30270 492 15.1	26988 454 13.4	24357 390 12.1	200736 413	211055	0
SACRAMENTO TO REDOING Totals Average cubic feet per second Monthly use in per cent of seasonal			30835 501 1.5	247756 4164 11.8	300053 5856 17.2	378179 6356 18.0	417899 6796 19.9	395677 6435 18.9	183419 3083 8.6	81863 1331 3+9	2095681 4312	165713	136355

Additional acre-feet diverted: November 23. Additional acre-feet diverted: November 11. Additional acre-feet diverted: November 36. Installed prior to 1955 not reviously listed. Log ond. No agriculturel use. Additional acre-feet diverted: November 168. Additional acre-feet diverted: November 1 and December 1. a b c d e t co

Includes the following acre-feet of operational spill: March 663, April 7,268, May 2,87L, June 956, July 1,301, August 716, September 2,153, and October 3,124
 An additional 9,768 acre-feet was diverted in November of which 6,207 acre-feet was operational aprill.
 Additional acre-feet diverted; November 6.
 Additional acre-feet diverted; January 189, February 154, November 190, and December 166.

		<b>TABLE 179</b>					
DIVERSIONS AND	ACREAGES	IRRIGATED	_	COLUSA	TROUGB≆	-	1955

	Mile	Number	1								Total	Acreage In	rigstad
	and Bank	and Size or	<u> </u>								Diversion Mar. to Oct.	Jeneral	Aice
Water User		Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Acra-Faet		11200
GAGING STATION - COLOSA TROUGR AT COLUSA-WILLIAMS RIGHWAY	0.0												
I. G. Zumwalt	2.2L	8-20*	884	2625	3326	4617	4624	5380	1902	103c	a 24394	b,c 3570	c 2025
East Williams Lands Company	2.2R	1-10"				NO E	IVERSIO	)N					
J. B. Cave	2.98R	1-10"			87	197	255	140	120	36	d 835	в 20	r 80
A. E. Zaniboni and L. W. Seaver	3.0L	3-16"	358	501	777	833	051	782	503	254	g 4739	600	
J. H. Cave	3.5R	1-14"							46	169	h 215	e 164	
Lloyd W. Seaver and F. J. Byingto	n 4.5L	4-16"		475	1105	1111	1112	1019	112	34	1 5028	e 10	j y01
Goffman and Gampbell	5.6L	1-16"				NO D	IVERSIO	N					
Louis G. Sutton	5.7R	1-16ª				NO D	IVERSIO	N					
Watt Brothars	6.2L	2~1ó"		119	334	467	402	284	21		1687		185
Watt Brothers	6.LR	1-12"			224	178	184	180	71		843		104
S. Ash	8.0L	2-16"		423	325	373.	482	462	31		2096		185
Charlas W. Welch	8.0R	1-15" 1-16"				NO D	IVERSIC	N					
El Dorado Sportsmans Club	9.5R	1-16"						21	105	158	1. 282		
I. G. Zumwalt	9.75L	1-10"		533	405	380	488	34 476	195		k 387	a 320	
Lloyd Kahn	10.5L (0.L)	2~16"		533 430	405	382	383		46	14	m 2342		360
Charles W. Welch	11.7L (0.2)	1-12"		174	347	302	303	337	4	44	2050	e 18	242
Charles W. Welch	11.7L (0.3)	1-12"		269	160						521		n
Charles W. Welch	11.7R (0.8)	1-12		209	1890	3058	2500	26.00		20	429		n
01W1102 H. H0101	11.(h (0.0)	1-16" 2-20"		2000	1090	3050	3509	3651	324	20	p 14540		q,r 1700
Del Valley Farms, Incorporated	12.1R	1-10"							y1	74	s 165	e 40	
Lynn and Bohne	12.58L (0.9)	1-10" 1-12"				NO D	IVERSIO	N					
Lynn and Bohna	12.59R	1-12"								102	t 102	e 25	
Nelphanetine Rice Lands	12.69L	1-16"		253	716	763	757	010	211	12	u 3322	0 29	v 260
E. Butler, E. Mayer, and J. Jones	12.7L	1-14"		115	155	227	241	226	48	50	w 1062	• 34	67
Manuel Barrett	Opp. 16.6R (1.3)	1-12"		96	75	232	227	255	5		890		c 180
Princaton-Codora-Glann Irrigation Oistrict	17.2L	2-18 ª		1494	2099	2322	2321	2263	212		10711	х	х
John S. Lopes	17.9R	1-12"				NO D	IVERS IO	N					
J. P. Cardoza	18.OR	1-4"	6	3	3	6	7	ð	15	8	у 56	z 45	
Provident Irrigation District (Willow Creek Plant)	Opp. 20.5R (2.4)	1-24" 1-36"		294	68	451	270	25			1108	28	88
LATERAL HIGHWAY - BUTTE CITY TO WEST SIDE	20.5												
Walter McGowan	21.LL	1-8" 2-16"		318	468	587	672	683	167		2895		201
Jos Navarro	22.0R	1-18ª		91	208	209	177	180	51		916		75
Provident Irrigation District (Drain #55)	Opp. 24.2R (1.5)	Gravity	492	4802	7660	7007	8118	ძ109	5255	3552	ав 45055	8.8	8.8
Dorothy Foote (ec)	25.4L	1-1ó"		64	2.28	260	292	333	81		1258		158
Provident Irrigation District	Opp. 25.8L (2.5)	2-16"	32	246	745	566	428	525	14		2556	aa	9.11
Terrill Knight (ad)	26.2L	1-12" 1-16"		485	410	449	483	505	5		2337		245
John M. Demmer and Mary R. Bohach	27.1L	1-12" 1-14"		32	26	66	101	80		l	306	90	
Provident Irrigation District (Coluse Drain)	27.2R (0.1)	J-57 ₩ J-50 ₩		1851	51ftft	1316	1399	995	247		7952	88	8.8
Provident Irrigation District (Drain #13)	Opp. 27.2R (2.6)	1-16" 1-20" 1-24"	1	679	1160	1641	1700	1750	648		7579	88	8.0.

- Main drain of Reclamation District 2047.
   Mileage along Colusa Trough above Colusa-Williams Mighway.
   Additional acre-fact diverted: January 34 and November 229.
   Of this acreage 240 was reused for duck ponds.
   This correage also received an undetermined emount of water from controlled drainage.
   Additional acre-fact diverted: November 33.
   All duck club lands.
   This acreage was reused for duck ponds.
   All duck club lands.
   This acreage was reused for duck ponds.
   Additional acre-fect diverted: November 35.
   Additional acre-fect diverted: November 55.
   Additional acre-fect diverted: November 70.
   Includes 240 ecres which also received an undetermined amount of water from controlled drainage.
   k Additional acre-fect diverted: January 70 and November 40.
   Midditonal acre-fect diverted: January 70 and November 40.
   Midditonal acre-fect diverted: January 70 and November 40.
   Midditonal acre-fect diverted: January 70 and November 40.

- s t u
- p Additional acra-feet diverted: December 242. Q f this acraege, 150 was reused for duck club. r Includes 700 acras which also received an undeter ined a ount of water from Stone Gorral Crask. s Additional acra-feet diverted: November 32 and December 33. t Additional acra-feet diverted: January 13 and December 33. t Additional acra-feet diverted: January 22, November 14, and December 15. Of this acraege, 15 was reused for duck club. * Additional acra-feet diverted: January 7, November 3. See plant on Scramento River, Mile 12.1,R. y Additional acra-feet diverted: January 7, February 1, Nove h ~ 22, and Occember 22. z Includes 25 acres of uuck club lands. a See plant on Scramento River, Mile 12.4,2R ad Additional acra-feet diverted: November 1769 and December 660. a Cormerly listed as I. G. Zumwalt. ad Previously listed as Terril Knight.

Mile and Back	Number and		Moi	nthly D	iversio	ns in A	re-Fee	ε		Total Diversion Mar. to Oct.	Acresse Ir	rigated Rice
ee Witer User	Size of P y	Mar.	Apr.	Hay	June	July	Aug.	Sept.		Acre-Peet	General	ALCO
Provident Irrigation District Opp. 27.2R (2.0) (Drain #13)	Gravity	319	1339	1525	764	918	1067	1084	1570	a 8256	Ъ	ь
Totals Average cubic feet per second Honthly use in per cent of seasonal		2092 35 1.3	323	27200 457 17.4	28522 4.4 18.2			11509 187 7.4	6004 114 4.3	150632 322	4936	6968

Main drain of Reclamation District 2017.
 Milesge along Colusa Trough above Colusa-Williams Mi hway.

Additional acre-feet diverted: November 957 and December 474.
 b See plant on Sacramento River Mile 124.2R.

### TABLE 160 DIVERSIONS AND ACREAGES IRRIGATED - BACK BORROW PIT+ - 1955

	Mile and Bank	Number and		1	Jonthly	Diversi	ons in	Acre- F	eet.		Total Diversion	Acreage In	rigated
Water User	60	Size of Pump	Mar.	Apr.	Mey	June	July	Aug.	Sept.	Oct.	Mar. to Oct. Acre-Feet	General	Rice
E. E. Nuttall (a)	0.2R												
GAGING STATION - COLUSA BASIN DRAIN AT KNIGHTS LANDING (KNIGHTS LANDING OUTFALL GATES)													
River Farms Company	0.3L	1-10" 1-20"		242		367					609	Ø	ъ
KNIGHTS LANDING RIDGE CUT	0.4R												
John J. Anderson	1.45R	2-16"				NOI	IVERSIC	N N					
John C. Cooling	4.2R (0.1)	1-16"		592	847	748	786	773	168		3914		301
J. E. Taylor	4.2R (0.7)	1-12"	13	19	10	16	44	31	29		162	65	
B. C. and T. D. Tolson	4.2R (0.8)	1-18"	1	386	686	712	776	753	277		3591		200
W. Crawford -	4.35R	1-20"		786	1174	2046	1125	1104	207	286	c 5728	100	d 500
W. Crewford	7.2R	1-16"				но с	IVERSIC	N					
George E. Youngmark	8.8R	1-14" 2-16"		246	900	668	646	690	<u>Ц</u> Ц		3194	147	475
Nershay Estate	11.15R	1-16" 1-18"		549	1426	1305	1653	1896	264	111	e 7204		r 681
Nershey Estate	13.75R	1-16"				NO	IVERSIC	Я					
C. M. Murma	14.75R	1-10"				NOI	IVERSIC	ท					
COUNTY LINE BRIDGE	15.25												
J. V. Doherty	15.5R	s 1-12"			227	256	257	214	152		1106		80
M. T. Emmert	15.75R	1-12"				NO D	IVERSIO	ж					
H. B. West, Jack Hughes, and Dr. R. C. West	18.1R	1-15" 1-20"			197	178	470				645	300	
Jomes Iriart (h)	18.5R (0.8)	1-14"		15	45	118	126	115	45		464	130	
RECLAMATION DISTRICT 108 GRAVITY DRAIN	19.92												
Reclamation Olstrict 108	19.9L	1-16" 1-24" 1-30"		1071		640					1717	1	1
William West	20.0R	1-15"			221	3.	398	214			870	253	
B. W. Whitpire and D. S. Adams	21.35R	2-16"	5	6	62	202	132	109	42	145	1 764	k 362	
Albert Brandenburg	22.15R	1-14*			161	270	308	299	161		1199		m 108
Alleen B. Armstrong	22.65L	1-16" 1-20"				PLAN	T REMOV	8D					

Carries return water fro: Coluse Basin along west border of Reclemation Districts 108 and /87 and thence discharges to Sacremento River at Hile 34.15R for partial diversion vie Knights Landing Ridge Cut.
 Hileage alone Borrow Fit from junction with Sacremento River.
 Sac plant on Sacremento River, Mile 34.15R (0.2).
 Sac plant on Sacremento River, Mile 34.5R.
 Additional acre-fest Liverted: Jenuery 41, November 360, and December 104.

e C

d Of this acreage, 100 was reused for duck ponda.
 Additional acre-feet diverted: November 70 and December 115.
 f Of this acreage, 55 was reused for duck ponds.
 g Replaces a lo⁰ w.lt.
 h Pormerly listed as Hilsry Ferms, incorporated.
 i See plant on Sacraments River, Mile 63.2R.
 j Additional acre-feet diverted; November 13 and December 31.
 k Includes 10 acres of duck yonds.
 includes 00 acres of Lucken lands.

	Mile and Bank	Number		(cont	-	01110-01		Acre-Fe			Total		
Water User	and Dank 90	and Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Diversion Mar. to Oct. Acre-Feet	Acreage In General	Rice
		1 outp					varj	, nug			ACT-0-1081	General	UTCO
GAGING STATION - BACK BORROW PIT NEAR COLLEGE CITY	. 22.7												
Aileen B. Armstrong	22.75R (0.1)	1-14" 1-16"			26	21	60			3	110	110	
SOUTHERN PACIFIC RAILROAD BRIDGE	23.6												
Baledon Ranch	Opp. 24.6L (0.3)	2-16" 1-20"	103	206	171	536	720	827	103	76	a 2802	825	
Balsdon Ranch	24.0R (0.3)	2-16"	109	68		166	44	197			584	200	
A. M. Dobrosky and Henry Olin	24.7L	1-12"				PLAN	T REMOV	ED .					
Lute King	25.1R	1-6"				29	62	41	1	1	134	151	
Gertrude M. Sherer	25.3L	1-16"				NO C	IVERSIO	DN					
Gertrude M. Sherer	25.5R	1-10"			4	20	16	4	9		53	40	
GRIMES-COLLEGE CITY CAUSEWAY	25.5												ļ
Fred Schutz	25.9L (0.2)	1-16" 1-20" 1-24"			57	96	135	85	29		402	180	
Roy E. Kitts	26.4R (0.1)	1-18"		130	403	437	405	347	171		1893	150	200
C. W. and M. F. Struckmeyer	27.25L (0.3)	1-16"			87	182	187	169	3	3	631	271	
William P. Wallace Ranch	28.0R	1-12" 1-16"				NO D	IVERSIC	N					
WALLACE CROSSING (OLD MERIOIAN-WILLIAMS BRIDGE)	29.2												
Olive Percy Davis, et al.	b 29.8R (0.4)	1-16"		174	758	768	820	870	161		3551		c,a 400
Fred Wilkins	29.8R (1.0)	1-14"				NO O	IVERSIC	N					
Olenn-Colusa Irrigation District	29.8R (1.4)	1-20" (e) 2-38"		1349	318	2378	3530	1979			9554	r	ſ
Olive Percy Davis, at al.	31.5L	1-24"				NO D	IVERSIC	N					
Olive Percy Davis, et al.	32.1R	1-16"		130	845	878	900	940	167		3860		с
Federel Fish and Wildlife Service	32.6R	1-16"			275	158	416	617	485	438	g 2389	h 295	
J. G. Olvey	32.6L	1-14"		72	527	456	515	555	208		1 2333		j 129
Arata Brothers	32.9L	1-8"								81	k 81	m 25	
Richard Moore	33.5L	1-12" 1-16"		306	526	560	559	467	12		2430		290
Federal Fish and Wildlife Service	36.65R	1-15" 1-20"		574	879	857	941	1010	953	812	n 6026		r 040
Federal Fish and Wildlife Service	37.0L (0.1)	1-15"							140		m 140	k 130	
COLUSA-WILLIAMS HIOHWAY	37.0												
Totals Average cubic feet per second Monthly use in per cent of season	al		231 4 0.3	7042 118 10.3	10832 176 15.9	14111 237 20.6	16031 261 23.5	14306 233 20.9	3831 64 5.0	1956 32 2.9	68340 141	3734	1100ft

Carries return water from Colusa Basin along west border of Reclamation Districts 108 and 787 and thence discharges to Sacramento River at Mile 34.15R or partial diversion via Knights Lending Ridge Cut. Hileage along Borrow Fit from junction with Sacramento River. Additional acre-feet diverted: Gocember 166. Flant moved from Mile 29.8R in 1955. Combined screage for Mile 29.8R (0.4) and 32.1R. Includes 60 acres Foderal Fish and Wildlife Service lands. One 38 unit was installed in 1955. See plant on Sacramento River, Mile 154.8R. .

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Additional scre-fect diverted: November 324 and Occember 105.
All duck refuge lands. Includes 70 acres which also received an undetermined anount of water from controlled drainage.
Additional scre-fect diverted: November 26 and December 37.
Includes 29 acres diver Percy Davis, et al. lands. Of this acreage, 50 was reused for duck ponds.
Additional acre-fect diverted: November 14.
All duck club lands.
Additional acre-fact diverted: November 40 and December 240.
Additional acre-foot diverted: November 7.

	Mile and Bank	Number and		Me	onthly (	lversic	ons in A	cre-Fee	t		Total Diversion	Acreage Ir	rigated
Water User	4	Size or Pump	Mar.	Apr.	May	June	July	Aug.	Sept.		Mar. to Oct. Acre-Feet	General	Rice
STATE HIGHWAY 24 BRIDGE	0.3												
SOUTHERN PACIFIC RAILROAD BRIDGE	0.7												
E. L. Wallace	0.8R	1-16" 1-20"	114	1394	1273	1580	1775	1917	736		8789	a,b 920	a 720
M. R. Richardson	0.821	1-14"											-

Mileage downstream from head on Back Borrow Pit near Knights Landing. Plow is principally Coluce Basin drainage divarted to the Ridge Cut by checking at Knights Landing Outfall Gates on Back Borrow Pit of Reclamation Olstrict 787.

This acreage also received an undetermined amount of well water.
 Includes 186 acres which also received an undetermined amount of water from controlled dreinage.

# TABLE 180 DIVERSIONS AND ACREAGES IRRIGATED - BACK BORROW PIT* - 1955

#### TABLE 181

#### DIVERSIONS AND ACREAGES IRRIGATED - KNIGHTS LANDING RIDGE CUT - 1955

TABLE 181 DIVERSIONS AND ACREAGES IRRIGATED - KNIGHTS LANDING RIDGE CUT + 1955 (contd.)

	Mile and Bank	Number and Size of		Ma	onthiy I	lverslo	ons in A	cre-Pee	ot		Total Diversion Mar. to Oct.	Acress Ir	rigsted
Autor Usor		Pump	Mer.	Apr.	May	June	July	Aug.	Sept.	Oct.	Acre-Peet	General	Rice
RECLAMATION DISTRICT 730 DRAIN PLANT #2	3.2R												
Ralph W. Pollock	3.5L	Gravity		43.	. •	43	21	19	L1		204	a 118	
W. K. Lowe	4.3R	3-10"		1426	1107	1349	1340	1308	300		ob 30		450
Ralph W. Pollock	4.5%	1-10 *				25	30	73	2		130	93	
Albert Bacchini	4.7R	1-1-9			24		15				47	23	
Rershey Estate (b)	4.75L	1-24,"		431	343,	322	325	5	32		1822		240
Laytor D. Kna gs	5.25R	1-1< "					282				282	195	
WEST LEVEE YOLO BY-PASS	5.3												
Sacramento River Ranch	6.3L	Gravity		173	1017	1126	1402	1228	734		c,d -960	c 1390	c 530
Rershey Estate (e)	6.3	Gravity		5 میا	874	840	796	4=5	135		3555	a 750	£ 275
Nershey Estate (g)	1.3H	Gravity				430	917				1347	600	
Totala Average cubic feet per second Nonthly use in per cent of seasonal			114 2 0+4	4132 69 14.3	4075 76 16.1	5715 96 19.7	_967 113 24.1	5383 88 18.6	1980 33 6.8	0000	28906 00	4089	2215

Milesge downstream from head on Back Borrow Pit near Knights Landing. Flow is principally Goluss Besin drainage diverted to the Ridge Gut by checking at Knights Landing Outfall Gates on Back Borrow Pit of Reclamation District 787. This acreage also received an undetermined amount of well water. New Installation in 1955. Includes 2,057 acre-feet of water served to 610 acres of general crops and 240 acres of rice in Reclamation District 1660. e

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d Three hundred and forty acres of general crops listed for Mile 6.3 also received 216 acresfeat of water from Mile 0.3L.
 o Proviously listed as R. Rich and L. Knagss.
 f This acreage also received 53 acresfeet of water from Mile 5.5N, Yolo By-Pass.
 g Proviously listed as E. L. Wallace

					14	DEE 102									
DIVERSIONS	AND	ACREAGES	IRRIGATED -	- Y	OLO	BY-PASS	(EAST	BORROW	PIT	OP	TULE	CANAL)	-	1955	

	Mile and Bank	Number and		He	onthly f	)iversic	ona in A	cre-Fee	e e		Total Diversion	Acresse Ir	righted
Water User	*	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar. to Oct. Acre-Feet	Goneral	Rice
Swanston Land Company (a)	e1.85	1-10" 1-18"				NOI	IVERSIO	22					
Swanston Land Company (a)	¢1.1S	1-18" 1-20"	1			NOI	IVERSI(	) N [					
OAGING STATION - YOLO BY-PASS BELOW SACRAMENTO BY-PASS	1.05												
Swanston Land Company (s)	e0.85	1-16"				301	DIVERSIO	RC RC					
Swanston Land Company (a)	•0.5S	b 1-12" 1-14"		373	591	706	721	713	156		3260		235
NORTH LEVEE SACRAMENTO BY-PASS RECORDING GAGE	0.0												
Swanston Land Company (a)	el.hN	c 1-16* c 1-20#		435	1328	1250	1846	192l4	756		7549	315	637
Ensher, Alexander and Barscom	2.43	1-20 ^H			150	531	254	302	55		1338	d 320	
SACRAMENTO-WOODLAND HIGHWAY	J.18M												
SACRAMENTO-WOODLAND RAILROAD BRIDGE	/.2R												
City of Woodland (e)	⊕5.5N	1-12"				104	121	11			236	£ 390	
CACHE CREEK-+	7.03												
Horshey Estate (g)	95.5N	1-16"		39	14						h 53		
KNIGHTS LANDING RIDGE CUT	9.6N												
RECLANTION DISTRICT 1600 ORAIN PLANT	10.0N												
Totals Average cubic fiet per second Eonthly se 1 per ent f measonal			0000	47 14 6.	2089 34 16.9	2601 44 20.9	2,82 40 24.0	2950 23-7	967 16 7.8	U 0 U	12430 26	1025	872

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This acreage also received an undetarnined amount of well water. Providually listed as Lou Ulrich. The main source of water for this acreage is the Woodland Sewer Parm. Mis minimum lists. Alis minimum was served to a '5 acres of rice listed for Mile 0.3. A lists Larding Nidge Cut. b B T

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DIVERSIONS	AND	ACREAGES	IRRIGATED	-	LOWER	BUTTE	CREEK	AND	BUTTE	SLOUGH	_	1955	

		Mile and Bank			Mo	onthly i	Diversio	ons in a	Acre-Fee			Total Diversion	Acre	
Water User			Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct Acre-Peet	General	Rice
			<u> </u>										denet di	
		*				L	ower But	1	-					
Reclamation District 1004(a)		3.2R	1-14"					64	63			127	35	
Reclamation District 833		3.3L	1-16"			20	464	683	349			1516	500	
Colusa Shooting Club		4.1L	1-16*					531	151	4	580	b 1266	c 700	
West Butte Farms Company		4.25L					200	355	162			717	450	
Reclamation District 1004		4.3R	1-20" 1-24"			927	1013	1036	1030	330		d 4336		130
El Anzar, Incorporated		5.7L	1-12"				156	215				371	150	
Pield and Tule		7.5L	1-8" 1-16"				NO OIVE	RSION						
Reclamation District 1004		11.8R (2.6)	Oravity			1618	2860	1919	620	519		e 7536	ſ	f
White Mallard Duck Club		11.8R	Gravity				NO DIVE	ERSION						
White Mallard Duck Club		11.8R (0.5)	1-12" 1~16"		89	270	291	560	450	148		g 1808	h 160	h 92
Reclamation District 1004	Opp.	14.4R (0.2)	Gravity		310	155						465	ſ	ſ
Murdock Land Company	Opp.	14.4R (0.4)	1~14"	]	52		122	78	4	71		327	280	
ORIDLEY ROAD BRIDGE		15.4												
Butte Basin Gun Clubs		15.6L	Gravity									1	J 4000	
Murdock Land Company		19.3R	1-16"		42	36	94	69	124	16	58	439	120	
EIGGS-AFTON ROAD BRIDGE		19.4												
Murdock Land Company	Opp.	19.6R (0.8)	1-14"								63	63	J 70	
Homar and Homar A. Charles k	Opp.	20.7R (0.8)	m 3~16"			1026	1072	<b>9</b> 86	1156	521	93	4854		in 300
McGowan Brothers	Opp.	20.9R (0.5)	p 1-16"		273	232	225	286	264	5		1285		110
McGowan Brothers		21.OR	1-20"				NO DIVE	RSION						
E. McPherrin		21.1L	1-16" q 1-20"		655	1350	1713	1865	1649	389		7621		r 854
R. H. Hulen Eatate	Opp.	21.4R (1.0)	1-16"		200	375	379	383	201			1538		130
McGowan Brothers	Opp.	22.4R (0.7)	1-16"				NO DIVE	RSION						
RICHVALE-BUTTE CITY ROAD BRI	DGE	22.5												
McGowan Brothers		23.OR	s 1-16" 1-20"		884	969	1154	1244	1299	310		5860		500
Harris Lands		23.OL	1-16"	6	55	41	71	46	82	95	26	t 422	95	
McGowan Brothera	Opp.	23.OR (0.75)	1-16"			100		129				229	110	
McGowan Brothers	Opp.	23.5R (1.2)	1-16"				NO DIVE	RSION						
McGowan Brothera	Opp.	24.OR (0.5)	u 1-16" s 1-20"		651 (	1112	926	887	856	333		4765		674
Ruth Baldwin and Charles K. Layton	Opp.	25.6L (0.6)	v 2-16"		473	975	978	1311	1155	412		5304		387
WESTERN CANAL DAM		30.3												
		**					Butte S	lough						
SACRAMENTO RIVER JUNCTION		0.0												
Butte Slough Irrigation Compar	ny	0,0	Gravity									W	w	W
M. Marty		0.3W	1~10"	18	107	45	86	209	187	51	27	x 730	215	
BUTTE CREEK		0.6E												
Mrs. Mamie M. Smith		0.9E	1-7"				NO DIVE	RSION						
Joe Marty		1.0W	1-6"		13	45	44	54	55	37		y 248	38	

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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. New installation in 1955. Additional acre-feet diverted: November 22. Includes 160 acres reused for duck ponds and 540 acres of duck ponds. Includes an undetermined amount of water served to 940 acres of rice and 640 acres of general crops listed for Mile 89.25L, Sacramento River. Additional acre-feet diverted: January 52, November 146, and December 177. The November and December diversion was arved to 500 acres of rice land, reused for duck ponds, listed for Mile 89.25L, Sacramento River, Additional acre-feet diverted: November 3,000 and December 1,500. See plant on Sacramento River, Mile 112.1L. Additional acre-feet diverted: January 152 and December 149. This acreage was reused for duck ponda. Estimated acre-feet diverted: November 3,000 and December 1,500. All duck club lands. Formerly listed as McGowan Brothers.

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One 16" unit was a temporary installation during 1955. Includes 30 acres reused for duck ponds. A 16" portable unit was also operated at this location during 1955. n p q r

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A lo" portable unit was also operated at this location during 1955. Previoualy listed as a 24" unit. This acreage also received an undetermined amount of well water for flooding only. Portable units, a 14" and a 16", were also operated at this location during 1955. Additional acre-feet diverted: November 17. The 16" unit was installed in 1955. 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 flacharge into East and West Borrow Pits of Sutter Ey-Fass near "Long Eridge." The Outfall Gates are anintained by the Division of Water Re-sources and are operated cooperatively with the Butte Slough Irrigation Co. See Sutter By-Pass Diversions. Additional acre-feet diverted: November 10. Additional acre-feet diverted: January 5.

TABLE 183 DIVERSIONS AND ACREAGES IRRIGATED - LOWER BUTTE CREEK AND BUTTE SLOUGH - 1955 (contd.)

	Mile and Bank	Number and Size of		Ma	onthly 1	Diversio	ona in 1	Acre-Pee	et		Total Diversion Mar Oct.	Acre Irrig	
Water User		Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Acre-Peet	General	Rice
	**				Butt	e Sloup	h (con	t <u>d.)</u>					
Mrs. Mamie M. Smith	1.4E	1-8"				100	123	63			286	137	
Fred Tarke	1.9W	1-14"		137			94				231	120	
MAWSON BRIDGE	2.1												
C. W. Rawley	2.5W	1-14"				148	180	82			410;	315	
J. E. Smith	3.0W	1-10"				39	61	153	3		256	118	
Pearl Clark and Alice Brewer	3.5W	1-10"		48	32	77	63	59	50	16	345	a 118	
P. A. Reische	3.7W	1-10"		15		4	39			1	58	50	
Granniman and Pieth	4.08%	1-6"			6	2	3	4			15	6	
P. A. Reische	4.1W	1-10**		89		64	37	7	4		201	b 162	
W. J. Hankins	4.8W	1-12"	30	22		66	303	308	15		744	c 308	
P. B. Hensen	5.1W	1~12"	54	60	65	138	53	73	23		e 466	109	
Totals Average cubic feet per second Monthly use in per cent of seasonal			108 2 0.2	4175 70 7.6	9399 153 17.1	12486 210 22,8	13866 226 25.3	172	3336 56 6.1	863 14 1.6	113	8366	317

Mileage on Butte Slough is from ita junction with Sacramento River at Mile 84.0L.
 (a) Of this acreage, 49 was double cropped.

(b) Includes 75 acres of C. Reische lands.
(c) The acreage listed for Mile 4.8W also received an undetermined amount of water from Mile 5.1W.

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DIVERSIONS AND ACREAGES IRRIGATED - SUTTER BY-PASS AND SACRAMENTO SLOUGH - 1955

	Mile and Bank			M	onthly 1	Diversi	ons in	Acre-Fe	et		Total Diversion	Acre Irria	age gated
Water User		Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
	*			West	Borrow	Pit of	Sutter	By-Fas	3 **				
SOUTHERN PACIFIC RAILROAD BRIDGE	2.5												
C. Fred Holmes	8.OR	1-18"				NO DIV	ERSION						
STATE HIGHWAY 24 CAUSEWAY	12.7												
Sutter Mutual Water Company	17.5R	1-18"				NO DIV	ERSION						
SOUTH LEVEE OF TISDALE BY-FASS	18.9R	Í											
RECLAMATION DISTRICT 1660 ORAVITY DRAIN	19.3R												
O. Quist1 and Sons	23.7R	1-16" 1-24"		393	1248	1870	1270	1156	512		6449	735	462
Butte Slough Irrigation Company Limited	25.OR	Gravity	101	339	384	445	520	349	78		2216	a 3365	a 612
Eutte Slough Irrigation Company Limited	28.4R	Oravity	434	1253	1253	1872	2261	1922	699		9694	a	8
Pred Tarke	28.6 <b>R</b>	b 1-4"		22		31	32	26			111	54	
Frye Brothers	29.0R	1-7"				24	19				43	26	
STATE HIGHWAY 20 BRIDGE	29.1												
Fred Tarke	29.2R	1-10"		29		31	16	12			88	e 47	
SACRAMENTO NORTHERN RAILROAD BRIDGE	29.25												
	<b>R</b> R			East	Borrow	Pit of	Sutter	By-Pas	3 **				
R. E. Hughes #8	•0.95S	1-16"			438	488	483	455	58		1922		200
T. H. Richards	0.55	1-18"			452	785	1054	959	639		3889	184	355
WILLOW SLOUGH	0.0												
R. E. Hughes #7	*0.5N	d 1-14" 1-20"		74	185	40	60	72			431	e	e

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Asterick indicetes area irrigated is within By-Pass. Water used for irrigation in Sutter By-Pass is mainly Peather River return water which enters East and West Borrow Pits vis Butte Creek, Butte Slough, and Wadeworth Canal. 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. 9

Mileages on East Borrow Pit are given northerly or southerly from Chandler.
 Combined acreage for Mile 25,0R and 28,4R.
 Replaces s 2" unit and a 12" unit.
 Of this acreage, 16 was double cropped.
 The 14" unit was a temporary installation during 1955.

	Mile and Bank	Number and		M	lonthly	Diversi	ona in	Acre-Fe	et		Total Diversion	Acre Irrig	
Water User		Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
	**		F	aat Bor	row Pit	of Sut	ter By-	Pasa **	(contd.	,			
RECLAMATION BOARD DRAINAGE	1.4N		-							Í			
PLANT #1													
Cliff P. Childers	8(0.3)	1-16"		312	709	628	592	554			2795		220
Cliff P. Childers	8(1.29)	1-16"		77	92		138	38			345	300	
E. H. Christensen and Sons	8(1.3)	1-16"			242	199	299	204			944	a 600	
E. H. Christensen and Sons	(1.75)	1-16"				NO DIV.	1						
E. H. Christensen(b)	8(3.3)	1-12" 1-16"		66	645	606	651	811	228		a 3007		320
E. H. Christensen	8(4.0)	1-18"		478	804	707	796	771	183		3739		320
Rai Brothers(c)	8(4.3)	1-12"			29	199	241	228	106		803		d 95
E. H. Christensen(c)	8(4.35)	1-16"		327	637	557	709	731	160		3121		320
R. E. Hughes #6	*1.5N	e 1-16"		100	729	681	705	777	55		3047	£ 500	f 200
R. E. Hughes #5	*2.9N	1-14"		70	359	200	74	435	60		1198	180	160
Leona Hughea	#4,0N	1-14" 1-16"			166		216				382	370	
STATE HIOHWAY 24 CAUSEWAY	4.3N	1-10											
Leona Hughes	*4.5N	1-14"		77	623	639	650	638	203		2830		180
		1-15"						- 2 -					
Ira Mulligan	5.7N	1-16"		49	571	715	662	763	275		3035	137	227
R. J. Hughea #2	*5.9N	1-14"			66	190	227	83			566	400	
J. Etcheverry	5.91N	1-14"			977	997	973	966	455		4368	210	210
0. 0. Orrick	•6.9N	2-16"		147	785	652	652	660	124		3020	190	245
Ira Mulligan	7.1N	1-16"			88	241	120	14			463	345	
GILSIZER SLOUOH	8.ON												
0. 0. Orrick(c)	*8.0N (0.45)	1-16"				66	45	58			169	140	
Leona Hughes	*8.0N (0.5)	1-6"					REMOVED						
Crepps and Middleton	8,4N	1-12" 1-16"				PLANT	REMOVED						
Crepps and Middleton	*9.99N	1-15"			145	177	203	228	120	2	875		79
Creppa and Middleton	*10.0N	1-16"							338	97	g 435	h 350	
RECLAMATION BOARD DRAINAGE PLANT #2	10.0N												
Crepps and Middleton	X(0.3)	1-12"			245	346	366	416	259		1632		78
Dettling Brothers	¥(0.9)	1-20"					250	146	109		505	285	10
Rodeo Rooster Club	X(1.5)	1-3"				ŀ					1	25	
Sutter Extension Water District	X(2.0)	1-20" 1-30"			704		632	3442	1277		6055	J	J
Ira Mulligan	¥(2.3)	1~10"			127	122	233	218	75		k 775		30
Ira Mulligan	X(2.5)	1-16"			238	246	411	407	212	9	1523		130
Bridge Investment Company	봤(2,6)	1-16" 1-20"		526	520	710	856	744	363	125	m 3844	693	
Bridge Investment Company	봤(2.65)	1-20" 1-14" 1-20"		215							215	130	
Bridge Investment Company	¥(3.0)	1-12"		40	104	92	121	151	32	16	n 556	180	
Guisti and DeMartini	¥(3.5)	1-16"				NO DIV	ERSION						
Percy Davis	X(4.5)	1-12"	23	83	22	71	144	89	88	73	p 593	120	
Sutter Extension Water District	봤(6.7)	1-20"		98	9		770	1403	154		2434	J	J
Federal Fish and Wildlife Service(q	) •11.5N	1-10"					140	194	99		433	200	
Federal Fish and Wildlife Service(q	) +12.0N	1-6"			-			18			18	20	

Asterick indicates area irrigated is within Ey-Pass. Water used for irrigation in Sutter Ey-Pass is mainly Feather River return water which enters East and West Borrow Pits via Butte Creek, Butte Slough, and Wadsworth Canal. Mileages on East Borrow Pit are given northerly or southerly from Chandler. Plant is on the main drainage canal for Drainage Flart #1 that joins East Borrow Pit, Sutter Ey-Pass at Mile 1.4W. 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 Ey-Pass at Mile 10.0W. Figure in () indi-cates distance along drain from East Borrow Pit. Three hundred acres listed for Mile 8(1,3) also received an undetermined amount of water from Mile 8(3,3). **

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b Listed as two plants prior to 1955.
c New installation in 1955.
d This acreage also received an undetermined amount of well water.
e Freviously listed as a 14" unit.
f Combined acreage for Miles 0.5N and 1.5N.
A Additional acre-feet diverted: November 32.
h All duck club lands.
i Acre-feet diverted: November 10.
j See plant on Feather River, Mile 38.1R
A Additional acre-feet diverted: November 46.
n Additional acre-feet diverted: November 43.
p Additional acre-feet diverted: November 13.
p Additional acre-feet diverted: November 14.
q Re-installation in 1955 of a plant previously removed.

#### TABLE 18-

DIVERSIONS AND ACREAGES IRRIGATED - SUTTER BY-PASS AND SACRAMENTO SLOUGH - 1955 (contd.)

	Mile and Bank	Number and		Ma	onthly 1	Diversio	ons in /	lore-Pee	et		Total Diversion	Acre Irrig	
Water User		Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
	<b>9</b> .9			East Bor	TON P1	of Su	tter By-	-Pass (	contd.)				
Federal Fish and Wildlife Service	•16.38	1-20" Oravity			757	1160	1710	1420	1267	1309	a 7653	b 400	ъ 400
R. A. Schnabel	•16.48	1-14"		22	24	26	35	38	15	32	192	e 45	
WADSWORTH CANAL	16.5%												
R. A. Schnabel	(1.0L)	1-16"				35	111	26			172	110	
Fred S. Betty	♥(1.OR)	1-10"		50		71	94	~1	72	29	+01	60	
H. T. and H. D. Brown	∜(1.35R	1-10" 1-12"		51	283	276	344	339	102		d 1395	50	e 140
A. H. Mune	♥(1.36R	1-1 :"		87	370	243	252	275	91		d 1321		\$ 106
Vesper Kellogg	∜(1.5L)	1-14"		64							64	106	
Albert Thomasen	∜(1.7R)	1-16"		252	302	309	317	261	83		1524		95
STATE HIGHWAY 20 BRIDGE	(2.0)												
Epperson, Kennedy, and Joaquin	∜(2.5R)	1-10"			83	38	203	191	<b>9</b> 6		611		g 60
Clara Farrington	∜(2.5R)	1-10"			167	214					381		g
Youill Joaquin	∜(3.CL)	1-14*		203	250	262	283	265	113	26	1402		h 95
Gilbert Williamson	∜(3.6R)	1-10" 1-16"		130	127	132	139	129			657		+8
GAGING STATION - WADSWORTH CANAL AT BUTTE HOUSE ROAD	(3.6)												
RECLAMATION BOARD DRAINAGE PLANT #3	16.7N												
Fred S. Betty	8(0.9)	1-8"	4	30	35	40	30	45	48	9	241	90	ļ
Fred S. Betty	8(1.0)	1-10"	2	10	19	16	13	14	11	5	90	15	
Fred S. Betty	8(1.3)	1-14"		166	365	359	401	505	121		1917		109
Fred S. Betty	8(1.4)	1-16"		ł		NO DIV	ERSION						
Mrs. H. C. and C. H. Epperson	8(1.49)	1-10"		32	52	58	53				1 195	80	
Mrs. H. C. and C. H. Epperson	8(1.5)	1-20"		241	87	128	127	114	8		705		j 260
H. C. and C. N. Epperson	8(1.51)	1-16"		330	736	695	688	693	~5		318**		J
T. Bihlman(k)	8(1.85)	1-14"			269	276	404	~09	239		m 1597		n 2~3
Mrs. H. C. and C. H. Epperson(k)	8(2.65)	1-8"					73				73	50	
Elden Tarke	8(0)	p 1-16"		41	417	402	<b>≈</b> 56	468	161		1945		123
Edward Dean	*16.7N	1-12"			89	61	70	51	46	44	q 361	e 128	
Edward Dean	•16.75N	1-16"				NO DIV	ERSION	í			1		1
Frye, Bryant, and Frye	+18.6N	1-20"			1	NO DIV	ERSION						
Epperson, Myers, De Witt and Middleton	19.1N	p 1-12"			488	517	431	147			1583	<b>r</b> 663	
T. S. Madden	19.9N	1-16"		205	358	335	361	365	123		1747		161
STATE HIGHWAY 20 BRIDGE	19.98N												
SACRAMENTO NORTHERN RAILROAD BRIDGE	20.0N												
	×				<u>s</u>	acramen	to Slou	<u>zh</u>					
C. Fred Holmse	1.4R	1-12"				NO DIV	ERSION						
Totals Average cubic feet per second Monthly use in per cent of seasonal			564 9 0.5	0689 112 6.2	18948 308 17.6	20280 341 18.8	24186 393 22.4	25937 422 24.0	9602 161 8.9	1776 29 1.6	107982 222		6183

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Mileage on East Borrow Pit is given northerly or southerly from Chandler. Asterick indicates area irrigated is within By-Fase Plant is on Wadeworth Canal which joins East Borrow Pit, Sutter By-Fasa at Mile 16.5N. Figures in () indicates dis-tance along Canal from East Borrow Pit. Plant is on Poodle Creek which joins East Borrow Pit, Sutter By-Fasa at Mile 16.7N. Figure in () indicates dis-tance along creek from East Borrow Pit. Mileage on Sacramento Slough is given easterly from drainage plant of Reclamation District 1500 which is at beed of Slough. Ť. plant Slough

- Slough. Additional scre-feet diverted: November 893 and December 446. All duck refuge lands. This acreage was reused for duck ponds. An undetermined amount of water was exchanged between plants et Mile 9(1,35R) and 9(1,35R). Includes 140 acree of Kennedy lands.
- c d
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- f Includea 16 acres of Kellogg lands.
  g Combined acreage for plants at Mile 8(2.5R).
  h Of this acreage for plants at Mile 8(2.5R).
  h Of this acreage 50 was re-flooded in October.
  i Two hundred and sixty six acres of Epperson lands listed for Mile 19.1N also received an undetermined amount of water from Mile 6(1.49).
  j Combined acreage for Miles 8(1.5) and 8(1.51).
  k New installation in 1955.
  m Additional scre-feet diverted: November 11 and December 4.
  n Includes 6 acres reused for duck ponds.
  p Replaces a 14" unit.
  q Additional acre-feet diverted: January 5, November 21, and December 9.

- Additional acre-feet diverted: January  $_{\rm N}$ , November 21, and December 9. Includes acreage as follows: Middleton 100, Bertha DeWitt 53, M. 0. DeWitt 47, LeRoy Myers 47, W. Nall 80, Madden 70, and Epperson 266. Two hundred and sixty fix acres of Epperson lands listed for Mile 19.1N also received an undetermined amount of wster from 16.7N (1.49E). r

	Mile and Bank	Number and		М	onthly	Diversi	ona in	Acre-Fe	et		Total Diversion	Acre	eage gated
Water User	sbove Mouth	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Peet	General	Rice
Walter Raymond	0.68	1-20"					142				142	145	
Walter Raymond	1.OR	1-16"				49	127	13			189	535	
Kipp and Reith	2.2L	1-18"			88	120	84	40	111		443	160	
Walter Raymond	2.6R	2~20"				354	888	387	2	1	1632	780	
John C. Johnston	3.0L	1-10"				8					8	28	
D. R. Toledo and Son(a)	5.2L	1-12"		21	83	92	88	98	92	22	496	90	
White Oak Ranch	5.6L	1-14"		68	124	210	197	153	168	7	927	180	
A. L. Haymore	6.44L	1-10"		97	69	64	91	115	142		b 578	140	
M. Scheiber	7.7L	1-10"		32	174	226	163	170	141	58	964	229	
GAGING STATION - FEATHER RIVER AT NICOLAUS	c 9.2L												
NICOLAUS BRIDGE	9.4												
T. H. Richards	9.75R	1-20"				NO DIV	ERSION						
MOUTH OP BEAR RIVER	12.0L												
Garden Highway Mutual Water Company	13.1R	2-20" 1-24"	245	2077	3318	3067	3208	2791	1018		15724	1562	1489
Farm Lands and/or Plumas Mutual Water Company	17.5L	2-20"	167	861	2135	2263	2515	5355	1035	452	d 11750	e 1904	470
Oswald Water District	21.4R	2-16"	48	415	668	525	483	437	393		2969	£ 660	
GAGING STATION - FEATHER RIVER BELOW SHANGHAI BEND	23.OR												
Earl R. Huffmaster	25.2R	1-10"		1	74		24	2	9		110	g 150	
MOUTH OF YUBA RIVER	27.3L												
GAGING STATION- FEATHER RIVER AT YUBA CITY	28,0R												
10TH STREET HIGHWAY BRIDGE	28,2												
Thomas, Peroni, Campisi, Perrucci and Chandler(a)	31.2R	1-22"				1					1	110	
Thomas, Peroni, Campisi, and Perrucci(a)	31.2R	1-4"				11					11	50	
Ray Chandler	32.3R	1-10"				NO DIVI	ERSION						
Henry Everett(a)	33.2R	1-4"				10	9				19	45	
A. A. Sligar and Son	33.2L	h 2-3"					24	44	31		99	1 191	
G. D. Prindiville	33.3R	1-10"	112	75		139	107	77			510	126	
J. L. Sullivan, Jr.	33.9R	1-10"	101	115		85	92	57			450	115	
Sutter Extension Water District	38.1R	1-26" 2-42"	5		179	41	3346	3048	523		7142	j 2364	J 7817
La Pinca Orchard	38.5L	k 1-5"				6	l				7	18	
HONCUT SLOUGH	43.7L												
Mathews, Sullivan, and Prindiville	*(0.4L)	1-18"	173	165	89	322	375	127			1251	339	
Jesse Frakea	*(1.2L)	1-8"		5	3	15	34	7			64	63	
Ray Washburn	*(1.25L)	1-8"	43	37	55	69	76	65	28	20	m 393	108	
W. R. Madsen	44.OR	1-4"				7	23	14	7		51	55	
W. Earl Willey	44.5R	1-7"				14	14	12	4		44	27	
Herringer Enterprise (n)	46.3L	1-20" 1-24"	78	586	117	288	1767	1959	1063	17	5875	1384	
Manuel Aguiar	47.4L	1-7"				15	19	15	9	2	60	60	
Manuel Aguiar	47.9L	1-12"		46	38	129	121	161	39	14	548	p 265	
Robert S. Biggs	48.0L	1-7"	12	40	12	75	134	95	22		390	q 365	

Honcut Slough - Plant diverts Peather River water backed into Slougn. Mouth of Slough at Mile 43.7L. Distance from Feather River and bank is shown in ().
New installation in 1955.
Additional acre-feet diverted: November 25.
Gaging station moved to this location in 1955.
Additional acre-feet diverted: November 19.
This acreage also received an undetermined amount of water from wells and controlled drainage.
Includes 460 acres which also received an undetermined amount of well water.
This acreage also received an undetermined amount of well water.
One 3" unit was installed in 1955. *

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Includes 25 acres of Frandrup lands. This is the combined acreage for plant at Mile 38.1R, the Sutter extension water district diversion at Mile 58.1R, and the plants on Sutter By-Pass, East Borrow Fit at Mile 10.0N, (2.0), and (6.7). This acreage also received an undetermined amount of controlled drainage water. Replaces a 4" unit. Additional scre-feet diverted: November 12. Formerly listed as Fred Harrington and Brothers. Of this acreage, 75 also received an undetermined amount of well water. The acreage listed for Mile 48.0L also received an undetermined amount of water from Mile 48.3L. 1 J

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TABLE 185 DIVERSIONS AND ACREAGES IRRIGATED - FEATHER RIVER - 1955

			TABLE 1	18	5					
DIVERSIONS	AND	ACREAGES	IRRIGATED	_	PEATHER	RIVER	-	1955	(contd.)	

	Mile and Bank	Number and		٢	bonthly	Diverai	ona in	Acre-Fee	et		Total Diversion	Acre Irrig	
Water User	above Mouth	Size of Pump	Mar.	Apr	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
Robert S. Bigga	48.3L	1-10"			6	59	150	75	38		a 328	60	
Bowera Ranch	49.0L	1-8"		8	12	90	53	27	18	20	228	56	
ORIDLEY BRIDGE - OAGING STATION- FEATHER RIVER NEAR ORIDLEY	49.7												
Robinson Estate	50.4L	1-14"				7	80	28			115	b 360	
M. A. Fedroza and Sons	50.7L	1-6"	16	23	51	63	64	64	51	10	342	94	
S. T. Machado	50.7R	1-8" 1-10"			37	296	285	112	164		894	191	
Frank E. Norton	51.OR	1-6"				NO DIV	ERSION						
A. E. Bettencourt	51.0L	1-6"	2	16	30	40	49	31	27	18	213	36	
Steadman Orcharda	51.4R	1-10"				NO DIV	ERSION						
Cheater L. Hoar	51.6R	1-6"				26	2				28	48	
S. J. and J. R. Fratua	52.1L	1-10" c 1-12"			285	310	283	272	124		1274	55	80
S. J. and J. R. Fratus	52.2L	1-5"				NO DIV	ERSION						
Mart Butler	52.5L	1-7"				49	62	47	19	16	d 193	77	
A. K. Johnson	52.7L	1-8"		8	29	53	33	38	18	16	e 195	74	
Hearat Magazines, Incorporated	55.1L	1-14"				NO DIV	ERSION						
SUTTER BUTTE CANAL COMPANY DAM	57.9												
Nenry Haselbuach	57.9R	1-9"		2	10	52		23			87	48	
Sutter Butte Canal Company	f 58.1R	Oravity	5853	25938	23464	24663	24855	21039	19210	21638	g 166660	13618	1549
Biggs West Oridley Water District .	r 58.1R	Gravity	849	14959	27983	25835	24458	23058	10693	4167	h 132002	4269	8164
Richvale Irrigation District	f 58.1R	Gravity		12230	25309	23566	20912	17825	8053	230	108125	225	11254
Sutter Extension Water District	r 58.1R	Gravity	50	20636	31977	30545	19472	16364	10005	3711	1 132760	3	3
WESTERN CANAL COMPANY DAM	61.1												
Weatern Canal Company	61.2R	Gravity		13916	23268	<b>2</b> 6253	29042	27009	7894	9322	k 136704	3006	16890
OROVILLE-RICHVALE HIGHWAY BRIDGE	62.6												
OROVILLE CHICO HIGHWAY BRIDGE	65.0												
GAGING STATION - FEATHER RIVER NEAR OROVILLE	71.0												
Totala Average cubic feet per aecond Monthly use in per cent of aeasonal			7754 126 1.1	92377 1552 12.6	139687 2272 19.1	140112 2355 19.1	133952 2178 18.3	118221 1923 16.1	61151 1028 8.3	397 <b>41</b> 646 5.4	732995 1508	34432	47713

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The acreage listed for Mile 48.0L also received an undetermined amount of water from Mile 48.3L. This acreage also received an undetermined amount of well water. The 12" unit was installed in 1955. Additional acre-feet diverted: November 9. Additional acre-feet diverted: November 4. This is a common point of diversion for Sutter Butte Canal Company, Bigga-West Gridley Water District, Richvale Irrigation District, and Sutter Extension Water District. Additional acre-feet diverted: November 6,315. ъ c d

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h Additional acre-feet diverted: November 319.
i Additional acre-feet diverted: November 1,438.
j Combined acreage for plant at Mile 38.1R, the Sutter Extension Water District diversion at Mile 58.1R, and the plants on Sutter By-Pass, East Borrow Pit at Mile 10.0N (2.0), and (6.7).
k Additional acre-feet of duck water diverted: November 4,122. Includes 408 acre-feet in September and 9,322 acre-feet in October of duck water.

	Mile and Bank above "D"	Number and Size of		М	onthly	Diversio	ona in .	Acre-Pe	et		Total Diversion Mar Oct.	Acre Irrig	
Water Uaer	Street	Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
HIGHWAY 99E BRIDGE ("D" STREET)	0.0												
Richard Wilbur	0.9L	1-10"			27	65	73	52			217	98	
OAGING STATION - YUBA RIVER AT MARYSVILLE (SIMPSON LANE BRIDGE)	0.9												
Ben williams	1.4R	1-4"				NO DIVI	ERSION						
W. B. Harrington	1.8R	1-6"			37	29	36	29	15	14	160	44	

## TABLE 186

OIVERSIONS AND ACREAGES IRRIGATED - YUBA RIVER - 1955

	DIVERSIONS	AND ACRE	AGES I	RRIOATE	D - YUB	A RIVER	- 1955	(contd	.)				
	Mile and Bank above "D"	Number and Size of		M	onthly	Diversi	one in .	Acre-Fe	et		Total Diversion Mar Oct.	Acre Irrig	
Water User	Street	Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.		General	Rice
W. E. Harrington	2.2L	1-4" 1-5"			3	20	13	19	13		68	18	
River Bend Ranch	3.0L	1-14"	18	7		111	151	5			292	a 180	
River Bend Ranch	3.1R	1-12"			9	45	34				88	33	
E. O. Rubke	4.1L	2-14"		83	70	87	284	336	116		976	b 230	
E. O. Rubke	4.3L	1-10"		1		76	42	103			222	ъ	
Di Oiorgio Fruit Corporation	4.75L	1-6"	25	105	40	57	52	42	32		353	a 144	
GAGING STATION - YUBA RIVER NEAR MARYSVILLE	5.2												
Scott Hendricks	6.2L	1-12"				NO DIV	ERSION						
DAGUERRE POINT DAM	11.0												
Hallwood Irrigation Company	11.OR	Gravity	883	7213	10729	14875	19163	14718	8078	3931	c 79590	5690	1549
Cordua Irrigation District	ll.OR	Oravity		6110	9865	11901	11609	11519	5872	4301	d 61177	e 2665	f 3143
Yuba Consolidated Gold Field Company	14.5L	Gravity			NO	AGRICU	LTURAL	USE					
HIGHWAY 20 BRIDGE	17.1												
NARROWS DAM	22.8												
Totals Average cubic feet per second Monthly use in per cent of seasonal			926 15 0.6	13519 227 9.4	20780 338 14.5	27266 458 19.1	31457 512 22.0	26823 436 18.7	14126 237 9.9	8246 134 5.8	143143 295	9102	4692

TABLE 186

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This acreage also received an undetermined amount of well water. Combined acreage for Miles 4.1L and 4.3L. Additional acre-feet diverted: November 2,918, December 1,027. b c

d Additional acre-feet diverted: January 1,269, November 3,227, and December 1,726.
 e Includes 130 acres outside the district.
 27. f Includes 26 acres outside the district.

	Mile and Bank			М	onthly	Diversi	ona in	Acre-Fe	et		Total Diversion Mar Oct.		eage gated
Water User	above Mouth	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Acre-Feet	Oeneral	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 DIV	ERSION						
W. H. Oilbert	8.1R	1-6"		8	8	24					40	a 50	
California Facking Corporation	10.7L	1-10"			35	118	112	113	17		395	a 240	
HIGHWAY 99E BRIDGE	11.3												
GAGING STATION - BEAR RIVER NEAR WHEATLAND	11.3												
SOUTHERN PACIFIC RAILROAD BRIDGE	11.35												
Totals Average cubic feet per second Monthly use in per cent of seasonal			0 0 0	8 0 1.8	°43 1 9.9	142 2 32.6	112 25.8	113 2 26.0	17 0 3.9	0 0 0	435 1	290	•

## TABLE 187

DIVERSIONS AND ACREAGES IRRIGATED - BEAR RIVER - 1955

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

 TAB	LE	194	5

DIVERSIONS AND ACREAGES IRRIGATED - AMERICAN RIVER - 1955

	Mile and Bank above	Number and Size of		м	onthly	Diversi	ons in	Acre-Fe	et		Total Diversion Mar Oct.		eage gated
Water User	Mouth	Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Acre-Feet	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	13		12	11	19	10		67	9	
North Sacramento Lande Company	2.65R	1~8"				NO DIV	ERSION						
North Sacramento Lands Company	2.75R	1-5"				6	1	5			12	32	
SOUTHERN PACIFIC RAILROAD BRIDGE	3.0												
OAOING STATION - AMERICAN RIVER AT SACRAMENTO (H STREET)	6.0												
E. Clemens Norst Company	6.5R	1-6"			3	48	33				84	a 440	
E. Clemens Horst Company	7.5R	1-8"				53	59				112	a	
J. L. Haas, Incorporated	7.7R	1-4"	1	11		40	52	23		2	129	84	
Del Faso Rock Products Company	8.9R	1-12"			NO	AGRICU	LTURAL 1	USE					
Walter J. Wissemann	9.0L	1-6"				28	34	27			89	37	
0. L. Browning	9.05R	1-5"				NO DIV	ERSION						
J. O. and F. F. Dauenhauer	9.2L	1-8"				NO DIV	ERSION						
Ruth Coleman	9.4L	1-5"				NO DIV	ERSIÓN						
Del Faso Rock Products Company	10.2R	1-b"		1	15	36	54	24	23		153	50	
Gold Nugget Orchard Company	10.4R	1-5"				9			19		28	17	
Mucke Sand and Oravel Company	11.2L	1-6"	1	2	2	4	7	7	6	4	b 33	24	
J. T. Gore	11.5L	1-4"					30	17	9	9	65	45	
William A. Meyer	11.7L	1-4"				10	14	7			31	25	
J. R. Deterding	15.8R	1-4"		5	9	18	17	21	15	11	96	55	
Carmichael Irrigation District	16.OR	1-6" 3-12"	21	88	235	830	966	848	560	264	c 3812	d 3626	
GAGING STATION - AMERICAN RIVER AT PAIR OAKS	19.2												
Totals Average cubic feet per second Monthly use in per cent of seasonal			25 0.5	120 2.6	264 4 5.6	1094 18 23.2	1278 21 27.1	998 16 21.2	642 11 13.6	290 5 6.2	4711 10	44444	

a Combined acreage for Miles 6.5R and 7.5R. This acreage also received an undetermined amount of well water.
 b Additional acre-feet diverted: November 2.

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Additional acre-fect diverted: November 13*.
 District is suburban land and no segregation of irrigated acreage is available.

TABLE 189

DIVERSIONS AND ACREAGES IRRIGATED - COSUMNES RIVER** - 1955

	Mile and Bank above	Number and Size of		м	onthly	Diversi	ons in	Acre-Fe	et	_	Total Diversion Mar Oct.		eage gated
Water User	Mouth	Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Acre-Feet	General	Rice
WESTERN PACIFIC RAILROAD BRIDGE	0.4												
R. L. Deller(a)	0.8R	1-12"			8	47	45	55	13		b 168	45	
R. L. Deller(c)	1.7R	1-10"				3	6	8			17	50	
Kenworthy and Fatterson	2.0L	1-30"		50	466	431	446	526	277		2196	290	130
Desmond Ranch (c)	2.8R	1-12"				18					18	đ	
A. N. Watson(c)	2.8L	1-8"			65	139	141	111	99		555		e 136
Deamond Ranch(a)	3.1R	1-10"				12	26				38	d 90	
STATE HIGHWAY 104 BRIDGE	5.3												
Fred O. Cary	6.0L	1~3"				NO DIV	ERSION						

Diversions shown in this table below the McConnel Oaging Station are considered as Delta Uplands Diversions. Tidal effect ceases at about Mile 3.5.
 New installation in 1955.
 Additional acre-feet diverted: November 9.

c Installed prior to 1955. Not previously listed.
 d Combined acreage for Miles 2.88 and 3.18.
 e This screage also received an undetermined amount of water from controlled drainage.

	Mile and Bank	Number and		Ma	onthly 1	Diverai	ons in a	Acre-Fee	et		Total Diversion	Acre	eage gated
Water User	above Mouth	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
L. G. Kilkeary and H. Trevor	9.8R	1-16"				111	3				a 114	ъ 765	
Jack Lewis(c)	10,5R	1-6"		28	37	88	7				160	b 95	
SOUTHERN PACIPIC RAILROAD BRIDGE	10,6												
U. S. 50 AND 99 HIGHWAY BRIDGE	10.7												
GAGINO STATION - COSUMNES RIVER AT McCONNELL	10.7												
J. C. Carli	14.3R	1-10"			14	49	23				86	40	
J. C. Carli	14.4R	1-10"				NO DIV	ERSION						
M. F. Larkin	14.6L	1-5"				7					7	25	
PREEMAN ROAD BRIDGE	14.9												
Ralph Nix	15.2L	1~8"				NO DIV	ERSION						
H. A. Saner	15.4R	1~8"				NO DIV	ERSION						
J. I. Nix	15.8L	1-6"				NO DIV	ERSION						
WILTON ROAD BRIDGE	16.8												
CENTRAL CALIFORNIA TRACTION COMPANY RAILROAD BRIDGE	16.8												
George D. Beitzel	18.2R	1-12"		2	3	90	37				132	ь 135	
Bradley Ranch(d)	18.9R	1-6"				15	7				22	42	
Bright Estate	20.1R	e 1-10"	44	45	52	448	393				982	ь 300	
J. I. Hass, Incorporated	20.9R	1-12"				PLANT 1	REMOVED						
F. Barbero	21.6L	1-6"				19					19	ъ 30	
Rooney Brothers	23.7R	1-12"				58	41				99	b 120	
Cothrin and Orimahaw(f)	24.4R	1-8"				58	68				126	b 100	
DILLARD ROAD BRIDGE	24.8												
P. Westerberg	25.5R	g 1-10"				93	124				h 217	b 125	
A. V. Signorotti	1 25.7R	1-3"		1		1	1	1			4	3	
P. M. Orimshaw(J)	25.9R	1-8"		15		22	19				56	25	
A. V. Signorotti	26.3R	1-5"		9		7	7	1			24	17	
P. Morse Orimahaw	26.4R	1-6"				9	8	6			23	8	
G. C. Johnson	26.5L	k 1-6"				14	13				27	m 190	
G. C. Johnson	27.3L	n 1-5"				89	125	37			251	m	
R. Sartain(d)	27.6R	1-5"				9	13	12	10		44	20	
F. Silva, Jr.	27.8L	1-6" 1-8"			30	113	95	36	27	17	318	в 165	
R. Sartain	28.6R	1-5"				NO DIVI	ERSION						
Schneider Ranch	30.0L	1-8"	10	37	12	122	121	113	102	103	p 620	105	
STATE HIGHWAY SIXTEEN BRIDGE	31.3												
A. Oranlees	32.6R	1-3"		2		9	9	9	9	9	47	6	
GRANLEES DAM	33.0												
Cosumnes River Water District	33.OR	Gravity		250	178	371	930	342	282	207	q 2560	700	
GAGING STATION - COSUMNES RIVER AT MICHIGAN BAR	34.3												
Totals Average cubic feet per second Monthly use in per cent of seasonal			54 1 0.6	439 7 4.9	865 14 9.7	2452 41 27.4	2708 44 30.3	1257 20 14.1	819 14 9.2	336 3.8	8930 18	3491	266

DIVERSIONS AND ACREAGES IRRIGATED - COSUMNES RIVER** - 1955 (contd.)

TABLE 189

Diversions shown in this table below the McConnell Gaging Station are considered as Delta Uplands Diversions. Tidal effect ceases at about Mile 3.5.
 Additional acre-feet diverted: November 49, December 126.
 This acreage also received an undetermined amount of well water.
 Formerly listed as J. R. Guttridge.
 Installed prior to 1955. Not previoualy listed.
 Replaces a 12" unit.
 Formerly listed as W. Jared Sheldon.
 Replaces a 12" unit.
 Additional acre-feet diverted: November 29.

Plant moved from Mile 25.6R in 1955.
Formerly listed as F. M. and R. M. Grimshaw.
Replaces a 5" unit.
Combined acreage for Miles 26.5L and 27.3L. This acreage also received an undetermined amount of well water.
Replaces a 6" unit.
Additional acre-feet diverted: November 14.
This figure is the diversion entering the District under State Highway 16 and includes an undetermined amount of spill to the Goaumes River at Mile 29.9R, but doea not include the spill above Highway 16. Additional acre-feet diverted: November 167 and December 7.

			TABLE 190			
DIVERSIONS	AND	ACREAGES	TRATOATED -	MOKELUMNE	RIVER	 10

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	Mile and Bank	Bank and Monthly Diversions in Acre-Feet									Total Diversion		age gated
Water User	•	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct Acre-Peet	General	Rice
Egbert O. Morse(a)	4.7R	1-12"					60	86	9		155	95	
FRANKLIN-THORNTON HIGHWAY BRIDGE	4.9												
COSUMNES RIVER	5.0R											Į	
WESTERN FACIFIC RAILROAD BRIDGE	5.4												
Manuel Lopes	6.6R	1-12"	4	9	355	400	399	416	202	4	b 1789	187	115
Thornton Parms	6.9R	1-8"			14	1		10	6		30	13	
OALT-THORNTON HIGHWAY BRIDGE	7.0												
Thornton Parms	7.6R	2-12"		38	161	764	844	671	235	50	2763	730	176
Thornton Parme	8.1R	1-12"		20	11	27	28	- 48	14		148	60	
Albin G. Steffan	8.7R	1-12"	46	55	29	126	160	157	103	50	726	97	
S. and J. Frandy	10.4L	1-12"		34	7	20	27	24	31		143	52	
Albin G. Steffan	10.6R	1-16"	99	294	389	500	549	484	410	138	e 2863	486	
H. C. Braly	15.5R	1-3"	4	5	6	14	14	14	9	8	d 74	10	
A. Taddei	15.6R	1-6"			2	8	25	10	17		e 62	56	
R. J. Linde	16.8R	1-6"			21	19	40	15			95	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	1790	7630	11790	12890	17370	16380	12330	9500	r 89680	16511	
LeMoin Beckman	21.1L	1-5"					7				7	13	
LeMoin Beckman	21.3L	1-3"			1	PLANT I	REMOVED						
Lewis O. Bridge	21.85R	1-6"			16	29	27	29	16		117	35	
Sidney Nalsey	22.5R	1-5"		8	8	8	3	17	8		58	17	
J. B. Ballantine	22.7L	1-6"	. 4	8		23	31	33	10		109	43	
L. R. Sanguinetti	23.4L	1-6"			5	2	6	2			15	9	
Nora E. Mumbert	23.4R	1-4"				7	2	2			11	15	
M. M. Bender	23.5R	1-4**			D	OMESTIC	USE ON	LY I					
SOUTHERN FACIFIC RAILROAD BRIDGE	23.6												
Ben Bechthold	24.0L	1-4"	8	31	1	12	15	9	1	3	g 80	18	
Ben Bechthold(h)	24.05L	1-4"					1	1	1	1	14	3	
HIOHWAY 99 BRIDGE	24.2												
Litte, Mullen, and Perovich	24.45L	1-5"	1		2	9	4	2	1		18	7	
Lawrence Ranch	24.5L	1-6" 1-10"	25	79	53	30	30	28	14	7	266	137	
S. and M. Miller	24.8L	1-6"		4	7	6	8	12	8	3	48	14	
Kirschermann and Mettler	25.2R	j 1-10"	27	81	15	3	4	10			140	k 70	
M. and N. Palmer	25.5L	m 1-3" "1-4"				17	19	15	7		58	26	
CENTRAL CALIPORNIA TRACTION COMPANY BRIDGE	25.6	a											
Robert N. Lind(n)	26.3L	1-5"					1	5	1		7	p 19	
Richard Wagers(a)	26.5L	1-11		1	1	1	1	1	1	1	7	3	
Vaeco Mencarini	26.9R	1-5"					34	24	1	2	61	60	
Irene Green	27.5L	1~5"	19	22	36	13	24	15			129	q 108	
R. J. Linde	27.6L	1-8"	12	22		2	15	5			56	20	
A. E. Joens	27.9L	1-10"	8	69	111						188	110	

Diversions shown in this table below the Woodbridge Gaging Station are considered as Delta Uplanda Diversions. Left bank diversions into Reclamation District 348 (below Mile 9,8) and right bank diversions into McCormack-Williamoon Tract (below Mile 3,5) are not included since these screas are considered to be within the Delta Lowlands. Tidal effect coses at about Mile 10,5.
 Mile and Bank above New Hope Bridge.
 Now installation in 1955.
 Additional acre-feet diverted: Pebruary 2, November 5.
 Additional acre-feet diverted: November 38.
 Additional acre-feet diverted: Pebruary 13.

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g h 1

Additional acre-feet diverted: November 3,420. Additional acre-feet diverted: November 3. Temporary installation for 1955. Additional acre-feet diverted: November 1. Replaces a 6" unit. Of this acreage 56 also receives an undetermined amount of well water. The 3" unit was a temporary installation during 1955. Installed prior to 1955. Not previously listed. This acreage also received an undetermined amount of well water. This acreage also received an undetermined amount of weiter from controlled drainage. j k

m n P

Q

	Mile and Bank	Number and		Total Diversion	Acre								
Water User	*	Size of Pump	Mar.	Apr.	May	Diversio	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
												001101 41	
Frankie G. Dick(a)	28.5L	1-4"				3		د			Ŕ	10	
P. T. Nakagawa, et al.	28.6R	1-6"		4	14	26	37	35	13	2	131	115	
L. J. Peterson	28.9L	1-4"				NO DIV.	ERSION						
W. E. Mehlhaff	29.9R	1-8"	4	6	36	15	7	6	6	4	84	68	
E. Bender	30.0L	1-10"	3	13	13	22	26	26	16	22	b 141	c 30	
BRUELLA ROAD BRIDGE	30.0												
V. W. Hoffman and Sons	30.15R	1-5" d 1-8"	Ł	27	39	58	40	18	13		201	64	
N. H. Davis	30.35R	1-6"	ó	29	11	16	15	8	6	1	92	50	
J. J. Schmiedt	30.95L	1-7"				18	45	61	27		151	52	
Leon Kirschenmann and Leonard Preszler, et al.	31.0L	1-8"		150	140	46	37	26	3		402	155	
Rosa D. Soucie	31.7L	1-5"				6	42				48	50	
John Graffigna (e )	31.8R	1-7"			14	20	20	18	10	3	85	32	
Jones Ranch(f)	32.OL	1-6"						10			10	20	
L. J. Peterson	32.5L	1-5"		3	4	15	14	12	11	7	g 66	15	
Red Checker Land Company(h)	32.75R	1-5"		8		15	27	18	4		72	1 108	
C. M. Locke	33.25L	1-10"	27	28	9	71	69	89	22		315	J 130	
Acampo Vineyards	33.45R	1-8"		7	5	12	9	4	3	1	41	10	
Acampo Vineyards	33.6R	1-8"	14	22	15	43	52	39	13		198	110	
Niel C, Locke	33.7L	1-12"	39	90	88	183	239	227	102	20	988	k 323	
John McCarthy(m)	33.75L	1-10"		22	20	45	40	36	39		202	90	
T. and E. Schmierer	33.8R	1-4"	0	10	11	13	12	15	8	6	n 81	15	
Pritam Singh Dhaliwal (p )	34.05R	1-4"		13	10	8	5	3	1		40	q 17	
August Knoll(r)	34.1R	1-4"		44	34	18	7	7	4		114	53	
N. D. and D. D. Knoll	34.3R	1-4"		26	30	9	4	3			72	18	
COUNTY ROAD BRIDGE	34.35												
J. B. Ward	34.5R	1-4"	5	6	1	10	9	10	10	9	60	13	
H. C. Russell	34.55L	1-10"	24	62	69	120	125	110	83	60	s 653	70	
Kenneth H. Beckman	34.6R	1-5"	2	2	3	5	5				16	15	
H. C. Russell	34.75L	1-12"	5	43	24	96	135	80	66		449	t 225	
E. R. Thomas	35.15R	1	23	27	51	86	90	79	76	26	n 458	1 180	
E. M. Locke	35.2L	1-8"	3	32	27	43	53	56	35	23	272	73	
George Aberle (u )	35.4L	1-8"	8	72	62	90	108	81	77	42	540	127	
E. R. Thomas	35.5R	1-8"	25		14	35	52	70	28	3	227	50	
C. L. Allen	35.7L	v 1-10"	5	22	4	19	12	37	19	2	120	64	
John S. Coates(w)	35.9L	1-7"			4	19	9	29	15		76	66	
W. S. Montgomery	36.0L	1-12"			13	38	60	71	45	5	232	x 258	
E. R. Thomas	36.2R	1-10"	9	7	26	60	100	101	29	1	333	104	
0. Parker	36.45L			5	4	9	10	5	3		36	6	
W. L. Moffat	36.8R	1-8"			12	13	26	23	5		79	51	
J. R. Wiederrich	37.15L					65					65	41	
W. L. Moffat	37.45R	1				14	29	33	9		85	80	
W. L. Moffat	37.65L	1				2	54	44	40	ĩ	147	93	
Costa Estate	37.7R	1-12"		12	4	16	24	20	6		82	30	
C. and F. Sanguinetti(y)	38.0L	2-6"		28	34	35	39	52	19		207	68	
C and F. Sanguinetti(z)	38.1L	1-6"		32	10	67	92	112	32		345	62	

## TABLE 190

DIVERSIONS AND ACREAGES IRRIGATED - MOKELUMNE RIVER - 1955 (contd.)

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Mile and Bank above New Hope Bridge Previously listed as Frank G. Dick. Additional acre-feet diverted: November 9. Includes 10 acres of A. Knoll lands. Previously listed as a 6" unit. Installed prior to 1955. Not previously listed. New installation in 1955. Additional acre-feet diverted: November 2. Formerly listed as Langford Ranch (Herbert Buck). This acreage also received an undetermined amount of well water. This acreage was double cropped. Of this acreage, 259 was double cropped. Formerly listed as H. C. Russell. g h 1

J k m

n Additional acre-feet diverted: November 1. P Formerly listed as C. J. Selbel. q Includes 3 acres of Mettler Lands. P Formerly listed as A. and M. Knoll. s Additional acre-feet diverted: November 21. Of this acreage 55 also received an undetermined amount of well water. U Formerly listed as J. N. Eorroughs. W Replacea an 8" unit. W Formerly listed as P. Montgomery. X Of this acreage, 165 also received an undetermined amount of water from wells. P Formerly listed as M. C. and H. L. Thompson. z Formerly listed as J. N. Eorroughs.

DIVERSIONS AND ACREAGES IRRIGATED - MOKELUMNE RIVER - 1955 (contd.)

	Mile and Bank			M	onthly :	Diversio	one in	Acre-Fe	et		Total Diversion	Acre Irrig	
Water User	•	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
F. L. and V. A. Stebel	38.3L	1-10"				67	33	35	13	11	159	80	
Oertrude W. Chrisman	38.5L	1-12"	21			62	37	83	54		257	80	
Clemente Estate	39.0L	1-12"	89	227	318	412	467	468	340	306	a 2627	307	
McGee Ranch(b)	39.25L	2-5"	l	2	2	2	2	2	5	1	c 14	5	
R. S. Featherston	39. 3R	1-14**				NO DIV	ERSION						
HIGHWAY 88 BRIDGE	39+3												
GAGING STATION-MOKELUMNE RIVER NEAR CLEMENTS	39-35												
Totale Average cubic feet per eccond Monthly use in per cent of ecasonal			2371 39 2.1	9491 160 8.6	14214 231 12.8	16977 285 15.3	22072 359 19.9	20790 338 18.7	14742 248 13.3	10329 168 9.3	110986 228	22818	291

Mile and Bank above New Hope Bridge. Additional acre-feet diverted: November 125. . a

Installed prior to 1955. Not previously listed. Additional acre-feet diverted: November 1. b c

	Mile and Bank			Ma	onthly 1	Diversio	ona in a	Acre-Fe	et		Total Diversion	Acre Irrie	age gated
Water User	above Mouth	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
Inman Realty Company(a)	1.8L	1-12"		7	1	1	9	7	6	24	35	2	
Inman Realty Company(a)	1.9L	1-6"				NO DIV	ERSION						
E. D. Larson(a)	2.0L					NO DIVI	ERSION						
E. A. and E. R. Anderson(a)	2.2L	1-4"				2	2	2	2		8	5	
Weierahauser, Ghiorzo, and Piccardo(a)	2.5R	1-12"		59	15	67	84	93	41	22	381	79	
John Santa Maria(a)	2.9L	2-4"			i	1	4	3	3	1	b 12	c 12	
Ralph Panella(a)	2.9R	1-12"				43	14	9			66	15	
FACIPIC AVENUE BRIDGE	3.7												
Charles M. Weber	4.4R	4-6"				52	23	54	45		174	d 85	
SOUTHERN PACIFIC RAILROAD BRIDGE	5.3												
STOCKTON DIVERTING CANAL	5.4L												
Roy Moresco	5.7L	e l-14"			3	12	11	10			36	c 49	
Claude Moreaco	6.0L	1-5"			17	12	12	16			57	c 30	
U. S. 50 AND 99 HIOHWAY BRIDGE	6.8												
CENTRAL CALIFORNIA TRACTION COMPANY RAILROAD BRIDGE	7.9												
GADING STATION - CALAVERAS RIVER NEAR STOCKTON(1)	7.9												
A. V. Lagorio	8.5L	1-6"		]	15	16	13	7			51	c 23	
SOLARI ROAD BRIDGE	8.8	1											1
E. Leonardini	9.1R	1-4"		4	8	16	11	8			47	c 26	
Uyeda Brothere	9.9L	1-6"			8	30	35	9			82	e 62	
Rugan1 Brothers	9.9R	1-6"			9	25	14				48	c 54	
E. and R. Sanguinetti	10.2R	1-8"			7	12	20	10			49	c 25	
ALFINE ROAD BRIDGE	10.6												
John B. Oaribaldi	11.0L	1-5"			3	55	33	12			70	c 45	
John Arata	11.2L	1-5"				17	7				24	e 11	

TABLE 191 DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER** - 1955

Diversions shown in this table below the Stockton Orging Station are considered as Delts 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.
 Installed prior to 1955. Not previously listed.
 Additional acre-fect diverted: November 1.

c This screage also received an undetermined amount of well water.
 d Of this screage 25 also received an undetermined amount of water from controlled drainage and from Woodbridge Irrigation District.
 e Replaces 4 " wit.
 f Station moved from Mile 8.9 in 1955.

			TABI	E	191					
DIVERSIONS	AND	ACREAGES	IRRIGATED	_	CALAVERAS	RIVER	_	1955	(contd.)	)

	Mile and Bank	Number and		Ma	onthly	Diversi		Total Diversior		age			
Water User	above Mouth	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	MarOct. Acre-Feet	General	Rice
T		1-4"				16							
Irene Saccone	11.4L 11.4R						21	16			53	a 30	
Frank Solari PEZZI DAM		1-6"			19	33	45	7			104	a 115	
	11.8							6.					
Julia Pezzi and Sons	11.8R	Gravity			37	73	59	60			229	a 65	
Julia Pezzi and Sons	11.821	Gravity			10	9	10				29	ď	
Julia Pezzi and Sons'		Gravity			19	21	20				60	a,b 30	
A. Navone		Gravity				NO DIV.	1						
Julia Pezzi and Sons		Gravity			4	9	10	6			29	b	
A. Navone		Oravity			5	7	7	3			22	a 9	
Julia Pezzi and Sons	12.0L	Gravity			10	12	12	10			44	c	
Julia Pezzi and Sona		Oravity			13	25	26	13			77	a,c 30	
L. Freggiaro and Son		Gravity				NO DIV	1						
Julia Pezzi and Sons	12.11	Oravity			2	6	6	3			17	c	
Julia Pezzi and Sona	12.15L	Gravity			7	8	8	4			27	a 22	
MURPHY DAM	12.3												
A. Sciutti	12.3L	Gravity				4	1	4			9	a 20	
L. Freggiaro and Son	12.3R	Gravity			7	8	17	5			34	a 20	-
Tony Pastore	12.35L	Oravity				NO DIV	ERSION						
0. Freggiaro and Son	12.39R	Gravity				4	4				8	a 4	
G. Freggiaro and Son	12.40R	Gravity				NO DIV	ERSION						
G. Freggiaro and Son	12.41R	Gravity				12	12	4			28	a 15	
C. Bava and Son(d)	12.42R	Oravity		67	101	135	101	68			472	a 96	
Vic Freggiaro(e)	12.43R	Gravity					5				5	a,f 7	
Vic Freggiaro(e)	12.45R	Gravity					5	1			5	ſ	
Vic Freggiaro(e)	12.5R	Oravity			10	14	15	3			42	a 18	
Tony Pastore	12.5L	Oravity				2	5	5			12	g	
Tony Pastore	12.6L	Oravity				4	8	8			20	a,g 19	
Vic Freggiaro	12.6R	Gravity	i i			12	18	6			36	a 12	
STATE HIOHWAY 88 BRIDGE	12.7												
Tony Pastore	12.8L	Gravity				1	1	l			3	a 3	
Percy Pope	12.9R	Gravity					15				15	a 32	
Ed O. Brandstad	13.6R	1-6"			22	32	41	10			105	a 60	
William Thrush	13.9L	1-6"					84	14			98	a 97	
N. Tassano	14.OR	1-4"		23	22	19	33	28			125	a 30	
Henry Poppiano(e)	14.1L	1~5"		5	3	10	12	9			34	a 78	
J. Schiaffini	14.4R	1-4"		3	32	17	15	3			70	a 20	
Grattone and Bava	14.4R 14.5R	1-12"		S	96	198	15	3			558	a 20 a 191	
L. and R. DeVincenzi	14.9A	h 1-12			3	78	59	34			174	a 191 a 125	
Dave Dave V. Sanguinetti	14.0K	1-5"			3	27	59 38	34 20			92	1	
A. Girardi	15.4R	1-12"			14 14	<1 44		19					
J. H. Tone	15.4k	1-12		5	9	67	78	19				a,i 160	
JACK TONE ROAD BRIDGE		1-10		2	9	07	70	10			175	a 90	
	15.8	1.0			10	26	10	0				0.00	
John Plotz	16.0R	1-5"			10	36	19	8			73	a 38	
L. A. Cademartori	16.2L	1-5"			20	42	50	27			139	a 62	
Joe Phillipa	16.5L	1-6"				57	46				103	a 85	
C. Paoletti	16.6L	1-5"			3	15	8	6			32	a 33	
Reno Paoletti(j)	16.7L	1-4"					17	5			19	a 18	
Lawrence Zolezzi	16.8L	1~6"		16	23	36	30	19			124	a 64	
John Bogglano	17.3L	1-6"				NO DIVI	ERSION						

abcdef

This acreage also received an undetermined amount of well water.<br/>Combined acreage for Miles 12.6L, 11.85L, and 11.95L.<br/>Combined acreage for Miles 12.0L, 12.05L, and 12.1L.Combined acreage for Miles 12.0L, 12.05L, and 12.1L.Pormerly listed as H. B. Murphy and C. Bava and Son.<br/>Installed prior to 1955. Not previously listed.<br/>Combined acreages for Miles 12.43R and 12.45R.Combined acreage for Miles 12.43R and 12.45R.Combined acreage for Miles 12.5L and 12.6L<br/>Freviously listed as a 16" unit.<br/>One hundred and thirty three acres listed for Mile 15.4R<br/>also received an undetermined amount of water from Mile<br/>21.6R (6.1L).

TABLE 191 DIVERSIONS AND ACREAGES IRRIGATED - CALAVERAS RIVER - 1955 (contd.)

	Mile and Bank	Number and		М	onthly :	Diversi	one in	Acre-Fe	et		Total Diversion	Acr Irri	eage gated
Water User	above Mouth	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	Oeneral	Rice
TULLY ROAD BRIDGE	17.8	1-8"		5	102	98	117	20			260	. 200	
Steve Solari	18.4L	1-5"		2	103		117 22	39			362	a 300	
Joe Landoni	19.3R				2	22		15			61	a 38	
E. F. Messick	19.8R	1-5"				2	1	1			5	e 4	
B. E. Stagnaro(b)	19.8L	c 1-8"		7	3 10	12 16	18	5			45	a 18	
L. Viccarezza	20.1L	1-5"		0			23	10			d 65	a 30	
Bethel Quernsey	20.3L	1-10"			8	23	25	5			61	a,d 57	
G. Facini	20.4L	1-3"			2	4	7	3			16	a 10	
Frank Q. Rossi	20.6L	1-5"			6	6	7	6			25	a 20	
Ouernsey Ranch	20.9R	1-8"			26	61	29	36			152	a 95	
P. and M. Arboco(e)	21.0L	1-4"			9	57	20	15			f 101	a 38	
Frank Glannecchini	21.01L	1-5"			3		6	6			15	a,f 40	,
CLEMENTS ROAD BRIDGE AND DAM	21.1						. ( =						
E. W. Marciano and D. Canepa(g)		Oravity				139	167	69			375	a 190	
Albert Metzler		Gravity		15	19	42	60	18			151	a 60	
Mailand Ferrill	21.3L	1-5"				10	6	7			23	a 25	
D. Giordano	21.4L	1-4 "		1	3	5	9	2			20	a 8	
Domonick Figone	21.5L	1-5"				10	7	8			25	a 30	
NORTH SLOUGH	21.6R												
NORTH SLOUGH CONTROL GATES	*(0.0)												
F. Harrison	*(1.3L)	1-4"				4	6	2			12	a 13	
L. Robinson	*(1.3R)	1-3"		1	2	1	2	1			7	a 10	
S. Filippone	•(1.8L)	1-4"				11	11	5			27	h 14	
Webster Ranch	*(1.81L)	1-12"			32	37	58	31			158	1 212	
W. C. Fisher	*(4.1L)	c 1-9"				28	59	15			102	a 75	
TULLY ROAD BRIDGE	*(4.2)												Ì
George and Charles Hansen	*(4.3L)	1-4"			3						3	<b>a</b> 7	
J. H. Tone	*(6.OR)	1-10"	2			64	48	32	21		167	a 146	
A. Giradi	•(6.1L)	1-16"			7	84	89	19			j 199	a 60	
Lyone Brothera	*(6.6R)	1-10"				103	30	49	23		205	a 175	
A. O. Steltzner	*(7.3R)	1-8"			75	154	129	40			398	a 22	a 9.
J. W. Hannah, Jr.	*(7.8L)	k 1-6" 1-8"			1	127	113	25			266	<b>s</b> 80	
STATE HIGHWAY 88 BRIDGE	*(8.1)												]
A. G. Steltzner	*(8.1R)	1-6"				92	126	45			263		a 80
W. C. Leffler	•(11.5L)	1-10"			117	269	296	99			781	e 80	a 34
Webster Ranch	21.7R	1-8"		6	54	94	91	52			297	a 129	- 5
Ralph Houston	21.9R	1-8"		24	17	41	47	4			133	a 82	
Andrew Cuneo	22.0L	1-12"		71	161		93	27			352		
Hick Genetti	22.1L	1-4"		5	7	10	16	6			44		
Joe DeMartini	22.2R	1-8"			,	48	70	23			141	a 78	
Carroll and Anderson	22.3L	1~8"		10	26	36	60	34			166		
John Boggiano	22.4R	1-10"			4	25	44	10			83		
Caeser DeMartini	22.7R	1-12"		14	28	32	44	20			138		
Louis Taesano	22.9L	1-8"		17	6	20	21	7			71	8 75	
Frank DeBenedett1	22.9D 23.1L	1-7"		- 1	3	15	9	4			31	a 38	
Pred Podeste	23.1L 24.3L	1-12"			3	29	59	46			137	- m	
Fred Podesta	24.3L 24.4L	1-12"			5 10	29 90	181	136				n,m 450	
STATE HIGHWAY 8 BRIDGE	25.2	1.12			10	90	201	× 30			417	490	

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North Slough - Horth Slough diverts from Calsveras River et Mile 21.6R. Distance from Celsveres River and Bank is shown in (). This acreage size received an undetermined amount of well water. Formerly listed se W. E. Lynch. Replaces a 4" unit. Twenty two acres listed for Mile 20.3L also received an un-determined amount of water from Mile 20.1L. Pormerly listed as 0. Arboco. The acreage listed for Mile 21.0L also received an undetermined amount of water from Mile 21.0L e b

c d

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e h

Formerly listed as E. W. Marciano, D. Canepa, and C. DeMartini.
h Includes 0 acres which also received an undetermined amount of well water.
1 Includes 132 acres which also received an undetermined amount of well water.
j 133 scree listed for Kile 15.4R also received an undetermined amount of water from Mile 21.5R (6.1L).
k The C' unit was a temporary installation during 1955.
m Combined screege for Mile 24.3L and 24.4L.

TABLE 191 DIVERSIONS AND ACREACES IRRIGATED ~ CALAVERAS RIVER - 1955 (contd.)

	Mile and Bank	Number and	Monthly Diversions in Acre-Peet								Total Acrea Diversion Irriga		eage
Water User	above Mouth	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar. ~ Oct. Acre-Feet	General	Rice
									Sep		nore reco	General	NICE
CAGING STATION - CALAVERAS RIVER AT BELLOTA	25,25									i i			
CALAVERAS RIVER-MORMON SLOUGH CONTROL OATES	25.28												
John Armanion and Sons(a)	25.3R	1-10"		7	53	64	96	66			286	ъ 118	1
D. Creary	25.3L	1-3"			1	1	1				3	ъ 2	
MORMON SLOUGH	25.3L												
GAGING STATION - MORMON SLOUGH AT BELLOTA	<b>*(</b> 0.05)												
FARMINGTON - BELLOTA COUNTY ROAD BRIDGE	*(0.2)												
J. G. Watkins	<b>★</b> (0.3R)	1-8"				47	21				68	ъ 60	
Angelo Solari	*(0.5L)	1-8"	11	9	16	44	34	11		ĺ	125	ъ 64	
Fred Casella	*(0.9L)	1-6"			41	33	22	24			120	ъ 89	
John, Louis, and Mario Boggiano(c)	*(1,4R)	1-12"		6	64	165	164	60			459	b 302	
Sam Motoike	*(1.5L)	1-8"				13	24	2	`		39	ъ 30	
Raymond Motoike	*(1.7L)	1-6"				11	25	13			49	b 35	
E. Marugliano	*(2.OR)	1-7"			4	20	27	12			63	b 42	
C. and P. Sanguinetti	*(2.0L)	1-8"			1	49	73	27			150	ъ 85	
J. B. Ryburn(d)	*(2.5L)	1-10"			39	33	62	21			155	b 114	
PINE ROAD BRIDGE	*(2.7)												
Caeser DeMartini	#(3.4R)	1-10"		4	15	19	23	13			74	48	
John Avansino	*(3.5L)	1-5"				NO DIVI	ERSION						
Louis J. Lagorio	*(3.6R)	1-6"		3	17	41	52	18			131	ъ 160	
Ray Lagorio(e)	*(3.7R)	1-8"		22		21	24	13			80	ь 40	
P. W. Leonardini	*(4.1L)	1-7"			2	23	26	6			57	b 100	
Bertha E. Case	*(4.4L)	1-8"	36	8	18	8 -	12	8			90	b 60	
Nick Bonomo (d )	*(5.5L)	1-10"		26	12	42	38	5			123	b 79	
John A. Lagorio	*(5.8L)	1-7"		4	2	26	19	4			55	ъ 40	
C. and F. Sanguinetti	*(6.1L)	1-6"		3	8	57	19	24			111	ъ 80	
S. Piazza(f)	*(6.2R)	1-6"			3	10	21	11			45	ъ 33	
John Ratto(d)	*(6.7R)	1-5"					2	1			3	b 25	
Dondero Bros.(d)	*(6,9R)	1-8"			1	18	12	7			38	10 33	
A. and R. Lagorio	*(6.9L)	1-8"			20	49	53	13			135	b 94	
Prado Brothers(d)	*(7.2R)	1-6"		5	4	19	23	9			60	b 34	
A. and R. Lagorio	*(7.2L)	1-8"			9	20	47	20			96	b 102	
Mapes Brothers	*(7,5R)	g 1-6"	1	12	29	46	72	17			177	ъ 70	
D. Paoletti and Son	*(7.8R)	1-6"		7	20	10	20	2			59	ъ 40	
COPPEROPOLIS ROAD BRIDGE	*(7.8)												
A. Mignacco(d)	*(10.0L)	1-8"			9	37	46	16			108	ъ 64	
E. M. Walker (d)	*(10.OR)	1-5"					6	4			10	b 32	
M. Lavaggi(d)	*(10.3L)	1-8"			12	44	42	25			123	ъ 64	
Ray Duarte (e)	*(10.8R)	1-7"				21	82	13			116	b 110	
Ray Duarte (d)	*(11.0L)	1-8"				54	26	5			85	ъ 80	
Dick Wilma	*(11.7R)	1-5"				NO DIVE	RSION						
Prank C. Raffel	*(11.9L)	1-6"			23	45	17	18	10		113	b 85	
Joseph Caffese and Sons	*(12.8R)	1-7"				11	16	6			33	b 26	
END OF MORMON SLOUGH - BEOINNINO OF STOCKTON DIVERTING CANAL	*(13.0)												
	**(13.30)	1-6"			6	40	48	10			106	b 72/	
Homer D. Riddle	**(13.3R)	1-0			0	40	40	12			100	b 134	

Mormon Slough - Mormon Slough diverts from Calaveras River at Mile 25.3L, and rejoins the river through Stockton Diverting Canal. Distance from Calaveras River and Bank is shown in ().
 Stockton Diverting Canal - Stockton Diverting Canal diverta from Mormon Slough at Mile *(13.0) and rejoins the Calaveras River at Mile 5.4L. Distance from Calaveras River and Bank is shown in ().

**

a Formerly listed as Armanino Brothers.
b This acreage also received an undetermined amount of well water.
c Formerly listed as Linden Orchard.
d New installation in 1955.
e Installed prior to 1955. Not previoualy listed.
f Pormerly listed as P. Paoletti.
g Replaced a 3" unit in July 1955.

			TABLE	19	91				
DIVERSIONS /	AND	ACREAGES	IRRIGATED	-	CALAVERAS	RIVER	-	1955	(contd.)

	Mile and Bank	Number and		Ma	onthly	Diversi	ons in ,	lore-Fe	et		Total Diversion	Aere Irrig	eage sated
Water User	above Mouth	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
Nomer D. Riddle	••(13.7R)	1-6"			15	32	19	2			68	a 77	
STATE HIGHWAY 8 BRIDGE	··(14.9)												
Budiselich and Boggiano Brothers	••(15.7R)	2-12"			297	370	266	220			1153	<b>a 1</b> 86	a 50
U. S. 50 AND 99 HIGHWAY (PREEWAY) BRIDGE	••(16.0)												
GAGING STATION - STOCKTON DIVERTING CANAL AT STOCKTON	••(16.2)												
R. Moreaco	••(16.2R)	1-12"				PLANT :	REMOVED				i i		
U. S. 50 AND 99 HIGHWAY BRIDGE	••(17.2)												
Albert A. Anderson	25.5L	1-12"				147	129				276	0 115	
L. F. Grimsley	25.9L	1-16"			67	55	104				226	a 191	
Vignolo and Pallavicino	26.3R	1-10"	34	64	63	97	126	70			454	a 117	
Field Brothers	26.8L	1-6"		4	78	65	53	58			258	a 109	
McGurk Ranch	26.8R	1-8"		15	30	42	70	60			217	a 140	
Saverio Nogare	27.2R	1-12"		5	23	52	49	31			160	a 125	
Saverio Nogare	27.5L	1-10"				139	53	42			234	a 107	
E. E. Cady	28.3L	1-6"		3	12	33	27	33			108	b 76	
R. T. and A. V. Lagorio	28.9L	1-10"		6		7	21	24			58	a 50	
Garavano and Maffeo	29.0L	1-6"	15	9		24	38				86	a 50	
O. R. Shelley	29.2R	1-6"			1		6	10	5		18	a,c 78	
O. R. Shelley	29.3L	1-10"		5	17	45	60	74			e 198	a 84	
M. N. Yocum	29.4L	1-8"	2	4	9	44	56	ó			121	a 105	
Kenneth G. Watkins(d)	30.1R	1-10"		48	118	208	182	158			714	a 130	
BELLOTA RIVER ROAD BRIDGE	30.4												
L. and D. Hoag	30.6R	1-14"		3	33	58	83	108			285	a 156	
Lynn Barnett	30.7R	1-7"			7	17	5	12			41	a 26	
Lois E. Nunt	31.1R	1-6"				29	14	10			53	37	
S. M. Gregory	31.3R	1-8"		10	11	36	37	34	16	5	149	a,e 125	
S. M. Gregory	31.6R	1-6"				21	7	8			36	e	
Eva Hunt	32.5R	1-5"		2	4	9	10	9	9	7	r 50	15	
Eva Hunt	32.6L	1-6"			30	10	55	58	27		180	55	
GAGING STATION - CALAVERAS RIVER AT JENNY LIND	36.9												
Totals * Average cubic feet per second Monthly use in per cent of seasonal			101 2 0.5	654 11 3.4	2588 42 13.3	6023 101 31.1	6468 105 33-4	3305 54 17.0	205 3 1.1	39 1 0.2	19383 40	10184	258

Stockton Diverting Canal - Stockton Diverting Canal diverts from Mormon Slough at Mile *(13.0) and rejoins the Calaversa River and Bunk is shown in (). This acreage also received an undetermined amount of well water. Includes 38 acres which also received an undetermined amount of well water. Combined acreage for Mile 31.3R and 31.6R. Combined acreage for Miles 31.3R and 31.6R. Combined acreage for Mile 31.3R and 31.6R. . .

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TABLE 192
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DIVERSIONS AND ACREAGES IRRIGATED - DELTA UFLANDS - 1955

	Mile and Bank	Number and Size of		M	onthly (		Total Diversion	Irrig	age sated				
Water User		Pump	Mar.	Apr.	May	June	July	Aug.	Sept.		Mar Oct. Acre-Feet	General	Rice
OLD RIVER	R												
CONTRA COSTA CANAL	30.5L												
John A. Bettencourt a	b 30.5L	1 <b>-</b> 18"		201	63	160	224	174	138	40	1000	e 259	
Augustus Sarija	d 36.5L	2~6*	11	12	38	44	42	57	40	18	e 268	82	

Mileage along Old San Joaquin River from mouth of San Joaquin River c includea 27 acres of H. H. Mercer lands.
 4 milea below Antioch.
 a Installed prior to 1955. Not previoually listed.
 b Rock Slough Joins Old San Joaquin River at Mile 30.5L. Pumping plant a located on intake canal which Joins Indian Slough.
 a Installed prior to 1955. Not previoually listed.
 b Rock Slough Joins Old San Joaquin River at Mile 30.5L. Pumping plant a Additional acre-feet diverted: November 2.

Pumping

TABLE 192												
DIVERSIONS	AND ACREAGES	IRRIGATED - DE	TA UPLANDS	- 1955 (contd.)								

	Mile and Bank	Number and		м	onthly	Diversi	et		Total Diversion	Acre	eage		
Water User		Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
OLD RIVER (contd.)	*												
East Contra Costa Irrigation	a 36.5L	1-18"	226	5174	4773	7602	7314	6504	2953	6.00			
District	u ,,,,,	b 3-24" 2-30"	220	5114	4115	1002	1214	0504	2953	607	35153	c 15374	
STATE HIGHWAY 4 BRIDGE	38.8	2-50											
Byron-Bethany Irrigation District	d 40.9L	e 1-20"	1025	3785	4639	6744	6318	6299	4957	2465	f 36232	F 10385	
		1-24"		55			- 320			2.005	1000	g 10505	
CLIFTON COURT FERRY	43.8												
DELTA-MENDGTA CANAL	44.6L												
M. R. Furtado	h 44.6L	1-14"	117	159	188	258	254	272	205	67	1 1520	286	
Emil Hoefer	44.7L	j 1-5"			4	8	6	7			25	k 14	
William M. Ralph	45.3L	1-12"	73	109	195	202	213	205	165	137	1299	307	
George Covert	m 47.2L	1-16"	124	203	292	447	450	433	262	176	n 2387	p 385	
Lucio J. Coata	m 47.2L	1-14"	27	121	82	246	172	225	262	165	q 1300	p 250	
Johnnie L. Costa	r 47.65L	1-8"	8	16	43	55	48	48	36	22	a 276	80	
Weat Side Irrigation District	r 47.65L	7-15"	<b>2</b> 620	5028	4919	6228	6611	6299	4733	1562	38000	t 10497	
Vance Brown	48.4L	1-12"	28	47	53	119	87	89	59	62	544	155	
Naglee Burke Irrigation District	49.5L	1-4"		1	2	4	2	2	2	1	14	6	
Naglee Burke Irrigation District	50.4L	1-16" 1-18"	220	1105	1242	1956	1898	1989	1452	512	10374	u 2491	
Freemont Irrigation Association	50.9L	1-16"	57	121	207	359	389	320	171		v 1624	w 702	
Joe M. Freitas	51.0L	1-8"		15			30	20			65	<b>x</b> 36	
Attilio Casserini	51.2L	1-10"			20	13	13	12			58	36	
Excelsior Ranch #2	52.4L	1-10"		45	17	32	19	51	31	2	197	y 115	
A. L. Galli	53.0L	1-8"		23	24	42	28	39	40	27	223	57	
RECORDING GAGE	53.0												
MOUTH OF TOM PAINE SLOUGH	54.3L												
												_	
Totals Average cubic feet per second			4536 76	16165 263	16801 282	24519 399	24118 405	23045 387	15512 252	5863 99	130559 269	41517	
•								5-1					
TOM PAINE SLOUGH	*												
Independent Mutual Water Corp. & Co.	0.75	2-18"	96	276	373	485	402	924	405	23	z 2984	aa 1076	
Independent Mutual Water Corp. & Co.	1.5s	1-18"	6	48		109	50	190	42	5	450	227	
HOLLY SUGAR CORPORATION DREDGE CUT	2.15												
George J. Laka	**(0.5W)	1-10"					89				89	170	
Holly Sugar Corporation	**(1.2W)	1-12" 1-14"		388	507	472	535	530	441	419	ab 3292	ac 712	
RECORDING GADE	2.28	1-14											
Pescadera Reclamation District 2058 (#		1-12"	101	111	123	206	230	243	191	85	1290	243	
Pescadera Reclamation District 2058 (#	,	1-12"	969	1097	1390	2008	2160	2330	191	607		ad 2527	
		1-20" 1-24"	105	2001	- 550			0,00			20101		
Peacadero Reclamation District 2058 (#	5) 8.3s	1-12"	107	141	159	331	292	321	204	71	ae 1626	352	
Pescadera Reclamation District 2058 (#		1-12"	11	78	73	174	167	185	111	7	806	211	

Mileage along Old San Joaquin River from mouth of San Joaquin River 44 miles below Antioch.
Mileage along Tom Paine Slough from its mouth at Mile 54.3L on Old San Joaquin River.
Holly Sugar Corporation dredger cut joins Tom Paine Slough at Mile 2.1S. Distance along dredge cut and bank are shown in ().
Indian Slough Joins Old San Joaquin River at Mile 35.5L. Rumping plant is located on intake canal which Joins Indian Slough.
A 24" unit replaced one 10" unit.
This acreage also received 3,696 acre-feet of well water.
Italian Slough Joins the Old San Joaquin at Mile 40.9L. Pumping plant is located on intake canal which Joins Italian Slough.
The 20" unit was installed in 1955.
A dditional acre-feet diverted: November 364.
Of this acreage, 134 was double cropped.
Plant is located on intake canal which Joins the Old San Joaquin River at this mile.
Additional acre-feet diverted: December 3.
Pormerly listed as a 6" unit.
K Includes 4 acres of Hammer lands.
Plant is located on Mountain House Creek which joins the Old San Joaquin River at this mile.
Additional acre-feet diverted: November 12.

р

- q r

- This acreage also received an undetermined amount of water from Nountain House Creek. Additional acre-feet diverted: November 25. Flant is located on intake canal which joins the Old San Joaquin River at this mile. Additional acre-feet diverted: November 9. Of this acreage, 384 was double cropped. Includes 20 acrea of Tracy Clover District land. Additional acre-feet diverted: January 115 and February 1. Includes 8 acres of Tracy Clover District land. Additional acre-feet diverted: November 6. Of this acreage, 80 was double cropped. Additional acre-feet diverted: November 6. Of this acreage, 76 was double cropped. Additional acre-feet diverted: November 420 and December 203. Includes an undetermined amount of water used for industrial purposes.
- ac
- ad
- purposes. Of this acreage, 126 was double cropped. Of this acreage, 50 was double cropped. Additional acre-feet diverted: November 39.

# TABLE 192

## DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS - 1955 (contd.)

	Mile and Bank	Number and		м	nthly		Total Diversion	Acre Irrig	age ated				
Water User		Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
TOM PAINE SLOUGH (contd.)	·		1290	0150	2625	3785	3925	. 100	3320	1217	23024	5518	o
Totals Average cubic feet per second			22	2139 35	44	62	5925 66	* ¹²³ 79	54	20	4.	5510	
SAN JOAQUIN RIVER. (Stockton to Vernalis)	*												
STATE HIGHWAY 4 BRIDGE	45.3												
FRENCH CAMP SLOUGH	45.9R												
Carolyn Weston	46.1R	1-4"				NO DIV	ERSION						
Carolyn Weston	46.2R	1-6"				1	39	28	15	20	a 103	50	
Carolyn Weston	46.3R	1-12"	42	82	143	35	1 30	152	63	101	~48	215	
Ivy Ranney	46.65R	1-10"			11	68	10~	59	47	29	321	8c	
Frank West	46.85R	1-10"	73	17	81	85	129	7c	100	9	b 571	147	
F. Asano	47.2R	1-6"	2	3	4	9	27	9	6	2	a 62	c 22	
Wolfinger Brothers	47.3R	1-10"	1		20	38	17	31	14		121	50	
C. C. Long	47.55R	1-10"	12		17	17	25	51	121		243	d 183	
Waldo C. Haack	48.OR	1-14"	34	45	98	158	144	150	81		F10	e 370	
Chow L. Young	48.3R	1-42"		2	4	6	12	10	7	2	3 43	f 23	
Chow L. Young	48.5R	1-3"				PLANT .	REMOVED						
Joe Calcagno	48.5R	1-6"	43	20	31	32	68	65	27		286	90	
C. J. Pregno	48.55R	1-60		5		7	20	20	9		ol	8	
John Calcagno	48.66R	1-12"		14	27	85	65	82	64		33"	g le.	
Minna M. and Ema J. C. Ott	49.OR	1-12"	14	11	21	60	84	61	63	56	h 370	75	
Herbert Spangenberg and S. B. Chapman	49.3R	1-14"	34	50	56	113	136	111	106	26	632	1 225	
Herbert Spangenberg and S. B. Chapman	49.5R	1-12"	14	40	37	69	99	73	60		392	1	
A. A. Rodgers	50.1R	1-10"	ló	21	32	52	55	54	47	21	1 298	80	
BRANDT BRIDGE	50.2												
A. Hirata	50.4R	1-10"		27	21	4c	48	47	40	6	229	× 85	
K. R. and F. Watanabe	50.6R	1-6"	10	14	22	24	37	13	20	18	158	54	
D. Toscano	50.8R	1-6"	3	10	17	27	27	25	14	7	m 130	40	
Pastorino Brothers	50.9R	1-12"	52	43	62	76	73	119	102	27	n 554	150	
Pastorino Brothers	51.OR	1-6" 1-10"				NO DIV	ERSION						
Pelipe Esteban	51.2R	1-12"	42	3	7	37	60	66	53		268	p 99	
J. Burchell	q 51.6R	1-10"			78	73	68	90	60		369	90	
G. Santini	52.4R	1-5"			1	4	7	5	2		19	17	
D. J. Macedo	52.65R	1-10"			50	81	43	68	37		279	84	
J. Widmer	53.2R	r 1-16"	83	82	174	213	247	174	205	- 34	s 1212	394	
William Nishimura	53.4R	1-8"			18	23	22	20	11	1	95	45	
J. Widmer t	53.45R	1-12"		1	3	1	1	2	3	1	12	3	
Julio Lorenzo	53.5R	1-8"			17	16	23	38	20	4	a 118	50	
John Caparra	53.6R	1-4"	7	4	7	7	8	8	5	3	49	15	
John Barkett	53.7R	1-14"	26	83	119	110	135	131	94	57	u 755	v 293	
I. N. Robinaon, Jr.	53.8R	1-14"	105	142	292	414	431	278	378	101	w 21+1	x 388	
H. N. Hansen, H. C. Hansen, and	54.9R	1+10"		68	75	100	121	104	89	86	2 643	100	
William Oiger(y)													

Mileage along Tom Paine Slough from its mouth at Mile 54.3L on Old San J aquin River.
Left bank divergions into the M reing Ranch, Stewart Tract, and Roberts Island (below Mile 58.9L) are not included since that area is considered to be within 'he Delta Lowlands. Tidal effect ceases at about Mile 68.0.
Mileage along San Joaquin River from its mouth 4½ miles below Antioch. A Additional acce-feet diverted: November 1.
b additi nal acce-feet diverted: Rebruary 15.
c Of 'his a reage, 11 was double cropped.
d This a reage, 10 was double cropped.
f off his meage, 16 was double cropped.
f off this meage, 16 was double cropped.
f off this meage, 17 was double cropped.
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- Additional acre-feet diverted: November 16. & Includes 52 acres of Vierta lands. m Additional acre-feet diverted: November 2. n Additional acre-feet diverted: H venber 10. Of this acreage, 57 was double cropped. Q Flant moved from Mile 52.1R in 1955. Replaces a 12" unit. e Additional acre-feet diverted: January 33. t New installation in 1955. u Additional acre-feet diverted: November 10. The acreage listed for Mile 53.2R also received an undetermined amount f water from Mile 53.7R. v Of this screage, 1 4 was double cropped. Additional acre-feet diverted: November 17. * The arreage listed for Mile 53.8R also received an un-determined amount f water from Mile 54.7R. y Firmerly listed as R. E. Albertson. z Additional acre-feet diverted: November 30.

TABLE 192 DIVERSIONS AND ACREAGES IRRIGATED - DELTA UFLANDS - 1955 (contd.)

	Mile and Bank	Number and		Mc	onthly i	Diversio	et		Total Diversion	Acre			
Water User		Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct,	Mar Oct. Acre-Feet	General	Rice
SAN JOAQUIN RIVER* (contd.) (Stockton to Vernalis)													
JUNCTION WITH MIDDLE RIVER	56.2L												
Oakwood Stock Farm	57.OR	1-14"		192	21	193	453	363	26		1248	480	
James Tobin	57.15R	1-7"	17	4	43	43	44	32	34	8	225	a 38	
Frank Dewar, et al.	57.38R	1-4"	4	6	3	27	28	26	17		111	b 28	
Andrew B. Calori	57.45R	1-6"		12	6		12	3			33	30	
G. Gardella and Company	57.5R	1-4"	14	12	2	3	4	3	2		40	16	
A. Queirolo	57.65R	1-3"				PLANT F	REMOVED						
A. Queirolo	58.6R	1-3"		1		1	1	2	1		6	33	
R. Mauro	58.7R	1-4"	1	1	1	5	1	5	2	1	14	13	
SOUTHERN FACIFIC RAILROAD BRIDGE	58.8												
U. S. 50 HIOHWAY-MOSSDALE BRIDGE RECORDING GAGE	58.9												
Mertle Abersold	59.25R	1-6"	6	5	17	21	39	39	19	19	e 165	55	
M. H. Madruga	59.3R	1-15"	17	80	139	152	243	312	135	145	1223	254	
Eugene J. Rossi, et al.	59.5L	1-14"		63		224	73	141	86	10	597	d 170	
WESTERN PACIFIC RAILROAD BRIDGE	59.5											}	
M. H. Madruga	e 60.1R	1-6"		15	5	22	34	15	10	11	109	30	
James and Leslie Little	60.4L	1-4"			12	8	7	4	7		38	7	
A. F. Windeler	60.5L	f 1-16"		41	58	115	119	196	103	5	g 637	170	
E. Ficchi and Son h	60.5R	1-8"		20	23	24	52	25	25	23	192	68	
E. Ficchi and Son h	61.4R	1-12"	78	33	35	171	134	132	63	38	684	214	
A. F. Windeler	61.5L	1-8"				NO DIVI	ERSION						
Jack Williams	62.0R	1 1-8"		28	1	24	28	30			111	50	
Bernice Von Sosten	62.0L	1~12"		121	50	93	186	159	106	68	j 783	k 212	
PARADISE DAM (HEAD OF FARADISE CUT)-	62.2L	]						ĺ					
Faradise Mutual Water Company	m 62.2L	1-14" 1-20"	132	153	250	440	326	321	246	25	n 1893	821	
Dethlefsen Brothers	63.OL	2-20"					514	495	377		p 1386	1190	
State of California	63.3L	1-14"	110	156	107	194	344	347	184	42	q 1484	r 448	
H. H. Grimes	63.6R	1-12"	65	102	121	177	218	216	39	75	1013	210	
Dethlefsen Brothers	64.6L	1-10"		1	34	31	26	54	15	17	178	50	
Alexander Hildebrand s	t 66.0R	1-6"				15	7	1	5		25	8	
Manuel Brazil	66.7L	1-8"	39	68	111	140	121	89	111	21	700	u 140	
Banta Carbona Irrigation District	v 67.5L	2-10" 2-16" 2~20" 3-24" 1-30"	4143	9723	6973	10711	10817	9823	5805	2308	w 60303	x 16979	
Glen M. West	70.0L	1-6"		48	72	87	85	130	89	7	y 518	k 132	
Richard Burnley	70.5R	1-10"				NO DIV	ERSION						
San Joaquin River Water Users Company	71.OR	2-16"	284	287	742	881	1027	1242	681	187	z 5331	1280	
E. Filippini	71.OR	aa 1-6"			1	9	15	4	1		29	9	
Tony M. Cardoza ab	72.1R	1-10"						26	42	9	77	ac 50	
H. J. Mortensen and Barker	73.2R	1-8" 1-12"	238	252	216	353	255	205	42		ad 1561	ae 290	

- Mileage along San Joaquin River from its mouth 4½ miles below Antioch.
  a Of this acreage, 19 was double cropped.
  b Includes 15 acres of Thomson land.
  c Additional acre-feet diverted: November 3.
  d This acreage was double cropped.
  e Flant is located on Walthall Slough which joins the San Joaquin River at this mile.
  f Replaces a 12" unit.
  g Additional acre-feet diverted: November 24.
  h Previously listed as E. Pecchi and Son.
  i Replaces a 6" unit.
  j Additional acre-feet diverted: November 2.
  k Of this acreage, 6 was double cropped.
  m Flant is located on Paradise Cut which joins the San Joaquin River at this mile.
  n Additional acre-feet diverted: Pebruary 65.
  p Additional acre-feet diverted: Pebruary 37 and December 7.
  r Of this a reage, 30 was double cropped.

- u v
- w
- Installed prior to 1955. Not previously listed. Fumping plant is located on old channel which joins the San Josquin River at this mile. Includes 200 acres of Banta Irrigated Farms land. Flant is located on intake canal which joins the San Joaquin River at this mile. Additional acre-feet diverted: November 333. Includes 811 acres of Banta Irrigated Farms, 599 acres of Kasson District, and 1,053 acres of outside contracts. Of this acre-age, 602 was double cropped in the district. Additional acre-feet diverted: January 7, November 35, and December 3. х
- У

- y Additional acre-feet diverted: January 7, November 35, and December 3.
  z Additional acre-feet diverted: November 18.
  a Replaces a " unit.
  ab New installation in 1955.
  ac This acreage also received an undetermined amount of water from controlled drainage.
  ad Additional acre-feet diverted: Pebruary 8.
  ae Of this screage, 50 was double cropped and 35 slso received an undetermined amount of water from controlled drainage.

TABLE 192 DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS - 1955 (contd.)

	Mile and Bank	Number and		м	onthly I		Total Diversion	Acre Irrie					
Water User		Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
		<u> </u>											
SAN JOAQUIN RIVER (contd.) (Stockton to Vernalis)	•												
San Joaquin River Club	74.7L	1-6"	38	14	123	40	82	4	78	78	a 457	b 50	
E. A. Tassi	75.6R	1-16"	7	49	64	68	128	153	66	59	e 594	d 337	
Totals Average Cubic Feet Fer Second			5806 98	12274 200	10771 181	16350 266	17931 301	16817 283	10377 169	3767 63	94093 194	27629	
Average cubic reet rer Second		<u> </u>	30	200	101	200	104	205	109	~	2.54		
FRENCH CAMP SLOUGH	*					1							
Carolyn Weston	1.05L	1-12"	30	41	29	55	74	89	50	83	451	125	
Carolyn Weston	1.4L	1-7"	-		1	1	46	2	28		78	60	
Carolyn Weston	1.5L	1-6"	3	6		28	25	1	12		75	40	
FRENCH CAMP TURNPIKE	2,0												
Prank West	2.2L	1-10"	112	107	182	218	146	286	232	134	e 1417	£ 229	
Manuel E. Granados	2.3R	1-3"		3	2	5	4	1			15	3	
Prank West	3.0L	1-10"	17	14	40	33	64	44	42	25	279	30	
Tom Gomea	3.3L	1-5"				5		3	3		11	9	
Tom Gomes	3.4L	1-4"				3	1	ļ	2		6	3	
U. S. 50 HIGHWAY	3.45												
SOUTHERN FACIFIC RAILROAD BRIDGE	3.6						1						
Milton G. Boege	3.8L	1-8"		1							1	6	
Robert L. Bordenave	3.8R	1-12"	1						10	33	43	50	
WESTERN PACIFIC RAILROAD BRIDGE	4.1												
Clark Anderson	4.2R	1-14"		179	345	149		56	88		817	g 105	g 140
GAGING STATION - FRENCH CAMP	5.4	1											
SLOUGH NEAR FRENCH CAMP													
Totals			162	351	500	497	360	482	467	275	3193	660	140
Average cubic feet per second			3	351 6	599 10	8	6	8	467 8	275 5	7		
CALAVERAS RIVER h			<u> </u>		<b></b>	<b> </b>	<b> </b>						
Totals Average cubic feet per aecond			0	66 1	36 1	190 3	159 3	194 3	97 2	27 0	769 2	277	C
MOKELUMNE RIVER 1			-		1								
Totals			153	455 8	995	1878	2146	1935	1036	250	8848	1899	291
Average cupic feet per second		1	2	8	16	32	35	31	17	4	18		
COSUMNES RIVER J			-			0.00	6.01		000				
Totals Average cubic feet per second			0	78 1	576	849 14	674 11	700	389 7	00	3266	1335	266
				-	1	1	1						1
SACRAMENTO RIVER BELOW SACRAMENTO	**									1			
RIO VISTA BRIDGE	12.9												
John Lira	13.OR	1-6"	2	2	7	65	78	17	33	4	k 208	52	
C. A. Beach	45.2L	1-12"	1		19	53	50	52		10	184	116	
W. and B. Correa	45.5L	1-10"		7	25	57	67	16			172	80	
Hack and Forsythe	45.751	1-6"				NO DIV	ERSION						
A. J. Sweeney	45.951	, 1-10"			39	125	151	47	22		384	189	
FREEPORT BRIDOE	46.0												
Preeport Development Company	46.251	1-8"		11	32	152	99	90			384	285	

* *

Mileage along San Josquin River from its mouth ⁴/₂ miles below Antioch.
Mileage above Chain Island.
Mileage above Chain Island.
Additional scree-feet diverted: January 7, February 50, and November 81.
Recreational lskes. These lakes also received an undetermined amount of water from controlled drainage.
Additional scree-feet diverted: January 1 and November 41.
Of this screage, 222 also received an undetermined amount of water from controlled drainage.
Additional acreefeet diverted: November 11.

f Of this acreage, 30 was double cropped.
g This screage also received 2,616 sere-feet of water from controlled drainage.
h Below gaging station - Calaverse River near Stockton, Mile 7.9. Individual diversions are shown in Table No.191.
i Below gaging station - Kokelume River at Woodbridge, Mile 19.2. Individual diversions are shown in Table No. 190.
j Below gaging station - Cosumes River at McConnell, Mile 10.7. Individual diversions are shown in Table No. 189.
k Additional acre-feet diverted: November 3.

	Mile and Bank	Number and		M	onthly		Total Diversion	Acre	age				
Water User		Size of Pump	Mar,	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
	mo (												
SACRAMENTO RIVER BELOW SACRAMEN		1.10	h		0.00			1.5					
L. J. Dee	46.8L	1-10"	4	21 46	35	80	59	45	23		267	108	
L. O. Klotz	47.3L	1-8" 1-8"		46	33	68	57	82	48	34	368	45	
E. A. Franklin	47.5L 47.7L	1-6"				19 22	26 18	44 18	8		97	50	
George Coleman M. A. Richardson		1-6"				10	10				64	62	
"M" STREET BRIDGE	53.7L 59.0	1-0				10	2	5	1		21	25	
M SIREE BRIDGE	59.0												
Totals Average cubic feet per second			6 0	87 1	190 3	651 11	610 10	416 7	141 2	48 1	2149 4	1012	0
YOLO BY-PASS (WEST CUT)	**												
H. L. Sorensen(a)	4.2R (1.9)	1-14"							118	258	376	b 200	
Mounds Farms	4.2R (2.0)	2-12"		183	193	248	320	273	220	139	c 1576	a 700	
H. L. Sorensen	4.2R (2.0)	1-16"		103	103	171	163	143	125	107	£ 915	e 320	
Charles L. Maben	5.7R (0.9)	1-18"								482	g 482	h 190	
R. S. W. Ranch	5.7R (1.5)	1-16"	121	161	231	349	434	472	425	43	1 2236	400	
Fridolf Anderson	6.75R (0.6)	1-16"				62	110	60			232	240	
James Iriart	7.85R	1-16"			431	399	592	429	321	224	j 2396	k 585	
Swanston Land Company	7.87R (1.7)	1~16"				186	160	311	242		899	620	
Vaughn and Burlingham	7.87R (2.1)	1-14"	41	28	111	133	159	159	101	60	792	230	
Vaughn and Burlingham	7.87R (2.5)	1-14"	73	36	160	209	211	210	143	89	1131	315	
Vaughn and Burlingham	7.87R (2.7)	1-14" 1-16"		22	100	37	131	126	59	65	540	200	
Swanston Land Company	8.7R	1-16"							232	48	m 280	h 90	
J. H. Glide Estate	9.3R	1-14"			1	1				56	n 56	h 140	
T. S. Glide(a)	10.9R (0.4)	1-20"					280	643	180	45	1148	d 1150	
T. S. Glide	11.OR	1-10"					88				88	p 180	
T. S. Glide	12.4R	1-14"				28	262				290	400	
T. S. Glide	13.15R	1-20"					282	66			p 348	400	
SACRAMENTO NORTHERN RAILROAD	13.2												
T. S. Olide	14.8R	2-16"				168	523	220			911	900	
T. S. Olide(a)	17.1R (1.8)	3-20"		1587	2307	3483	3288	3282	1100	241	q 15288	1732	1710
T. S. Glide	18,68	1-36"		624	8	254	258	89			r 1233	750	
U. S. 40 AND 99W CAUSEWAY	20.1												
Totals Average cubic feet per second			235 4	2744 46	3644 59	5727 96	7261 118	6483 105	3266 55	1857 30	31217 64	9742	1710
MISCELLANEOUS	Ŧ												
Disappointment Slough													
H. Moffat Co. and Eldon Land Co.	2/6-6P	1-18"	117	187	319	391	607	608	271	52	2552	400	
H. Moffat Co. and Eldon Land Co.	2/6-6J	1-14"	56	273	345	455	524	528	255	54	2490	375	
White Slough	- /-					0.01							
J. G. and S. W. Imeson	3/5-250	1-16"	18	164	162	283	274	317	268	163	a 1649	220	
J. G. and S. W. Imeson	3/5-260	1-12"	70	145	116	285	281	247	161	52	t 1357	250	

TABLE 192 DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS - 1955 (contd.)

Mileage above Chain Island
 Mileage above Prospect Island,
 Pigures represent North Townships, East Ranges, and Sections. Letters represent North Townships, East Ranges, and Sections. Letters represent North Townships, East Ranges, and Sections.
 The acreage listed for 4.2R (1.9) also received an undeter-mined amount of water from Mounds Farms 4.2R (2.0).
 The acreage listed for 4.2R (1.9) also received an undeter-mined amount of water from Mounds Farms 4.2R (2.0).
 The acreage listed for 4.2R (1.9) also received an undeter-mined amount of water from Mounds Farms 4.2R (2.0).
 Additional acre-feet diverted: November 51 and December 51.
 Includes 100 acres of duck club land.
 Additional acre-feet diverted: November 23 and December 14.
 Of this acreage, 30 was reused for duck ponds.
 Additional acre-feet diverted: November 2,381 and December 262.

h All duck ponds.
 Additional acre-feet diverted: November 105,
 J Additional acre-feet diverted: November 242 and December 61

J Additional acre-feet diverted: November 242 and December 51.
k Includea 40 acres of duck ponda.
m Additional acre-feet diverted: November 23 and December 20.
n Additional acre-feet diverted: November 21.
p The acreage listed for Mile 11.0R also received an undetermined amount of water from Mile 13.15R.
q Additional acre-feet diverted: November 278 and December 167.
r Additional acre-feet diverted: November 116 and December 58.
o additional acre-feet diverted: November 116 and December 58.

a Additional acre-feet diverted: November 70 and December 9. t Additional acre-feet diverted: November 48.

TABLE 192 DIVERSIONS AND ACREAGES IRRIGATED - DELTA UFLANDS - 1955 (contd.)													
	Mile and Bank	Number and Size of		M	onthly	Diversi	ons in .	Acre-Fe	et		Total Diversion	Acre Irrie	
Water User		Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
MISCELLANEOUS (contd.)													
Nog Slough													
Robinson Farms	4/5 <b>-</b> 28B	Grevity				20	26	28	20	24	118	8	
Robinson Farms	4/5-28B	Gravity		85		67	92	71	57	105	b 477	a 182	
Thompson-Folger Company	4/5-28 <b>0</b>	l-12" Gravity		219	235	372	350	404	246	413	c 2239	d 540	
Peeven Glouph							f						

		Gravity						1					
Beaver Slough							1						
C. B. Orvia	4/5-150	1-15"	50	51	137	233	333	287	186	138	e 1415	201	
C. B. Orvis	4/5-15D	1-18"	91	72	213	367	401	384	157	243	f 1928	447	
Canal Ranch	4/5-16B	1-8"		18	103	138	173	160	104	56	752	142	
Canal Ranch	4/5-16D	1-8"		57	53	137	110	109	52	46	564	117	
Burton Slough													
Egbert O. Morse	5/5-28D	1-6"					7	9	4		20	20	
Barnes Ranch	5/5-24D	1-4**					4	22			26	41	
Egbert O. M.rse	5/5-20K	1-8"					33	20			53	~2	
Egbert O. Morse(g)	5/5-16N	1-16"		134	587	502	649	633	225		2730	50	273
Egbert O. Morse(g)	5/5-15M	1~10" 1-12" 1-14"			462	812	862	580	448	6	3170		~80
East Dredger Cut - Snodgrass Slough													
Alfred Kuhn	6/5-31R	1-12"				21	7	9	6		43	40	
Alfred Kuhn	6/5-31N	1-14"				NO DIV	ERSION						
Alfred Kuhn	6/4-360	1-16"	22	93	48	276	409	321	185		1354	348	
Duck Slough Extension													
Isabella Wineman	6/2-26B	1-14"	31	77	144	245	207	208	171	50	h 1133	255	
Isabella Wineman	6/2-26D	1-12"	27	53	115	154	147	129	127	20	1 772	205	
Isabella Wineman	6/2-26J	1-14"	66	91	200	373	402	313	181	188	j 1814	330	
Hass Slough													
Raahauge and Joseph	6/2 <b>-</b> 33H	1-12"		63	54	45	73		57	22	k 314	m 40	
Reclamation District 2068	6/2-340	2-30" 1-36"	1569	5325	6750	10443	10681	10080	8179	5056	n 58083	p 9197	
Francis F. Gunning	6/2-34F	1-16"	62	126	193	219	285	262	204	163	<b>q</b> 1514	3~0	
Cache Slough													
Ervin E. Vasaar	5/2-4B	1-14"	3	128	142	197	166	182	108	103	r 1029	260	
Jack Parker	5/2-4K	1-12"		44	59	65	49	51	41	31	a 340	100	
Ervin «E. Vassar	5/2-4K	1-18"	3	129	194	296	502	436	388	160	t 2108	u 725	
Calhoun Cut			ł	2									
Namilton and Nymand	5/1-25D	1-10"	-		8	8	16	15	8	8	03	22	
Matilda Hall	5/2-19J	1-10"		31	53	76	72	60	29	42	363	90	
Unaegregated													
Benjamin Holt	2/6-20B	1-12"				NO DIV	ERSION						
Sam Hermandee	2/6-17D	1-3"				NO DIV	ERSION						
Quodi Segarina	2/6-170	1-12"				21	10	21			52	v 38	
E. V. Lang	3/5-26R	Gravity		21	28	39	42	42	28	35	235	m ~0	
George Ende	3/5-23L	1-10"		26	29	55	54	50	33	33	280	120	
Oeorge Emde(g)	3/5-14L	1-14"				143	171	149	113	69	₩ 045	40	4C

Figures represent North Townships, East Ranges, and Sections. Letters represent the 1-1 corner. See text. Combined acreage for two plants at 4/5-288 This screage also received an undetermined amount of water from the Woodbridge Irrigation District, and was reused for duck club land. Additional scre-feet diverted: November 25 and December 190. Additional acre-feet diverted: November 33. New instellation in 1955. Additional acre-feet diverted: November 30. Additional acre-feet diverted: November 25. Additional acre-feet diverted: November 22 and December 11. This acreage was reused for duck ponds. .

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 Additional acre-feet diverted: N vember 2,107 and December 31.
 p Includes 1+4 acres of duck ponds. An additional 1,95-acres inside and 1,491 acres outside the district ere irrigated by controlled drainage water.
 q Additional acre-feet diverted: N vember 41 and December 21. 21. r Additional acre-feet diverted: November 30. 6 Additional acre-feet diverted: November 60 t Additional acre-feet diverted: November 65 and December

t Additional acreage, 40 was reused for duck ponds.
 u Of this acreage also received an undetermined amount of well water.
 w Additional acre-feet divertad; December 43.

TABLE 192
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DIVERSIONS AND ACREAGES IRRIGATED - DELTA UPLANDS - 1955 (contd.)

	Mile and Bank	Number and Size of	Monthly Diversions in Acre-Feet								Total Diversion	Acre Irrig	
Water User		Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
MISCELLANEOUS (contd.)													
Cotta and Sousa(a)	4/5-340	1-16"					52	272	95	43	b 462	c 330	
W. C. Hamel	8/3-30B	1-10"				15					15	d 33	
H. L. Sorensen	6/3-20J	1-12"						183	212	71	466	e 220	
H. L. Sorensen	6/3-19E	1-14"		152	280	173	276	280	112	331	f,g 1604	240	
H. L. Sorensen	6/3-30D	1-140	40	138	258	419	361	425	122	384	h 2147	g,i 801	
H. L. Sorensen	6/3-30L	1-16"	2	161	86	302	289	240	188	231	j 1499	k 320	
Reclamation District 2068	6/2-25P	1-12"	69	56	167	195	230	187	139	86	m,n 1129	160	
Sub-Irrigated lands(p)			94	252	315	410	441	441	315	126	2394	630	
MISCELLANEOUS DELTA UFLANDS Totals Average cubic feet per second			2390 39	8371 141	11855 193	18252 307	19668 320	18763 305	13495 227	8604 140	101398 209	18017	793
DELTA UPLANDS Totals Average cubic feet per second Monthly use in per cent of seasonal			14578 237 3.7	42730 718 10.7	48092 782 12.1	72698 1222 18.2	76852 1250 19.3	73558 1196 18.4	48100 808 12.1	21908 356 5.5	398516 820	107606	3200

Figures represent North Townships, East Ranges, and Sections. Letters represent the  $\frac{1}{2}-\frac{1}{4}$  corner. See text. New installation in 1955. Additional acre-feet diverted: November 34. This acreage also received an undetermined amount of water from the Woodbridge Irrigation District. This acreage also received 30 acre-feet of well water. Includes 100 acres of duck ponds. Additional acre-feet diverted: November 59 and December 29. Five hundred and thirty acres listed under 6/3-30D received an undetermined amount of water from 6/3-19E.

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h Additional acre-feet diverted: November 65.
i Includes 230 acres of duck ponds.
j Additional acre-feet diverted: November 51 and December

25. Includes 20 acres of duck ponds. Includes an undetermined amount of water from controlled k m

Includes an underefinited another of another drainage.
 n Additional acre-feet diverted: November 45.
 p Estimated consumptive use on lands in Delta Uplands considered as sub-irrigated from tidal channels during 1955 without a specific point of diversion.

#### TABLE 193

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER - 1955 (Vernalia to Fremont Ford Bridge)

	Mile and Bank		and Monthly Diversions in Acre-Peet									Acre Irrig	
Water User		Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
DURHAM FERRY BRIDGE - GAGING STATION - SAN JOAQUIN RIVER NEAR VERNALIS	76.7												
A. J. Chisholm	78.9R	1-10"	82	171	214	212	310	290	167		1446	366	
Cruze, Gonsalves, and Moresco(a)	79.4R	1-20"	47	222	112	161	215	204	136		1097	b 198	
STANISLAUS RIVER	79.7R												
W. C. Blewett Estate	80.7L	1-12"	47	224	141	132	190	266	133		1133	191	
W. C. Blewett Estate	81.8L	2-12" 1-14"	238	406	405	556	612	638	332	109	c 3296	894	
MAZE ROAD BRIDGE - RECORDING GAGE	81.85												
Blewett Mutual Water Company	81.95L	1-10" 2-12"	214	709	725	822	1122	979	280	184	₫ 5035	1070	
El Solyo Water Company	82.OL	1-10" 3-18"	1817	2636	1822	2988	3016	2761	1627	1135	e 17802	f,g 3553	
GAGING STATION - SAN JOAQUIN RIVER AT HETCH HETCHY WATER SUPPLY CROSSING-	82.65												
El Solyo Ranch(h)	83.3L	1-12"				58	98	126	155		<b>s</b> 437		
Faith Ranch	84.4R	1-20"	49	409	390	551	362	363	238	245	1 2607	400	
TUOLUMNE RIVER	91.0R										1		
RECORDING GAGE	91.8L												
WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL	91.8L												

Mileage along San Joaquin River from its mouth  $4\frac{1}{2}$  miles below . Antioch. Formerly listed as Gruze, Kirby, and Moretco. Includes 60 acres of Chisholm lands. Additional acre-feet diverted: November 9. Additional acre-feet diverted: November 107. Includes an undetermined amount of water returned to river by spill. Additional acre-feet diverted: November 406.

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f Includes 60 acres which also received an undetermined amount of well water. This acreage also received an undetermined amount of controlled drainage water. g One hundred and forty two acres listed for Mile 82.0L also received 437 acre-feet of water from Mile 83.3L. h New installation in 1955. 1 Additional acre-feet diverted: December 29.

	Mile and Bank	Number and		M	nthly 1	Diversio	ons in a	Acre-Pee	et .		Total Diversion	Acre Irrig	
Water User	*	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	0eneral	Rice
West Stanialaus Irrigation District	91.8L	1-12" 1-24" 6-26"	7154	10159	10509	11739	14640	9695	5788	1161	a 70845	b 22934	
Fred Lara #1	••(0.6S)	1-14"	164	63	67	216	190	137			837	175	
Frank Sarmento #1	**(0.7N)	2-16"	150	110	166	32	156	131	91		836	c 912	
Prank Sarmento #2	**(1.1N)	1-14" 1-16"	239	352	669	444	480	397	119	157	2857	c	
Fred Lara #2	**(2.2S)	1-16"	25	12	12	64	45	30	24	9	q 551	90	
Frank Sarmento #3	••(2.3N)	2-16"		13	118	70	119	255	119		694	145	
J. V. Steenstrup Eatate(e)	93.1R	2-12"	229	68	313	665	656	655	246		2832	149	r 167
Walter W. Crawford(e)	g 93.2L	1-6"		11	8	6	16	19	4	S	h 66	32	
Ocorge Covert	1 94.1L	1-3" 1-6"	18	53	51	56	95	67	58	76	J 474	95	
Rancho Dos Rios	94.7N	1-12"	149	183	231	305	460	393	281	255	k 2257	m 406	
L. S. Crane(n)	95.5R	1-10"		43	8	27	45	47	52	38	p 260	q 113	
Bostick Brothers	95.8R	1-10"	18	68	41	49	14	65	47	10	309	r 86	
W. F. Cook	96.0L	1-18"	250	174	391	454	391	546	340	183	s 2729	500	
GAOINO STATION - SAN JOAQUIN RIVER AT GRAYSON (LAIRD SLOUCH BRIDGE)	96.05			1									
E. S. Brush	98.5r	1-7"	10	16	36	34	32	38	26	19	t 211	50	
Rancho El Pescadera	98.9L	1-18"	113	554	238	335	557	309	86	39	u 2231	v 951	
John C. Toata(e)	103.0L	1-14"	12	22	14	31	35	39	15	ł	165	64	
PATTERSON BRIDGE - RECORDING GAGE	104.4												
Patterson Water Company	104.4L	1-14" 2-18" 3-20" 1-36"	4408	5193	6122	8672	8436	9669	6178	927	w,x 49605	у 13657	
Chase Brothers	104.5R	1-10"	129	155	192	331	287	274	30 3	132	1803	282	
M. L. Simmons	104.52L	1-5"		7	5	10	S	9	5	3	41	9	
Harry Black	104.7L	1-3"				NO D	IVERSIO	I N					
Chase Brothers	106.5R	1~10" 1-12"	190	234	329	428	469	349	260	80	2339	500	1
Tony Spinelli	109.1R	1-12"	11	13	28	37	43	52	29	29	z 242	79	ļ
Twin Oaka Irrigation Company	109.8L	1-12" 2-16" 1-18"	338	1553	1682	2031	1972	1963	802	125	<b>a</b> a 10466	1181	× 555
T. J. Henderson	110.8r	1-8"			16	39	127	122	92	56	ab 452	ac 160	
J. Holtzman	112.5L	ad 1-3"		7	3	9	11	1	12		ae 43	20	
L. A. Thomson and J. H. Barbour af	112.55R	1-16"	119	130	182	278	235	215	195	29	1383	ag 351	
Frank C. Moaler	113.4R	1-10"	142	114	78	146	147	140	117	105	ah 986	ai 175	
CROWS LANDINO BRIDOE - RECORDINO GAGE	113.5					,							
A. J. Silveria	113.85R	1-6ª		3		7	3	7	4		24	6	
A. J. Silveria	114.35R	1-7"		6	6	12	12	9	6	1	52	20	

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Mileage along San Joaquin River from its mouth 44 miles below Antioch. West Stanislaue Irrigation District Intake Canal - The Intake Canal Joins the San Joaquin River at Mile 91.8L. Distance from the San Joaquin River and the bank is shown in (). Additional acre-feet diverted: November 309. This acreage also received 11,293 acre-feet of Delta-Mendots Canal water as follows: April 2,497, June 2,447, July 3,719, and August 2,650 acre-feet. Of this acreage 705 was double cropped. Includes 2,266 acres irrigated outside of district. Fortions of this acreage received an undstormined amount of well witer. Combined acreage for Miles **(0.7N) and **(1.1N). Of this acreage 39 was double cropped. Additional acre-feet diverted: November 8. Installed in 1954. Not previously listed. This acreage also received an undetermined amount of controlled drainage water. This is a portable unit which diverts water at Miles 93.2L and 93.4L. Additional acre-feet diverted: November 5. Pumping plant is located on old channel which joins the San Joaquin River at this mile. Additional acre-feet diverted: November 33. Additional acre-feet diverted: Pebruary 3, November 1, and Decem-ber 1. Of this acreage, 70 was double cropped and 60 received an undeter-

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- 8 h 1

- Additional acreage, 70 was double cropped and 60 received an undeter-mined amount of controlled drainage water. Formerly listed as C. H. Geer. Additional acresfeet diverted: November 6. Of this acreage, 44 was double cropped. This acreage also received an undetermined amount of Turlock Irrigation District water. m
- n
- P Q

- This acreage was double cropped.
   Additional acre-feet diverted: Pebruary 54, November 8, and December 2.
   t Additional acre-feet diverted: November 4.
   u Additional acre-feet diverted: Pebruary 4.
   v Of this acreage, 14 was double cropped and 890 received an undetermined amount of well water.
   w Additional acre-feet diverted: November 10.
   x Seventy five acres of rice listed for Mile 109.8L also received an undetermined amount of water from Mile 104.4L.
- 104.4L. Of this acreage 2,304 was double cropped. This acreage also received 1,942 acre-feet of Delta-Mendota Ganal water as follows: April 255, May 445, June 459, July 206, August 404, September 170, and October 3. Additional acre-feet diverted: November 1. Additional acre-feet diverted: November 9. Additional acre-feet У
- 88 ab
- ac
- ad
- ac
- actives an understand of the second se

	Mile and Bank			M	onthly :	Diversi	ona in .	Acre-Fe	et		Total Diversion	Acre Irrig	
Water User	*	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
Hazel P. Crow(a)	114.6L	1-2"					5	9	8	2	24	9	
Frank C. Mosier	114.63R	1-8"	52	36	48	67	74	63	67	41	448	90	
Manuel A. Serpa	114.75R	2-10"	122	43	163	81	219	144	108	43	b 923	c 180	
Hazel P. Crow	115.0L	1-10"		21	42	56	34	40	33	5	231	25	
Roy F. Crow	115.8L	1-10"	117	42	47	72	170	148	88	36	d 720	e 149	
L. B. Crow	116.05L	1-14"	59	58	134	150	167	166	141	49	f 924	g 210	
John W. Greer	116.5R	1-12"	265	190	200	234	251	265	69	16	h 1490	g 280	
D. L. McCoy	1 116,95R	1-10" 1-12"	14	33	39	37	54	65	31	10	J 283	88	
MERCED RIVER SLOUGH	122,28												
GAGING STATION - SAN JOAQUIN RIVER NEAR NEWMAN	123.7												
MERCED RIVER	123.75R												
Emil Giovannoni	123.9L	1-4"				PLANT	REMOVED						
VERNALIS TO FREMONT FORD BRIDGE Totala Average cubic feet per second Monthly use in per cent of seasonal			16991 276 8,8	24516 412 12.7	25997 423 13.5	32704 550 16,9	36571 595 18.9	32157 523 16.7	18912 318 9.8	5308 86 2.7	193156 397	50845	722

* Mileage slong San Joaquin River from its mouth 42 miles below

a b c d e

Mileage along San Joaquin River from its mouth 4½ milea below Antioch. New installation in 1955. Additional acre-feet diverted: February 42 and November 9. Of this acreage, 70 was double cropped. Additional acre-feet diverted: November 45. Of this acreage, 40 was double cropped and 26 received an un-determined amount of Central California Irrigation District water.

f Additional acre-feet diverted: November 33.
g Of this acreage, 30 was double cropped.
h Additional acre-feet diverted: February 45.
f Pumping plants are located on drain which joins the San Joaquin
River at this Mile.
J Includes an undetermined amount of controlled drainage water.
Additional acre-feet diverted: November 3.

TABLE 193

DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAQUEN RIVER - 1955 (Vernalis to Fremont Ford Bridge) (contd.)

	TABLE 174
DIVERSIONS	AND ACREAGES IRRIGATED - SAN JOAQUIN RIVER - 19 $_{\rm 2}$ (Premont Pord Bridge t Gravelly Ford

	Mile sni Bank	Number and Size of				н	e : 1	Diversi	ne ir A	cre-Fe	ot			-	1.tml Diversion J n Dr	Acres Irriga	
Watar User		Pump	Jan.	Feb.	Mar.	$\mathbb{A}_{p}\mathbf{r}_{s}$	Me.	Jusie	July	A	Sept.	0-2.	N 2.	De .	A re-Feet	Jerara.	. 100
GAGING STATION - SAN JOAQUIN RIVER AT FREEMONT FORD BRIDGE-	149.5																
Stevinson Corporation	135. R	1=1.,*			3	4.7	7		-		Ę	c			A.14.	a .5	
Errecs Farme(b)	1 1.4A	1-0"				-	2	فانود		_ A					- 2 2	36	
Erreca Farms	101.9R	1-18*		16	41		1	12		1.4					16	.a .16	
Dye Firma	1^3.2R	e 1+12"			54	36	149	5	1_	224	85				892	a 387	
D. L. McNamara	r 163. R	1-16"			14		24	25		10		16			132	a ću	
GAGING STATION - SAN JOAQ'IN RIVER NEAR DOS PALOS	180.0																
San Luis Canel Company	g 186.cL	Gravity		520	10533	1.1.1.	7	2~2ľ1	2 124	25 57	174,74	1 1		×.>20	1 9921	. 2	18
FIREBAUGE BRIDGE	198.4																
Antone Zaninovich	20J. 2R	$1 - l_{\downarrow}^{n}$					12		1.	3	23				-	1	
GAGING STATION - SAN JOAQUIN RIVER REAR MENDOTA	200.2																
MENDOTA DAM	201.1																
DELTA-MENDOTA CANAL	A 13L																
Central California Irrigation District	h 208.631	Gravity		4507	44047	5474 <i>3</i>	75562	82928	839.5	r.08.	4631F	213-0		18.5	1 10 y	: 1260 ₆ 5	lumlia
Oresslands water Association(k)	27	-								111	1 1,52	47 31	1.2	71	r 300 5		
Laguns Water District(k)	π								112	1	y				3-3		1-0
Panoche Water District(x)	.n	m			115	-119	250	12 1	1207	322					417-		F 1552
Firebaugh Canal Company	±ر 26. ئ	2-24" 2-36" 2-42"		912	5125	10867	10085	13283	14350	14-4-	• 2113	2594	6°.	£31	14-21	1~497	502
FRESNO SLOUGH	2 8.93L																
LONE WILLOW SLOUGH	219.8R																
Columbia Canal Company	217.8R	q	315	212	5923	3415	551	-36	932	47.	15	2''	.32.	1:74	_lc	1.1.2	-175
GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE	217.83																
United Ferms Company	22 5.2L	$1 - 1 \ge n$								2							
Rose Campbell	232.55L	1-4 "				10		6	14	.4.					52	8 24	
READ OF GRAVELLY FORD CANAL	232.8R																
PREMONT FORD TO GRAVELLY FORD Totals Average cubic feet per second Mo.taly use in per cent of seasor	:81		55 O	6347 114 U. J	56277 1078	98730 1659 11.5	114549 1863 13.4		135106 2194 15.č	1301.j 2111 15.2	۳٤ ۱.,55 ۱.,1	50. 190	2.4	1 220 1.0		228741	20582

· Mileage along San Joaquin River from its mouth 44 miles below

Mileage along San Joaquin River from its mouth 4, miles below Antioch.
Includes 135 acres which also received en undeter ined amount of well mater.
New installation in 1955.
Seventy one scress listed for Mile 201.9R also received en undetermined amount of well weter.
This screage also received an undetermined amount of well water.
This is a portable unit which diverts water at Miles 102.8R and 102.2R.
Plant is located on East Side Canal which joins the San Joaquin River at tids rile.
Point of diversion is at head of Temple Slows.
Point of diversion is considered to be Mendota Fool.

Includes main and outside canels and Reim Ditch.
Includes some double croping and interplating.
k Data functioned by U.S. Bureau of Reclassion.
T dis water was true acted by the Central California Irrightion District.
Includes 1,200 acresfect cellvered from Delta-Mendots Canal dia San Luis Adacema, in October.
T. Lis acresses also received water from the Delta-Mendots Canal.
Group a rease affect was functioned and relations of well matter.
Includes 1,200 million in New York and restored and the set of well water.

#### TABLE 195

# DIVERSIONS AND ACREAGES IRRIGATED - SAN JOAKUIN RIVER - 1957 (Gravelly Ford to Friant Dam)

	Mile and Bank	Number end Size of				Mon	tnly D	iversio	ns in A	crn-Fe	et				Total Diversion Jun Dec.		
Water User		Pump	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	0-1.	Nov.	Dec.	Acra-Feet	Ser.ersl	Rice
W. A Kochergen	23 1456R	1=6*			21	5.	1					. 2	1		•2	8 85	
W. A. Kochergen	234. UR	1-6*				ł	NO	DIVERS I	ON	[							
Briest D. Hart	235. 3L	1 - 3 *				1	1	1	1	1	1				11	1	
J. E. Pullar(b)	235+ 13R	$I = c_{II}$				21		10	Ŷ	la'					24	88	

Milsege slong San Joaquin River fro its with 4g iles calow Antioch.

T is acreage was double 'rop,ei.
 b Formerly listed as W. M. Swepert.

	TABLE 195	
DIVERSIONS AND ACREAGE (Gravelly Fo	ES 1RRIGATED - SAN ord to Friant Dam)	

	Mile and Bank	Number and				Mon	thly D	iversio	ns in A	cre-Fe	et				Total Diversion	Acreu Irriga	ge ted
Water User	43	Size of Pump	Jan.	Feb.	Mar.	Apr.	Ma;	Jure	July	Aug.	Se;t.	Oct.	Nov.	Dec.	- JanDec. Acre-Feet	Generul	Rice
	230.28R	1-c#						16	22								
F. Boldorott a GAGING STATION - SAN	230.LR	1-1						1-	26						40	t uu	
JOAQUIN RIVER NEAR BIOLA	200.4M																
Smith and McInturf	237.33L	1-8"	1			1				, c					۷.	1.0	
M. S. Beatty d	237.43L	1-0"					NO	DIVERSI(	NС								
Milton A. Peterson	237.98R	1-6 ^H				1		21	40	40	15				13	79	
SKAGGS BRIDGE	238.18																
BOWSER RECORDING GAGE	242.41L																
A. and M. Overgaard	243.84R	1-5" 1-0"				47	25	110	1.35	10r	ł	14			477	: 145	
C. B. Hines	244.03L	1-5"	1				NO I	DIVERS1	NC					ļ			
Y. H. Donny	244.86L	1-7"			21	29	12	-25	1	18	2	1,	10		r 141	g 1.1	
C. L. Hammer	245.36R	1-6 м						6							15	C 10 C	
George Mordeca	245.63R	1-120					-	1	2		1		1	1		4	
Y. H. Donny	245.81L	1-C*				4							11		15	f,g ul	
Jasper Ranch	246.15L	1-5"						1							1	c	
Jasper Ranch	24.0 - 34£	1-5"					NO	DIVERSI	ON								
N. W. Valentine	240.73L	1-5"					NO	JIVERSI	ON								
U. S. 99 HIGHWAY BRIDGE	247.38																
Sam Deanda	247.50R	h 1-4"					PLA	NT REMO	VED								
G. Obert1 and Sons	247.04R	1-5"				8		18	38	41	19	21			150	E 120	
G. Oberti and Sons	247.05R	1-4*	1	1			NO	DIVERSI	ON								
San Joaquin Light and Power Company	247.82R	1=3 ⁿ					11	18	1	19		3			03	113	
HERNDON RECORDING GAGE	2/18.31L		ļ														
Fred B. Funch	248.51L	1+3 ⁿ			-		5	14	12		-		- 4		70	14	
SANTA FE RAILROAD BRIDGE	249.23		1								1						-
Miller Brothers	251.40L	1-5"						14	20	15					62	1.	
J. W. Carrell	253.UL	1"			35	1.57	45	1 5	124	4	ő∠	44	17		010	OL.	
J. W. Carrell	2 . OL	1-0"	1				FLA	NT REMO	VED								
J. W. Carrell	253.302	1-4 "			1 . /	- 30	11	29	30	39	- 2		4		205	22	
Fred Russell	253.79R	1-0"			4	6		20	- 20	2/4	0	11	î		117	40	
L. L. Noward	254.82R	$\frac{1-5^{10}}{5^{10}}$						40	41	. 39					120	36	
Sycamore Island Stock Ranch #7 1	<b>4H\$</b> 25∐,y0	1-6" 1-4"			1	14		6	3	ć	1	3			ł4	13	
L. L. Noward	Rد 9 ×54	1-6"						40		17	1				-1	- 2	
Greiner and Wright	254.98L	1-7"					NO	DIVERSI	ON								
Sycamore Island Stock Ranch #6	\$#255.00	1-3"			1	11	C	1:	14	£.L.	23	12	Ţ	1	L 97	30	
Fresno State College	255.05L	3-4"					NO	DI VERSI -	ON								
Sycamore Island Stock Ranch #5	255.34R	1-6"			21	50)				50	131	13			.0	j	
Sycamore Island Stock Ranch #8 k	* <b>#</b> 255.5	m l-4"			2										2	4	
Sycamore Island Stock Ranch #4	<b>≈≈</b> 255 <b>.</b> 84	1-5"			38	23		2.	1	52	52	26			e.314	1 36	
Sycamore Island Stock Ranch #3	255.93R	1-4"			1.17	1%	39	C 1	05	4	74				n 2°4	26	
Sycamore Island Stock Ranch #2	£⊊ر.256	-6 ⁿ			i e	29	11		- 1	C 1	122	21			, 376	74	
Nolland Ranch and Development Corporation	257.1L	1-8"				21		1.	÷υ	01					1 mb	g l'r	

Mileage elong San Joaquin River from its mouth 4, miles below Antioch.
 Foint of diversion en place of use is on island in midstream.
 Formerj listed es Ruben quinones.
 This acreage also received an undetermined anount of well water.
 Includes 1D acres of Morello Winery lands. This acrea a slac received an undetermined amount of Fresno Irrigation District water.
 Freviously listed as Lormine Beatty.
 Of this acreage, 32 was double cropted.
 The acreage listed for Mile 245.611 also received an undetermined amount of water from Mile 244.51.

g This acreage also received an undetryined amount of Free or Irrigation District water. Irrigation District water. New Instellation in 1-255. This acreage was much erregues. K Te porcery installation for 1950. This is a portaile unit writch undertain attain it Hiler S suff. 255.05, and 2.55. Includes a re-feet diverted by a 4" to porary unit located at Mile 255.4%. F Includes 1 acre-feet diverted in March by a 4" to porary unit located at Mile 255.4%. G Combined acreage for Miles 2.7.1L and 257.701.

TABLE 195 DIVERSIONS AND ACREAGES IRRIGATED - UPPER SAN JOAQUIN RIVER - 1955 (Gravelly Pord to Priant Dam) (contd.)

	Mile and Bank	Number and Size of				Mon	thly Di	versio	na in A	cre-Pe	ot				Total Diversion Jan Dec.	Acrea Irriga	gn ted
Water User		Pump	Jan.	Feb.	Mar.	App.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Acre-Peet	General	Rice
Holland Ranch and Development Corporation	257.70L	1-12"				43		5	104	73					225	9	
L. D. Cobb	258.06N	1-6" 1-7"			5	16	56	234	230	84	100	90	16	1	832	ь 149	
STATE HIGHWAY 41 BRIDGE	-58.33																
R. J. Curtis	258.39L	1-7"				8	21	53	54	67	53	17			273	66	
W. E. Roberts	258.80L	1-6"				9	7	54	34	26	17	12	5	1	165	c 147	
W. E. Roberts	258.90L	1~12"		1	3	45	57	113	123	86	51	23			502	c	
J. E. Cobb	259.39N	1-0" 1-7"				17	40	87	101	77	65	7	1		415	105	
SITE OF OLD LANES BRIDGE	259.76																
Marjorie E. Sime	259.80L	1+6ª			10	7	6	32	41	37	12				145	36	
J. E. Cobb	200.4R	1-6ª		1	6	16	20	38	46	40	34	10	1		211	95	
Duane M. Polsom	261.10L	1-21"		]			NO	DIVERSI(	DN .								
R. C. Arnold	261.53R	1~l+"			3	21	9	46	5.	46	61	12	1		253	83	
Duane M. Polsom(d)	261.0L	1-3à									1	3			4	2	
Duane M. Folsom	261.70L	1-6 ⁿ					10	77	179	181	57	8			512	e 205	
E. G. Rarde(d)	e=201.75	1 - 5 ⁿ						11	22	12	5				50	20	
E. G. Rank	e#261.90	1-5"						16	20	22	3				61	30	
E. G. Rank	00202.07	1-0"						19	30	27	6				82	40	
Duene M. Polsom	262.27L	£ 1-8"				29	37	95	72	82	45	70			400	81	
A. Brown	202.431	1-5"				22	9	27	13	14	10	7			102	g 74	
E. G. Rank	262.48L	1-5"				5		13	28	39	23				g 108	h 63	
Dale McCoon	262.60R	1-6"					14	119		65					198	35	
SAMPLES RANCH RECORDING GAGE	202.06																
W. N. Rohde(1)	262.06L	1-7"				6		79	43	50	20		4		202	111	
Dale McCoon	263.40R	1-7*						67	240	272	109		29		717	107	
Dale McCoon	263.48R	1-6 ⁿ		ļ					28	31	4				73	43	
Richard Jensen	263.76R	1-5"			39	77	89	106	109	109	107	107	28		771	90	
Pacific Coast Aggregate Company	20 J. UUL	1-6" 1-8"					INDU	USTRIAL	USE ON								
N. W. Ball #1	1 204.00L	1~6 ^H		1				50	37	22	5				84	15	
H. W. Ball #2	j 264.00L	1-5"			3	7	5	13	17	16	18	2			81	19	
H. W. Ball #3	j 204.00L	1-3"				10	8	21	31	19	14	9	2		114	10	
H. W. Ball #h	264.08L	1-64			8	7	12	70	68	88	81	. 8			362	39	
1ko D. Ball	204.60R	1-6"			15	71	57	116	116	116	208	83	32		714	35	
W. F. Ball	204.83L	1-4" 1-5"			5	8	25	74	116	104	38	23	7		400	52	
V. D. Roullard	255.38L	1-C "				18		22	36	53	26				155	39	
V. D. Roullard	205.40L	1-5"			10	16	26	47	43	42	29	21	3		237	17	
Durando and Bellin	267.50L	1-7"	2		24	66	54	117	200	171	85	62	12	2		223	
GAGING STATION - SAN JOAQUIN RIVER BELOW FRIANT	268.13L																
FRIANT BRIDGE	268.68																
Wienon-Watson Company	2 y.18R	2-5 ¹¹			1	13	6	9	16	25	8				78	4.1	
COTTONWOOD CREEK	204.53R																
FRIANT DAM	207.63																
ORAVELLY PORD TO FRIANT DAM			-											-			
Totals Average cubic feet per second Monthly use in per cent of seas	onal		2 0 0	1 0 0	346	1042 18 7.5	749 12 5.4	2452 41 17.7	326y 53 23.6	3045 50 22.0	1859 31 13.5	841 14 6.1	216 1.6	0.1	13828 19	3775	0

e e e o c d o

Distance elong San Joequin River from its mouth 14 miles blow Antioch. F it of diversion and place of use is on island in midetreem. C blinds ecreage for Hiles 257.1L and 257.7L. Of this screage, 120 mes double crouped. Now installation in 1955. Includes 6 acres which also received an undetermined amount of well meter.

f Previously listed as a 7" unit. 6 Theory four acres listed for Mile 262.43L mlmo received an undeterning mount of water from Mile 262.46L. h Includes 38 acres which also received an undaterained amount of well water. i Pormerly listed as Holland Ranch and Devalopment Corporation. j Plant is located on pond wnose asjor source of supply ls from the Pacific Coast Aggregate Company plant located at this mile.

DIVERSIONS AND ACREAGES IRRIGATED - FRESNO SLOUGH AND JAMES BY-PASS ^a - 1955 (The following table arranged from data arranged by U. S. Bureau of Reclamation)

	Mil	6*				Mon	thly D	iversio	ns in A	cre-Fe	et -				Total	Acrea	
Water User	From	То	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Diversion Jan Dec.	Irriga	·
Haver ober			<u> </u>		<u> </u>	<u> </u>									Acre-Feet	Oeneral	Rice
State of California Mendota Waterfowl Mgt.	6.45	8.20					20	456	659	805	1610	2654	1406	524	1- 8134		
Traction Ranch	#(0	.75)			18	307	2	1182	897	829	188				3423	430	500
Reclamation District 1606	#(1	. 50)			22	44	73	83	87	71	20	24			424		
Jamea Irrigation Diatrict	#(4	4)			1696	1585	401	1952	4165	4505	2202				16506	16558	2592
Freand Slough Water Asan,	9,20	10,50			42	395	795	803	797	684	280	288	46		4130	479	387
J. W. Wilaon	11	70			30	111	458	474	460	458	48				2039		
Tranquillity Irrigation District	12.00	13.75			2884	1934	4149	5855	4562	4998	948	399			25729	6172	1652
Melvin D. Hughes	c 12	, 20							1				50		50		
nearan er nagilea																	
Totals Average cubic feet per secon Monthly use in per cent of s			0000	000	4692 76 7.8	4376 74 7.2	5898 96 9.7	10805 182 17.9	11627 189 19.2	12350 201 20,4	5296 89 8,8	3365 55 5.6	1502 25 2.5	524 9 0.9	83	23539	5131

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Mileage along Fresno Slough from its mouth at Mile 208.93L on the San Joaquin River. Plant is located on James By-Pass. Mileage above confluence of James By-Pass with Fresno Slough is indicated in (). #

a The water in Fresno Slough and James By-Pass is mainly derived from the San Joaquin River (Mendata Pool backwater created by Mendota Dam) and is occasionally augmented by flows from the Kings River via James By-Pass.
b Includes delivery from San Luis Canal and Delta Mendota Canal via San Luia Wasteway.
c Mobile pump.

#### TABLE 197 DIVERSIONS AND ACREAGES IRRIGATED - MERCED RIVER - 1955

	Mile and Bank			Mo	onthly (	Diversio	ons in <i>i</i>	Acre-Fee	et		Total Diversion	Acre Irrig	
Water User	above Mouth	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
HILLS FERRY BRIDGE	1,1	:											
Stevinson Water District #1	1.8R	1-16"	1	99	151	170	183	201	228		1033	a 325	
Stevinson Water District #2	3.8R	1-20"	55	321	292	562	528	781	434	261	b 3234	c 811	
Milton Gordon	4.3L	1-10"		13	24	32	41	59	54	34	d 257	c 102	
GAGING STATION - MERCED RIVER NEAR STEVINSON	4.6												
Salvatore De Angelis(e)	4.8L	1-12"	6	10	15	19	17	20	20		107	33	
Maria De Angelia	5.8L	1-12"	6	14	35	59	54	43	23	12	246	84	
Lydell Peck	6.1L	1-15"		38	134	180	164	119	130	27	£ 792	224	
Stevinson Water District #3	7.7L	1-20"	220	213	201	249	<b>4</b> 64	513	401	255	g 2516	h 1128	
Manuel Clemintino	8.5L	1-12"	14	16	33	26	66	28	21		1 204	80	
Manuel Clemintino	8.9L	1-12"		33	46	42	55	47	41		264	109	
Samuel B. McCullagh	9.4L	1-12"	19	73	124	145	198	179	101	63	1 902	229	
J. R. Jacinto	9.6L	1-12"	31	39	95	63	75	97	62	45	507	3 107	
R. W. Adams and Mrs. J. B. Silva	10.35L	1-10"	19	154	150	247	253	229	229	111	k 1392	385	
John Vierra m	10.8R	1-3"	11	6	14	17	20	20	18	20	n 126	49	
Manuel Freitas	10.9L	1-12"		32	60	78	95	85	84	32	<b>f</b> 466	193	
R. E. Pruaao and John Vierra	10.9L	p 1-5" p 1-8" 1-12"	12	63	79	54	146	163	114	76	q 707	r 220	
M. Turner(a)	11.25R	1-2"				1	1	1	1		4	5	
Tony Vierra	11.6L	t 1-5" 1-8"	38	68	71	131	126	158	138	36	u 766	133	

a Of this acreage, 110 was double cropped.
b Additional acre-feet diverted: February 2 and November 39.
c Of this acreage, 40 was double cropped.
a Additional acre-feet diverted: January 2, February 1, November 13, and December 11.
e Previously liated as Salvador De Angelis.
f Additional acre-feet diverted: November 4.
g Additional acre-feet diverted: November 4.
f Additional acre-feet diverted: November 4.
f Additional acre-feet diverted: November 26 and December 3.
h Of this acreage, 173 was double cropped. Includes 1,010 acres which also received an undeternined amount of East Side Canal water.
i Additional acre-feet diverted: November 1.

J Of this acreage, 31 was double cropped. k Additional acre-feet diverted: November 3 and December 4. m Previously listed as Jack Vierra. Additional acre-feet diverted: February 1 and November 5. o Gne 3ⁿ unit was installed in 1955. d Additional acre-feet diverted: November 57. of this acreage, 125 was double cropped. Installed prior to 1955. Not previously listed. Replaces a 6ⁿ unit. u Additional acre-feet diverted: January 9, February 11, November 7 and December 1.

TABLE 197 DIVERSIONS AND ACREAGES IRRIGATED - MERCED RIVER - 1955 (contd.)

	Mile and Bank	Number and		Мо	onthly I	lversio	na in /	lore-Pae	t		Total Diversion	Acre	age
Water User	above Mouth	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Det.	Mar Oct. Acre-Feet	General	Rice
J. R. Silva	11.6L	1-12"	48	62	129	66	153	84	71		613	1~9	
MILLIKEN BRIDGE	11.65												
M. Turner	11.7R	1-4*				NOI	IVERSI	214					
E. and J. Gallo Winery Ranch	12.35L	1-10"	3.								3	a	
Soren Husman	12.4L	1-64	13	5 8	11	18	23	24	23	5		ъ 40	
M. Turrer	1	c 1-12"	5			9	11	17		1	51	30	
E. and J. Gallo Winery Ranch	12.85L	1-10" 1-12"	62	260	나나	224	275	186	59		d 1080	a 420	
M. Turner	13.4R	1-4"				PLA	T REMOT	ÆD					
Anthony C. Pires	14.3R	1-6"	3	1	6	13	13	10	10		56	51	
J. M. Souza	14.5L	1-10"	14	24	47	58	53	57	43	25	e 321	f 87	
Anthony C. Pires	14.8R	1-6"		3	5	10	11	10	2		41	29	
J. E. Gallo(g)	14.85L	h 1-4"			3	3					6	55	
C. Koehn(1)	14.8L	1-5"				NO I	IVERSIO	DN .					
Anthony C. Fires	15.4R	1-6"			12	3	12	11	1		39	24	
A. H. Stafford(j)	16.2R	1-7"			9	20	25	21	16	7	98	38	
E. and J. Gallo Winery Ranch	16.5L	1-10"	39	125	43	145	210	127			k 689	m 300	
RECORDING GAGE	16,55												
C. J. Carpenter	17.05L	1-7"	14	5	14	18	19	22	19	3	n 114	42	
Ervey Schmidt	17.7L	1-5"	6	10	6	23	18	24	19	4	110	p 26	
S. Magsalay(q)	18.1R	1-6"		1	2	25	21	17-	3		69	36	
J. H. Thomas	18.4L	1-6"	7	7	9	22	26	26	20	15	r 132	a 34	
C. F. Hucke	18.5L	1-4"	2	4	5	12	10	12	10	5	r 60	t 24	
H. L. Waters and W. Odell(u)	18.6R	v 1-5"		6	7	7	7	7	6		40	15	
H. L. Wa ers and W. Odell(u)	19.3R	w 1-6"		7	11	12	12	12	6		60	21	
S. P. Magealay	19.8L	1-6"	7	14	5	3	6	1	12	1	e 49	x 20	
J. Prancis(y)	19.8L	1-6"		5	9	10	14	26	l	6	z 71	18	
H. A. Jones(u)	20.3R	1-6"		3	9	3	1				16	14	
J. E. Gallo(aa)	20.4L	1-7"		13	28	46	27	23	11		148	ab 109	
G. L. Carlson	20.6R	1-6"		U	13	21	24	18	14	8	104	t 35	
U. S. HIGHWAY 99 BRIDGE	21.04												
SOUTHERN FACIFIC RAILROAD BRIDGE	21.05												
A. C. Jorgensen #1	21.05R	1-6"		5	6	10	7				28	ac 28	
A. C. Jorgensen #2	22.2R	1-10" 1-16"	131	136	93	174	175	146	132	14	ad 1001	ae 204	
A. C. Jorgensen #3	22.8R	1-12" 1-15"	69	9	69	111	135	134	129	25	af 681	ag 189	
A. C. Jorgensen #4	23.6R	1-8"					IVERSIC	N -					
C. H. Passadori, Jr.	24.2R	1-6"	5	16	3	34	36	32	49	7	ah 182	81 56	
T. Nishihara	24.3R	1-5"				PLAN	T REMOV	ED					
Leonard Aue(aj)	24.5L	1-0"	34	33	10	3	10	3	18		111	35	
T. Niahihara	24.6R	1-6"				NO E	IVERSIC	N					
T. Nishihara	25.OR	1-5"		7	4	7	11	7	9		45	30	
T. Nishihard	25.5R	1-6"		9	21	10	39	9	20		108	ae 55	

Combined acreage for Miles 12.35L and 12.85L. Includes 160 acres which also received an undetermined amount of well water.
b Of this acreage, 18 was double cropped.
e Previously listed as a 14" unit.
Additional acre-feet diverted: November 160 and December 167.
a Additional acre-feet diverted: November 1.
of this acreage, 13 was double cropped.
g New installation tr 1°5.
h This is portable unit which diverts water at Miles 14.85L, 16.60L, and 16.22L.
i F 'vualy listed as Conte Kochn.
i'' listed as Frank Bello.
i a acre-feet diverted: November 120 and December 101. des 150 acres which also received an undetermined amount of well water.
n Additional acre-feet diverted: November 4.
p Includes 12 acres of Carpenter lands. Of this screage, + was deuble acropfed.
q Formerly listed as E. C. Milhous.
r Additi nal acre-feet diverted: November 3.

- Of this acreage, 9 was double cropped.
  Of this acreage, 7 was double cropped.
  Pormerly listed as John Prancis.
  Replaces a 5" unit.
  Replaces a 5" unit.
  Of this acreage, 11 was double cropped.
  Pormerly listed as Howard A. Jones.
  Additional acre-feet diverted: November b.
  as Pormerly listed as H. Juneman.
  This acreage also received an undetermined amount of well water.
  This acreage, 12 was double cropped.
  ad Additional acre-feet diverted: Pebruary 1.
  a Of this acreage, 12 was double cropped.
  af Additional acre-feet diverted: Pebruary 4.
  ag Of this acreage, 22 was double cropped.
  ah Additional acre-feet diverted: November 9.
  ai Includes 18 acres of Nishthara lands. Of this screauge, 28 was double cropped.
  aj Pormerly listed as Helen Varnum.

	Mile and Bank	Number and		Mo	onthly I	Diversio	ons in a	Acre-Fee	et		Total Diversion	Acre Irri	
Water User	above Mouth	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
Merced River Farms Association	26.3R	1-8"	40	67	44	128	120	106	72	26	a 603	b 103	
W. C. Magneson	26.55R	1-5" 1-6"	5	5	23	43	28	35	23	17	179	51	
Joseph Vierra	26.8L	c 1-10"				22	16		44		82	d 173	
SANTA FE RAILROAD BRIDGE	27.05												
W. C. Magneson	27.5R	1-10"		10	88	25	89	118	48		378	e 104	
GAGING STATION - MERCED RIVER AT CRESSY BRIDGE	27.6												
T. Nishihara	27.8R	1-6"		7	1	29	19	20	11	1	88	f 23	
Al and Harriet Wentzel(h)	27.85L	1-11"						3	3		6	5	
M. Uyekubo	28.1R	1-5"		5	4	51	7	6	5	3	g 32	f 19	
John Faria(1)	28.4R	1-5"			10	10	8	3	9		40	18	
J. Campadonica	28.6R	1-6"			3	3	8	5	4	4	27	14	
Oliver Alves	28.6R	1-8"			18	55	24	32	53		182	71	
Anthony Demchille	29.1R	1-7"				44	45		33	12	134	68	
Anthony Demchille	29.75R	1-6"				24	15	14	13		66	19	
Manuel Silva (High Lift)	29.9R	1-6"				NO I	DIVERSI	N					
Manuel Silva (Low Lift)	29.9R	1~6"				37	32	30	22		121	60	
Frances I. Rose(j)	30.7L	1-6"		30	37	34	45	31	31	16	224	51	
Manuel Silva	30.95R	1-12"		58	7	69	115	194	28		471	175	
W. F. Bettencourt(j)	31.1L	1-8"	7	42	17	106	91	39	87	8	397	63	
Manuel Silva	31.5R	1-6"	1	16	61	94	66	146	155	14	553	40	
Albert Chavas	31.6R	1-6"				NO I	DIVERSI	ON					
P. Halaris(k)	32.3L	1-8"					74	48	55		m 177		
SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)	32,52												
Albert Chavas	33.1R	1-6"	19	39	53	74	87	79	59	3	413	n 100	
Evan Spiva(p)	33.2L	1-4"	3	3	3	11	32	7	22	7	q 88	11	
Albert Chavas	33.55R	1-6"			30	14	52	14	20		130	80	
W. F. Bettencourt, P. Halaris, and Cowel Land and Cement Company	36.9L	Gravity		530	796	1207	1171	1230	762	147	<b>r</b> 5843	m,s 804	
Reinero Brothers	39.1L	1-6"				PLAN	IT REMO	ÆD					
Reinero Brothers	39.2L	1-6"				8	13				21	47	
E. M. Davis	40.2L	t 1-3"	16	29	27	59	59	75	43		308	50	
GAGING STATION - MERCED RIVER BELOW SNELLING	42.1												
MERCED RIVER MOUTH TO SNELLING Totals Average cubic feet per second Monthly use in per cent of seasonal			985 16 3.2	2814 47 9.3	3379 55 11.1	5296 89 17.5	6086 99 20.1	6044 98 19.9	4374 74 14.4	1356 22 4.5	30334 62	8580	0

a Additional acre-feet diverted: November 13.
b Of this acreage, 4 was double cropped.
c Replaces an 8" unit.
d This acreage also received an undetermined amount of water from the Merced Irrigation District.
e Of this acreage, 27 was double cropped.
f Of this acreage, 12 was double cropped.
g Additional acre-feet diverted: February 1.
h New installation in 1955.
i Previously listed as John Farie.
j Formerly listed as Rose and Shaffer.

k Not previously listed.
m Two hundred fifty five acres listed for Mile 36.9L also received 177 acre-feet of water from Mile 32.3L.
n Of this acreage, 55 also received an undetermined amount of Dry Greek water.
p Freviously listed as Ivan Spiva.
q Additional acre-feet diverted: November 2.
r Additional acre-feet diverted: November 57.
s Of this acreage, 117 was double cropped.
t Replaces a 4" unit.

#### TABLE 197

DIVERSIONS AND ACREAGES IRRIGATED - MERCED RIVER - 1955 (contd.)

TABLE 198 DIVERSIONS AND ACREAGES IRRIGATED - TUOLUMNE RIVER - 1955

	Mile and Bank	Number and		Mo	onthly D	iversio	ns in /	lore-Pee	t		Total Diversion	Acre	
Water User	Above Mouth	Size of Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct,	Mar Oct. Acre-Feet	General	Rice
	0 10	1-44	97	28	57	52	61		50	89	s 434	300	
E. T. Mapes	0,4R 1,3R	1-20"	487	20 84	57 318	575	577	675	219	48	b 2983	e 2902	
E. T. Mapes		1-12"	83	162	210	66	222	109	100	28	770	e 188	
J. V. Steenstrup Estate(d)	1.9L 2.2R	1-12"	03	102	9	40	44	50	20	20	177	65	
J. DeSouza and J. B. Silva	2.2N	f 1-12"	172	270	5	335	268	456	216	85	1806	g 364	
J. V. Steenstrup Estate(d) OAGINO STATION - TUOLUMNE		1 1-12	1/6	210		555	200	4.50	210	0,0	1000	6 204	
RIVER AT TUOLUMNE CITY	3.35	1											
Russell Murray	3.4L	1-5"	4	11	31	21	16	7	9		99	18	
Bancroft Fruit Parms	4.1R	1-12"		49	32	46	43	51	44	Э	268	72	
Bancroft Fruit Farms	5.OR	1-10"	13	48	84	106	111	105	58	12	h 537	165	
Western Parms(1)	6.3L	1-16"			30	17	22	30	35	21	155	65	
R. L. Maxfield	6.9R	1-7"	10	18	22	44	56	43	24	13	230	41	
Eugene Boone, Oalen Hartwich, and Tony Lemos	7.1R	1-10"	123	18	117	157	126	111	60	67	j 779	160	
W. F. Duffy	7.2R	1-7"	3	50	44	26	26	24	34		207	43	
Ella T. Rabilly	7.8L	1-10"		30	52	48	40	17	14	19	220	k 43	
W. F. Duffy	8.4R	1-10"	52	63	101	91	82	128	75	53	645	m 101	
Ella T. Rahilly	8.5L	1-10"		22	40	42	30	44	20	17	215	82	
A. C. Watkina	9.4L	1-12"		90	18	40	82	88	47	74	n 439	90	
McClure Ranchea(1)	9.7R	1-12"					40	7	55	21	123	53	
Tuolumne Cooperative Parms, Inc.	10,2R	1-14"	63	44	71	74	130	110	103	55	p 650	q 121	
C. B. and L. D. Fodesto	15.75R	1-3"		8	2	5	3	6			24	24	
SOUTHERN FACIFIC RAILROAD BRIDGE	15.8												
U. S. HIGHWAY 99 BRIDGE	16.05												
CAGINO STATION - TUOLUMNE RIVER AT MODESTO	16.05												
DRY CREEK	16.5R	1						1			1		
Jack Gardella(r)	20.3R	1-10"	26	25	29	54	64	50	41	34	s 323	t 70	
L. J. Foit	20.4L	1-5"				PLA	NT REMO	VED				1	
Charles N. Whitmore(i)	20.45L	1-6"	7	8	10	10	15	12	5	3	u 70	15	
H. W. Ortman	20.5R	1-12"	33		13	38	35	53	18	12	202	q 81	
SANTA FE RAILROAD BRIDGE	21,6												
O. R. Trent	23.5R	$\frac{1-1\frac{1}{2}}{1-6^{n}}$	3	5	20	14	15	37	16	16	126	v 38	
		1			4						27	16	
C. S. Blakesley	23.6R	1-6"	3	4	4	7	10	5	2	2	37	10	
M. A. Goodman and Sons	25.6R	1-2"				NO	DIVERSI	ON I		ļ			
L. B. and J. H. Fox	25.8L	1-3"	7	8			14		0	1	29	w 85	
H. W. LOW	26.6L	1-4"	8	13	15	21	21	23	24	10		x 60	
H. W. LOW	27.0L	1-4"	13	16	26	30	24	25	27	15	173 87	50	
Paul J. Ferguaon	27.3R	1-10"	10		19	23	6	21	8	_		y 19 +0	
B. and L. Ranch	27.9R	1-12"	4	11	12	16	11	13 4	5	5	1	1	
Ronald R. Painter	28.3R	1-7"			-	6	- ⁻		0.0		14	28	
Michel Inveatment Company	28.8R	2 1-8"		118	54	134	98	81	89	27	1	aa 110	
E. B. and D. V. Butterfield	29.4R	1-10"			1	23	2	-			39	60	
J. W. and Lola May Short	29.4L	1-7"				1	DIVERSI	1					
Pirpo Ranch	30.2L	1-10"	7	24	13	38	45	51	28	38	ab 244	ac 95	

a b c

d

e ſ

- g
- Additional acre-fect diverted: February 6. Additional acre-fect diverted: January 1, February 2, and November 4. This screage sise received an undetermined amount of controlled drainage water from Modesto Irrigation District. Formerly listed as J, V, Steenstrup. Of this screage, 67 was double cropped. One 10" and one 12" unit was removed in 1955. Of this acreage, 140 was double cropped and 64 also received an un-detarmined amount of controlled drainage water. Additional acre-fect diverted: January 1, February 4, and November 5. New installation in 1955. Additional acre-fect diverted: November 53. Of this acreage, 15 was double cropped. Additional acre-fect diverted: N vember 13. Additional acre-fect diverted: Wember 13. Additional acre-fect diverted: January 2 and November 9. h 1
- J k
- m n P

q Of this acreage, 48 was double cropped.
Formerly listed as Joseph Sanguinetti.
Additional scre-feet diverted: Pebruary 1.
This acreage also received an undetermined amount of drain water from Empire Sewer Parm.
Use this acreage of A. L. L. 1b lands. Of this screage, 24 was double or pped.
This acreage also received an undetermined amount of well water.
of this acreage, 9 was double cropped.
x A 12" unit was removed in 1955.
a Of this acreage, 8 was double cropped.
a A 12" unit was removed in 1955.
a Of this acreage, 8 was double cropped.
a dditional acre-feet diverted: November 7.
ac Of this acreage, 35 was double cropped.

			TABLE	19	98					
DIVERSIONS	AND	ACREACES	IRRIGATED	-	TUOLUMNE	RIVER	-	1955	(contd.)	

	Mile and Bank Above	Number and Size of		Mo	onthly 1	Diversi	one in A	Acre-fee	et		Total Diversion	Acre Irrig	
Water User	Mouth	Pump	Mar .	Apr.	May	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Feet	General	Rice
W. C. Chase	30.4R	1-4"	1	1	1	1	1	1			Ø	4	
SOUTHERN FACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)	31.5												
GAGING STATION - TUOLUMNE RIVER AT HICKMAN BRIDGE	31.7												
A. C. Laughlin	34.2R	1-6"				NO	DIVERSI	ON					
Donald Ketcham	38.4R	a $1-l\frac{1}{2}$ "	1	4	6	15	14	15	10	8	73	28	
A. E. Ketcham	39.4R	1-8"	18	14	15	42	60	70	31	37	287	b 59	
George H. Sawyer	39.8L	1-6"		20	16	40	70	59	31	18	254	c 356	
GAGING STATION - TUOLUMNE RIVER AT ROBERTS FERRY BRIDGE	39.9												
William J. Silva	43.3L	1-6"	7	5	1	23	12	11		3	d 62	16	
Curtner Zanker	45.7L	1-10"			36		126	76			e 238	r 98	
Dolling Brothers	46.3R	1-8"	6	50	66	98	102	104	75	48	g 549	50	
O. F. Fine(h)	46.7L	1-6"	5		5	9	12	9	6	1	e 47	14	
GAGING STATION - TUOLUMNE RIVER AT LA GRANGE	50.5												
Totals Average cubic feet per second Monthly use in per cent of seasonal			1266 21 8.8	1335 22 9.2	1394 23 9.7	2427 41 16.8	2740 45 19.0	45.	1599 27 11.1	879 14 6.1	30	6289	0

a Replaces a 5" unit.
b Includes 5 acres of C. E. Ketcham lands.
c This acreage received an undetermined amount of well water. Of this acreage, 72 was double cropped.
d Additional acre-feet diverted: January 4.

e Additional acre-feet diverted: November 1. f Includes 8 acres of O. F. Fine lands. g Additional acre-feet diverted: November 22. h New installation in 1955.

FABLE 199
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DIVERSIONS AND ACREAGES IRRIGATED - DRY CREEK - 1955

· /**	Mile and Bank Above	Number and Size of		M	onthly	Diverai	ona in	Acre-Fe	et		Total Diversion Mar Oct.	Acre Irrig	
Water User	Mouth	Pump	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Acre-Feet	General	Rice
Fodesto and Arata	C.4R	1-6"		10	19	33	40	38	22		162	a 124	
MODESTO-EMFIRE TRACTION COMPANY RAILROAD BRIDGE	0.7												
STATE HIGHWAY 132 BRIDGE (YOSEMITE BOULEVARD)	0.8												
LA LOMA BOULEVARD BRIDGE	1.2												
Jamea L. Melroae #1	5.0L	1-3"		5	1	2	4		3		12	b 13	
GACING 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	1-11"		1	2	3	3	4	4	1	_ 18	3.	
K. D. Weaver(d)	10.4R	1-6″				2	7	8	6	2	25	b 25	
Roy Brant	10.6R	1-5"				6	9	9			24	b 29	
ALBERS ROAD BRIDGE	11.0												
MODESTO IRRIGATION DISTRICT CANAL CROSSING	11.1												
Lucksinger Farms(e)	12.1R	1-6"				10	10				20	12	
John Luiz	12.6R	f 1-6"				32	59	58	45	76	g 270	h 115	
Luckainger Farma(e)	12.7R	1-6"				16	12	7	12	5	52	1 32	

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 Otstrict.
 c Additional acre-feet diverted: November 1.
 d New installation in 1955.
 e Formerly liated as Lucksinger Brothers.

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	Mile and Bank			M	rthiy	Diversi	ns in .	Aore-Pe	et		Total Diversion	Acre Irrig	
water st.	AD V 1 M OT ,	Size of Pump	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Mar Oct. Apre-Feet	General	Rice
La wire a From a	14.~L					NC D	IVERSIO	8					
Ear. R. P tenser	1L				- L.	4.		1.1	-		11	18	
J Fagunics	1⇔,^R	_=1 "	4 c	5u	- 38	115	148	14	13	82	5 "m8	90	
H. H. Fresch	1.2R	1-8"		4		-4	Ę	-	6	з	39	10	
OAKDALE-WATERFORD HIGHWAY BHIDGE	1												
T tals Average cubi: feet per se ind Monthly use in per cent of seasonal			45 1 2.2	67 4.8	118 2 8,4	22F 4 10.1	. 5	214 19.0	202	1€9 12.1	Int.	+#71	C

a Formerly listed as Lucksinger Brothers. • Addit nal asre-feet diverted: N.emper +.

			TABLE c					
DIVERSIONS	AND	ACREAGES	IRRIGATED	-	STANISLAUS	RIVER	-	1955

	01d Mile *	Mile and Bank	Number and		м	onthly .	Diversi:	ons in	Acre-Fe	et		Total Diversion	Acre Irrig	
Water User	-	Above Mouth*	Size of Pump	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Mar Oct. Acre-Peet	General	Rice
Rry Mures a'	1.1R		1-0"		26	23	23	23				95	30	
E. W. Hawkins	1,8R	0.9R	1-6"	21	14	11	36	24	32	6		b 1+4	. c 36	
CAGING STATION - STANISLAUS RIVER NEAR MOUTH	2.9R	1,9R												
A. J. Chisholm and C. M. Carroll	2.95R	1.9R	1-16"	21	49	10"	121.	*14	11"	98	67	~01	76	
C. M. Carroll	3.OR		1-6"				PLAN	r remov	ED					
C. C. Angyal	4.4R	2.4R	1-18"		173	52	293	263	421	172	63	1431	d 295	
Overton Ran_h (D. F. Koetitz)	5.25L	3.4L	2-12"	136	312	501	705	"6c	<b>8</b> 10	534	354	4112	e 905	
Reclamation District 200+	5.9R	4.OR	1-14" 1-16" 1-20"	621	856	1429	1809	1576	1569	1117	<b>7</b> 19	f 969c	g 1919	
Reclamation District 2075	5.95R	4.05R	2-16" 1-20"	1334	1411	2048	2823	2840	3072	2031	1153	h 16718	1 2933	
Louis W. Felucca	5.85L	4.8L	1-14"	17	5	15	- 1	8	14	~	8	81	50	
Henry Pelucia	6.0L	5.5L	1-1ó"	61	71	96	139	93	175	75		711	180	
J. W. Updike	~.5L	5.8L	1-12"	~	10	26	19	10	32	17		127	34	
C. C. Updike	8.2L	-14L	1-12"		18	1	51	8	30	23	1.	118	95	
Ekelund Rip n Ransm	9. R	4.4R	1-10"	111	95	269	334	424	317	205	<u></u> '' <	182~	J 392	
N. E. Cannon	10.0R	8.7R	1-10"	61	89	104	229	283	239	130	51	k 1192	20~	
D. F. Koetitz	10.1L	9.4L	1-10"	81	141	273	406	244	360	297	265	2167	370	
RECORDING GAGE	1	9.5L												
J hn L. Hertle(m	1.51	9. L	1-100		49	40	44	57	+€	3	10	293	n 57	
E. B.hlen and F. Upchur h p		10.UR	1-164		43	10	52	124	190	5		~30	92	
G. S. Tornel.	15.1R	1. R	1~12"		4		22	43	2			E9	q 40	
DI K Bue I		1 ⁴ L	$1-(-\frac{1}{2})^n$			2	3	3	4	3	1	10	~	
R. E. K her, ang	. +. 9R		1-8"				PLAN	r REMOV	ED					
GAGING STATION - STANISLA'S RIVER NEAR RIP	9	L												

g Of this a reage, 105 was d utie -> pped, h Additi nal wrre-feet diverted. November 1000 1 Of this wrreage, 00 was d uble cropped. ) Of this a reage, 32 was duble wropped. k Additional a re-feet diverted: January 1 and Pebruary 1. m F rmerly 11-ted as J sept Hertle. n Of this a rreage, 31 was double cropped. p New Installs in in 1955. g This a reage was d uble tropped.

DIVERSIONS AND ACREAGES IRRIGATED - STANISLAUS RIVER - 1955 (contd.)

	Old Mile	Mile and Bank			M	onthly	Diversi	ons in	Acre-Fe	et		Total Diversion	Acre	age
Water User		Above Mouth*	Size of Pump	Mar,	Apr.	Мау	June	July	Aug.	Sept.	Oct.	MarOct. Acre-Peet	Oeneral	Rice
SOUTHERN PACIFIC RAILROAD BRIDGE	15.9	15.7				1								
U. S. HIGHWAY 99 BRIDGE	16.0	15.7												
A. Girardi	17.OL	17.7L	1-16"	1	14	141	61	74	1 30		13	434	a 318	
E. J. Freethy	18.8R	19.OR	1-14"	29	39	76	120	166	190	2		622	ь 180	
E. J. Freethy	19.4R	19.5R	1-3" 1-4"				NO D	IVERSIO	N I					
Allen Ranch	20.75R	20.9R	1-14"	68	150	152	200	312	352	328	265	c 1827	d 400	
Heath Ranch	20.9L	21.2L	1-5"	7	7	33	31	36	30	16	17	177	14	
Newton Heisinger(e)	21.6R	21.9R	1-6"				NO D	IVERSIO	N					
Newton Heisinger(e)	21,75R	22.3R	1-10"	18	11	23	35	46	41	44	11	229	£ 65	
Ruth M. Ladd	23.4L	24.2L	1-4 ⁰			9	8	. 8	9			34	23	
MODESTO-ESCALON HIGHWAY BRIDGE	28.15	29.5												
SANTA FE RAILROAD BRIDGE	31,85	33.4												
GAGING STATION - STANISLAUS RIVER AT RIVERBANK	32.0	33.6												
0. B. Trette	32.1R		1-2" 1-4"				PLAN	r removi	ED					
R. P. Barton	34.1R		1-6"				PLAN	REMOVI	ED					
R. P. Barton	34.6R	36.2R	1-7"	1	2	1	30	29	36	5		104	160	
Oakdale Irrigation District (Crawford Pump)	35.9L	g 37.7L	1-14"	98	169	126	271	341	294	80	31	h 1410	1 574	
Oatdale Irrigation District (Brady Pump)	37.OL	g 39.1L	1-12"	82	80	18	157	160	152	110	15	774	j 468	
OAKDALE-STOCKTON HIGHWAY BRIDGE	38.9	41.2												
SOUTHERN PACIPIC RAILROAD BRIDGE (OAKDALE BRANCH)	39.0	41.2												
GAGING STATION - STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE	44.7	47.0												
Harry Himes	46.1L	49.2L	k 1-5"	8	14	22	22	17	1			84	38	
J. S. Harden(m)	46.8L	50.5L	1-6"	6	12	13	24	19	22	20	14	130	41	
Walter B. Wilms	47.5L	52.0L	1-10"	14	13	31	54	54	52	50	39	n 307	44	
KNIGHTS FERRY BRIDGE		54.5												
Totals Average cubic feet per second Monthly use in per cent of sea	isonal			2812 46 6,1	3877 65 8.4	5658 92 12.3	8105 136 17.6	8267 134 17.9	8757 142 19.0	5413 91 11.8	3197 52 6.9	46086 95	10040	0

Mileages on the Stanislaus River were revised in 1955 and the new mileage is listed under "Mile and Bank Above Mouth." The figures under "Old Mile" are the mileage listings prior to 1955. Includes 155 acress which also received an undetermined amount of Modesto Irrigation District water. Of this acreage, 45 was double cropped. Additional acre-feet diverted: January 14, February 3, and Novem-ber 30. Includes 130 acres which also received an undetermined amount of South San Joaquin Irrigation District water. Formerly listed as B. Bonora. Of this acreage, 20 was double cropped. This acreage also received an undetermined amount of well water. .

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Oakdale Inrigation District for season of 1955 maintained plants at Mile 37.7L and 39.1L to supplement the District gravity supply. Additional acre-feet diverted: November 9. This acreage also received an undetermined amount of water from Mile 58.6L. Of this screage, 252 Was double cropped. This acreage also received an undetermined amount of was double cropped. Replaces a 6" unit. Formerly listed as J. H. Anderson. Additional acre-feet diverted: January 1 and November 3. h 1

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TABLE 201 DIVERSIONS AND ACREAGES IRRIGATED - TULE RIVER - 1955

	Mile a.d.Bank	Number and Size f				Mor	thiy D	lveralo	ne in A	ere-Pe	ət				Total Diversion Jan Dec.	Acrea Irriga	
Water User	*	Pump	Jan.	Peb.	Mar.	$h_F \mathbf{r} \star$	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Acra-Feet	General	Rice
Pioneer Ditch	U.3R	Gravity	539	11	526	6	1166	1210	238				150	254	5592	a 2236	
JAGING STATION - T"LE RIVER AT WORT RIDGE	2.2																
Campbell-Moreland Ditch	÷.2L	Gravity	110.	-10	7. A.	708	1740	1079	77				466	785	b 7678	a 1099	
P rter Slough	3.2R	Gravity	1 DHC	12 7	231	114	324							1474	e 4430	d	
P.rter Slough Ditch	e 3.2R	Jravit,	1000	13	140	255	. 15								1509	£ 765	
Vardalia Ditch	- YL	Gra ity	لاماد	R. J.	210	132	292	112							1629	g 1388	
SANTE FE RAILROAD BRIDGE	5.9																
Popl r Ditch	C.CL	Gravity		154	-96	1813	4943	172							10777	r.n 4508	
STATE HIGHWAY 65 BRIDGE	6.7																
SCUTHERN FACIFIC RAILROAD BRIDGE	5.8																
Hu ba- iner Ditch	2R	Gravity	90	555	845	741	1331	745							1 4312	r.j 2164	
Ruodes-Fine Ditch	5.2L	Gravity				146	323	40							515	1 998 î	
OLIVE AVENUE BRIDGE	10.7																
FRIANT-KERN CANAL CROSSING	11.3									ļ							
Wh is Central Diton k	11L	Grevity		2	73		604								m 70L		
ROCHFORD AVENUE BRIDGE	12.0	Į	ŀ								1					}	
HUBBS- INER SPILL	12.7R		ľ									1					
Little Pioneer Ditch	15.0L	Grevity						n NO	01VERSI	ON							
-OTTLE ERIDGE	15.2L																
Tothis Average cubic feet per second Monthly use in per cent of seas	onal		,21. 52 8.7	4517 81 12.2	073 99 16.4	4070 78 12.6	11618 189 31.5	3363 57 5.1	5	0 0 0	0 0	000	618 1c 1.7	2553 42 6.9	51	13158	0

Milesse wownstream from jue tion with South Fork Tule River.
 T is errespe also received an undeter ind a cont of well water.
 Includes an undetermined arcsunt of matter served to Versalia In-igstion District and Porterville State Mag. Itel wall fields.
 T.is figure is the resurest flow at the head of Porter Slough altist the diversion of Porter Slough Ditor.
 Dae other than replands.irg ground water is ne, ligible.
 Point of diversion is on Porter Slough, L.5 lies below head.
 This arcsege also received an undeter inde sount of water from wells and the Pristt-Kers Caudi.
 This arcsege olso received an indeter inde sount of water from wells end Campbell-Moreland Oitch via well fields.

.

h Includes mcreage as follows: Porterville Irrigation District. 3053, Lower Tule River Irrigation District - 1135, and Saucelito Irrigation District - 220.
includes 998 acresfeet of spill to Tule River at Mile 12.9R as follows: Pebruary 212, March 221, April 135, May LOL, and June 30.
J Includes 106L acres in the Bubbs-Miner Ditch Company and 280 ecres in the Gilliam-Rodee Ditch Company.
k Reinstallation in 1955 of e plant previously removed.
Wetter was served to acreage of the Lower Tule River Irrigation Oistrict.
Ditch was used in 1955 to redivert water originating in the Priant-Kern Canel.

EXPORTATIONS FROM SACRAMENTO-SAN JOAQUIN DELTA - 1955

Water User	Mile & Bank	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
City of Vallejo							Cache	Slough						
Total acre-feet diverted Average cubic feet per second Monthly diversion in % of seasonal		678 11 6.3	606 11 5.6	708 12 6.6	752 13 7.0	1084 18 10.1	1308 22 12.1	1137- 18 10.5	1343 22 12.5	1143 19 10.6	915 15 8.5	637 11 5.9	467 8 4.3	10778 15
Arreture Oracle Orace)	20 57					<u>01d</u>	l San Jo	aquin F	liver					
Contra Costa Canal	30.5L													
Total acre-feet diverted Average cubic feet per second Monthly diversion in ≸ of seasonal		1886 31 3.8	2137 38 4.3	2404 39 4.9	4466 75 9.1	4366 71 8.9	6320 106 12.8	6433 105 13.0	101	5837 98 11.8	3652 59 7.4	3122 52 6.3	2493 41 5.1	49350 68
Delta-Mendota Canal	44.6L													
Total acre-feet diverted Average cubic feet per second Monthly diversion in ≉ of seasonal		563 9 0.1	20267 365 1.7	96472 1569 8.3		146073 2376 12,6	183741 3088 15.8		184258 2997 15.9	108460 1823 9.4	69041 1123 6.0	20846 350 1,8	8499 138 0.7	1160126 1602

TABLE 203																
DIVERSIO	NS AND A	CREAGES	IRRI(	JATED ·	- EAST	SIDE (	CANALS	AND IRR	IGATION	DISTRI	ICTS -	1955				
Water User	Mile and Bank	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	Acreag Irrigat General	
					<u> </u>		San	Joaquir	River							
Friant-Kern Canal	269.63L															
Total acre-feet diverted Average cubic feet per second Monthly diversion in ≸ of seasonal		153 2 0	11839 213 1.5	87015 1415 10.7	77125 1296 9.5	64015 1041 7.9	134678 2263 16.6	166887 2714 20.6	156912 2552 19.3	74396 1250 9.2	27907 454 3.4	10471 176 1.3	173 3	811571 1121		
Madera Canal	269.63R															
Total acre-feet diverted Average cubic feet per second Monthly diversion in % of seasonal		000	817 15 0.4	18706 304 8.5	10200 171 4.7	12192 198 5.6	37164 625 17.0	53302 867 24.3	52112 847 23.8	34351 577 15.7	000000000000000000000000000000000000000	0000	0000	218844 302		
							Me	erced Ri	lver							
Merced Irrigation District Main Canal	46.0	0		15000	61526	60675	oliaca	07853	03503	20661				- 16000		6.000
Main Canal Northside Canal		0	0	15777 837	61516 2317	62675 2876	943 <b>51</b> 4324	97751 4084	93591 4284	39664 2192	0 607	0 119	0 44	a 465325 21684	ъ 102150 4067	4555 0
Total acre-feet diverted Average cubic feet per second Monthly diversion in ≸ of seasonal		000	0000	16614 270 3.4	63833 1073 13.1	65551 1066 13.5	98675 1658 20.3	101835 1656 20.9	97875 1592 20.1	41856 703 8.6	607 10 0,1	119 2 0	44 1 0	487009 673	106217	4555
							Tu	lumne F	liver							
Turlock Irrigation District	51.5L															
Total acre-feet diverted Average cubic feet per second Monthly diversion in ≸ of seaeonal		20340 331 3.6	12570 226 2,2	62620 1018 11.2	58390 981 10.4	59990 976 10.7	83760 1408 14.9	85150 1385 15.2	76290 1241 13.6	62540 1051 11.2	11050 180 2.0	14320 241 2.6	13580 221 2.4	c 560600 774	d 168070	0
Modesto Irrigation District	51.5R	ĺ														
Total acre-feet diverted Average cubic feet per second Monthly diversion in % of seasonal		1230 20 0.5	17 0 0	21935 357 8.5	37287 627 14.5	30283 492 11.8	42233 710 16.4	44110 717 17.1	35834 583 13.9	23563 396 9.1	7186 117 2.8	5664 95 2.2	8347 136 3.2	e 257689 356	r 68623	398
Waterford Irrigation District	51.5R															
Total acre-feet diverted Average cubic feet per second Monthly diversion in ≸ of seasonal		000	0 0 0	2107 34 6.2	3285 55 9.7	4461 73 13.1	6489 109 19.1	5933 96 17.4	5537 90 16.3	4329 73 12.7	1887 31 5.5	000	0000	34028 47	g 7172	0
							Star	1slaus	River							
Oakdale Irrigation District	58.6															
Northaide Canal Southaide Canal		0	0	4073 7552	7203 15052	14949 23754	17055 28229	13375 22316	11785 20303	3240 4223	413 0	154 0	00	72247 121429	h 20468 j 34511	2039 436
Total acre-feet diverted Average cubic feet per second Monthly diversion in % of seasonal		000	000	11625 189 6.0	22255 374 11.5	38703 629 20,0	45284 761 23.4	35691 580 18,4	32088 522 16,6	7463 125 3.8	413 7 0.2	154 3 0.1	000	193676 268	<b>k</b> 54979.	2475
South San Joaquin Irrigation District	58.6R															
Total acre-feet diverted Average cubic feet per second Monthly diversion in ≸ of acasonal		12062 196 4.9	9861 178 4.0	9556 155 3.9	38967 655 16.0	38159 621 15.7	45274 761 18.6	35606 579 14,6	32029 521 13.1	10531 177 4.3	4909 80 2.0	2135 36 0.9	4757 77 2.0	m 243846 337	n 62237	0
							Ame	rican R	liver							
Natomas Water Company (p)	28.8L															
Total acre-feet diverted Average cubic feet per aecond					1240 49	2930 48	2210 37	2390 39	2340 38	2160 36	1620 26	1080 18	750 12	16720 33		
San Juan Suburban Water District (p) Total acre-feet diverted Average cubic feet per second	28.8R				710 28	2330 38	3420 57	3700 60	3750 61	3230 54	2540 41	1740 29	880 14	22300 44		
							~ 1		~ ±	27		9	- 1			

abcdefghj

An additional 138649 acre-feet of water was pumped from wells. Includes double-cropped acreage. An additional 125161 acre-feet of water was pumped from wells. An additional 125161 acre-feet of water was pumped from wells. An additional 125161 acre-feet of water was pumped from wells. An additional 125161 acre-feet of water was pumped from wells. An additional 125161 acre-feet of water was pumped from wells. An additional 125161 acreage, 3259 acre-feet of water was pumped from wells. An additional 16677 acre-feet of water was pumped from wells. An additional 125161 acreage, 329 was double cropped. Of this acreage, 239 was double cropped. Of this acreage, 540 was double cropped.

				TABLE					
		DELIVERIES	FROM	CENTRAL	VALLEY	PROJECT	CANAL	LS - 1955	
(The	following	table arra	nged f	ron data	furni	shed by	U. S.	Bureau of	Reclamation

on)

	Mile	Poet	1				Dolt	veries i	n 64.00	Peat					
Water User	Prom	10	Jan.	Peb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Rater User	1.1.011		J 041.	100.	CALL .	apr.	1'sda y	J WIG	Jury	Mug.	Sept.	Uct.	hov.	Dec.	Total
							Cor	ntra Cos	ita Cana	1					
Contra Costs County Water Dist. Industrial and Municipal			1634	1589	2122	3634	3031	4228	4193	4547	4481	2696	2702	2149	37106
Agricultural			43	13	40	329	704	1381	1578	93č	572	530	104	54	6284
Total			1677	1602	2162	394-3.	3735	5609	5771	5583	5053	3226	2800	2203	×3390
							De	lta-Mend	lota Can	<u>al</u>					
Plain View Water District	8.51	20.00	0	15	E 99	1484	1466	2852	298~	2930	1527	684	93	2	14730
Hospital Water District	18.05	30.90	0	36	1563	2606	2400	4109	+562	3804	2482	1080	- 66	0	-2708
West Stanislaus Irr. Dist.	31	. 31	0	0	0	2497	0	2447	3719	2630	0	0	0	0	11293
Kern Canon Water District	31.31	35.18	0.	0	282	977	680	1165	1433	1029	551	110	10	0	¢237
Del Puerto Water District	35.73	42.08	0	81	814	1483	1131	1855	1821	1520	805	221	161	15	9907
Patterson Water District	42	.51	0	0	0	255	445	459	206	404	170	3	0	0	19-2
Salado Water District	42.10	46.00	0	0	743	1243	498	1054	1603	778	421	31	9	0	t 380
Sunflower Water District	44.23	52.02	0	10	680	1609	697	1674	2012	1648	662	187	39	0	9218
Orestimba Water District	46.83	50.66	0	0	215	1411	692	1243	1483	662	159	23	0	0	5888
Poothill Water District	51.65	57.46	0	5	402	720	563	938	1203	915	127	115	4	5	4997
Davis Water District	45.19	56.82	0	0	55	232	296	349	456	375	17	0	0	0	1780
Muatang Water District	56.80	62.67	0	0	0	56	266	887	633	663	444	49	0	0	2998
Quinto Water District	64.28	67.55	0	0	37	187		339	531	499	133	0	0	0	2170
Romero Water District	66.70	68.03	0	6	125	182	322	240	311	279	225	ń3	9	0	1702
San Luis Water District	69.21	90.57	0	225	1452	1522	1492	2138	2744	2981	1021	511	402	80	14568
Panoche Water District		25	0	1943	7201	6871	4318	809b	8875	8285	3946	2975	1295	75	53880
Eagle Pield Water Aasociation	94	26	0	0	0	118	9	248	172	258	12	0	0	0	817
West Side Golf Association	95	95	0	0	4	8	12	18	19	18	15	10	3	с	107
Oro Loma Water District	96		0	0	171	802	379	785	626	57~	50	191	99	0	3077
Widren Water Users Association	102	03	0	0	0	80	294	298	<b>2</b> 66	245	171	51	0	25	1430
Total			0	2321	14443	24343	16404	31194	35659	30497	12938	6304	2190	202	170-00
* Net Deliveries, Delta-Mendota Canal to Mendota Pool			0	12934	79524	103982	123962	149138	153011	150663	95447	57896	18383	9435	95+375
								Madera	Canal						
Madera Irrigation District	6.1	32.2	0	0	6573	6143	4786	20728	28519	26704	18 308	371	10	278	112420
Adobe Ranch	20	U	0	0	0	0	0	36	38	0	95	175	109	184	- 37
Chowchilla Water District	35	9	0	0	9019	5385	5709	1~973	24272	26026	1612	0	0	c	101512
Total			0	0	15592	11528	10495	35737	52829	52730	3~531	540	119	⇔ố2	21-569
Round Mountain Ranch	20.	00						lant-Ke	1	-					
	28		0.	0	2	5	11	18	18	24	16	12	8	0	114
Alts Irrigation District Orange Cove Irr. Dist.	35.00	54.30	0	~0	0 236	2622	0	0	0	0	0	0	1462	0	1462
City of Orange Cove	43:	24.30	0	÷0 6	230	2022	2291	5336	0361	6323	3717	1-38	521	0	28865
Stone Corral Irr. Dist.		64.40			, i i		14	25	27	30	23	19	9	1	163
Ivanhoe Irr. Dist.	56.90 65.04	69.08	0	0	115 222	940 1565	619 1246	1492 2838	1942	2192	1131	208 688	89	0	8728
Tulare Irr. Dist.	68.14	71.29	0	0	23606	1505 16810	9132	<b>300</b> 96	3259	3259 36893	1954 5552	688 0	230 0	0	15261
Exeter Irr. Dist.	72.52	80.63	0	2	109	1166	9132 1317	2434	2694		5552 1858			0	158988
Lindmore Irr. Dist.	81.17	93.20	0	2 99	2364	5802	5109	2434 8950		2702 10181		724	200	0	13206
Lindsey-Strathmore Irr. Dist.	85:		0	93	490	2545	2821	3885	~259	4374	6173 3570	2799 2267	1089	0	52378 •• 2538~
Porterville Irr. Dist.	92.12	98.13	0	157	288	522	107	1198	1160	629	363	234	1020	59 0	4724
Lower Tule Irr. Dist.	94.92	98.62	0	101	28187	16320	18681	34080	49254		303 19026	3898	0	0	211 93
Saucelito Irr. Dist.		107.37	0	16	1674	3554	1960	3004	0117	6555	-596	1218	10	0	
Terra Bells Irr. Dist.	102.		0	10	20	746	379	1273	1577	1513	1127	583 583	276	0	29_St 7599
Delano-Earlimart Irr. Dist.	107.05		0	1444	14599	14513	12111	21444	23387	20960	13182	6486	503"	1954	135717
. 46 dt 1 .	117.		0	300	0	0	0	0	0	0	0	0400	36	1954	336
San Joaquin U. D.		128.05	0	438	11939	10290	8815	1~730	19583		11-88	4268	1589	226	105890
Pacifi: Gas and Electric Co.	151.		0	0	0	0	0	50		301	71	0	71	226	11:3
Tutal			0	2595	83855	77411		134514	101787			24945	12259	2400	8010*1

Includes transported water from Wutchumna Ditch.
 Prom head of canal.
 This item does not include deliveries to Panoche Water District etc., via Mendota Pauland C.C.L.D. Iside na al.

AVERAGE MONTHLY DIVERSIONS IN PER CENT OF SEASONAL 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	1946 to 1955	0.7	8.9	17.7	18.3	20.7	19.4	10.4	3.9
Feather River - Oroville to Mouth	1946 to 1955	0.3	6.8	18.9	19.7	20.3	18.0	10.7	5.3
Yuba River - Smartville to Mouth	1946 to 1955	0.1	6.0	16.6	17.2	18.1	17.6	14.1	10.3
American River - Fair Oaks to Mouth	1946 to 1955	1.0	2.3	7.8	21.1	25.0	21.1	15.4	5.4
DELTA UPLANDS									
Old San Joaquin River	1946 to 1955	4.0	11.5	16.2	17.0	19.2	17.0	10.6	4.5
Tom Paine Slough	1946 to 1955	3.5	11.1	13.7	15.5	19.1	18.9	13.4	4.8
San Joaquin River - Vernalis to Stockton	1946 to 1955	5.6	14.1	13.9	15.0	20.0	17.2	10.1	4.1
SAN JOAQUIN VALLEY									
San Joaquin River - Fremont Ford to Vernalis	1946 to <b>1</b> 955	5.9	14.0	14.7	15.5	19.7	17.0	10.4	2.8
Merced River - Snelling to Mouth	1946 to 1955	3.0	8.6	13.1	17.3	22.2	18.6	12.4	4.8
Tuolumne River - Snelling to Mouth	1946 to 1955	5.2	8.9	13.5	16.7	19.1	19.0	12.2	5.4
Stanislaus River - Goodwin Dam to Mouth	1946 to 1955	3.8	10.2	14.4	16.4	18.7	18.2	12.2	6.1

#### TABLE 206

### ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET $1946\ to\ 1955$

SACRAMENTO RIVER - SACRAMENTO TO REDDING

	Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
	1946	7968	187267	333991	328508	341952	326956	179671	71666	1777979
	1947	2743	<b>1</b> 67131	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	<b>2018</b> 164
	1954	2935	96488	402233	407508	448928	409637	242008	81313	2091050
	1955	30835	247756	360053	378179	417899	395677	183419	81863	2095681
Average	Acre-Feet	12680	166698	331542	342129	387153	363764	195621	73398	1872985
Average	c.f.s.	206	2802	5392	5750	6296	5916	3288	1194	3854
	Diversion in of seasonal	0.7	8.9	17.7	18.3	20.7	19.4	10.4	3.9	

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1946 to 1955

FEATHER RIVER - OROVILLE TO MOUTH

	Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
	1946	47	53967	156398	140210	145235	132948	82010	33985	744800
	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	142040	94979	. 48159	757142
	1955	7754	92377	139687	140112	133952	118221	61151	39741	732995
Average	Acre-Feet	2070	4 <b>818</b> 6	134792	139903	144857	128283	76121	37844	712056
Average	c.f.s.	34	810	2192	2351	2356	2087	1279	615	1465
	Diversion in t of seasonal	0.3	6.8	18.9	19.7	20.3	18.0	10.7	5.3	

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

#### TABLE 208

# ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET $194\mathrm{G}$ to 1955

YUBA RIVER - SMARTVILLE TO MOUTH

Year (a	a) Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
• <b>19</b> 46	0	7222	15231	15845	17082	16356	13940	13010	<b>9868</b> 6
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	<b>19</b> 416	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
<b>1</b> 954	15	0	23630	26960	27574	26512	21088	14784	140563
1955	926	13519	20780	27266	31457	26823	14126	8246	143143
Average Are-F	reet 98	7107	19701	20408	21499	20790	16674	12196	118473
Average c.f.s.	2	119	320	343	350	338	280	198	244
Monthly Divers per cent of se		6.0	16.6	17.2	18.1	17.6	14.1	10.3	

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### ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1946 to 1955

AMERICAN RIVER - FAIR OAKS TO MOUTH

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1946	0	10	228	1022	1104	889	766	105	4124
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	<b>1</b> 448	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
Average Acre-Feet	52	122	409	1101	1355	1101	803	283	5226
Average c.f.s.	1	2	7	19	22	18	13	5	11
Monthly Diversion in per cent of seasonal	1.0	2.3	7.8	21,1	25.9	21.1	15.4	5.4	

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

#### TABLE 210

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1946 to 1955 OLD SAN JOAQUIN RIVER (a) - DELTA UPLANDS

Year(b)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1946	4080	13613	16225	14712	16987	16229	8565	3686	94097
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	<b>1</b> 6134	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
Average Acre-Feet	4345	12638	17727	18682	21006	<b>1</b> 8581	11652	4968	109599
Average c.f.s.	71	212	288	314	342	302	196	81	226
Monthly Diversion in per cent of seasonal	4.0	11.5	16.2	17.0	19.2	17.0	10.6	4.5	

Excluding diversion by Delta-Mendota and Contra Costa Canals. See 1946 Water Supervision Report for prior years.  $\binom{a}{b}$ 

## ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1946 to 1955

TOM PAINE SLOUGH - DELTA UPLANDS

	Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
	1946	874	2588	2756	3145	3324	3732	2490	798	19707
	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
Average	Acre-Feet	740	2362	2911	3284	4055	4016	2852	1009	21229
Average	c.f.s.	12	40	47	55	66	65	48	16	44
	Diversion in of seasonal	3.5	11.1	13.7	15.5	19.1	18.9	13.4	4.8	

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

#### TABLE 212

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1946 to 1955 SAN JOAQUIN RIVER-DELTA UPLANDS - STOCKTON TO VERNALIS

Year	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1946	524	13974	10:81	9238	15347	13071	6,27	2875	77159
1947	5322	13358	14176	11656	15454	14698	7794	2053	84481
1948	6012	4564	9919	8251	13912	13356	7911	2682	LÉ607
1949	1227	13434	11893	13141	14933	12382	7857	3768	78ē35
1950	5746	13092	12205	11860	17047	13272	7855	3558	84035
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
Average Acre-Feet	4436	11209	10988	11886	15821	13051	8000	3261	79252
Average c.f.s.	72	188	179	200	257	222	134	53	103
Monthly Diversion in per cent of seasonal	5.6	14.1	13.9	15.0	20.0	17.2	10.1	4.1	

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1940 to 1955

SAN JOAQUIN RIVER - VERNALIS TO FREMONT FORD BRIDGE

	Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
	1946	6967	21399	24901	23751	32002	28792	17020	5144	160042
	1947	11658	31645	28072	27725	34079	27812	17318	3049	<b>181</b> 358
	1948	12902	18449	21675	<b>1</b> 5491	28902	27906	15977	3425	144785
	1949	852	27448	26456	27787	33889	26998	1837	5054	166860
	1950	15118	26342	25420	26245	33028	28227	15748	4963	175091
	1951	4051	30310	24320	27237	35082	30422	16901	4335	172656
	1952	1296	7960	28045	25035	<b>312</b> 66	28604	18859	5647	<b>1</b> 47312
	1953	19238	29188	24061	30965	41370	34336	21614	5175	205947
	1954	13925	27822	28115	32025	37998	32287	21503	6587	200862
	1955	16991	24516	<b>259</b> 97	32704	36571	32157	18912	5308	193156
Average	Acre-Feet	10300	24508	25712	27017	34425	29754	18223	4868	174807
Average	c.f.s.	168	412	418	454	560	484	306	79	360
	Diversion in t of seasonal	5.9	14.0	14.7	15.5	19.7	17.0	10.4	2.8	

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

#### TABLE 214

ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1946 to 1955 MERCED RIVER - SNELLING TO MOUTH

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1946	231	1380	1595	2393	3608	2787	1720	084	14398
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	5670	3652	2998	1778	25637
1950	676	2086	4050	4793	4809	433€	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	3087	3293	3928	6343	4975	3310	1681	29699
1954	<b>1</b> 115	2515	3296	4850	6950	4491	3677	2361	29255
1955	985	2814	3379	5296	6 <b>08</b> 6	6044	4374	1356	30334
Average Acre-Feet	691	1998	3048	4031	5150	4324	2873	1122	23237
Average c.f.s.	11	34	50	t-8	84	70	48	18	48
Monthly Diversion in Per cent of seasonal	۰.٤	8.6	13.1	17.3	22.2	18.6	12,4	4.8	

# ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1946 to 1955

TUOLUMNE RIVER - LA GRANGE DAM TO MOUTH

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1946	216	565	765	734	940	889	559	254	4922
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	<b>8</b> 66	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
Average Acre-Feet	420	724	1097	1358	1555	1544	993	434	8125
Average c.f.s.	7	12	18	23	25	25	17	7	17
Monthly Diversion in per cent of seasonal	2.ر	8.9	13.5	16.7	19.1	19.0	12.2	5.4	

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

#### TABLE 216

# ANNUAL COMPARATIVE MONTHLY DIVERSIONS IN ACRE-FEET 1946 to 1955

STANISLAUS RIVER - GOODWIN DAM TO MOUTH

Year(a)	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Seasonal Diversions
1946	862	3316	3780	4563	5046	4832	2754	1655	26808
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	<b>1</b> 163	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
Average Acre-Feet	1333	3601	5043	5762	6562	6410	4293	2155	35159
Average c.f.s.	22	61	82	97	107	104	72	35	72
Monthly Diversion in per cent of seasonal	3.8	10.2	14.4	16.4	18.7	18.2	12.2	6.1	

					TABLE 2	17					
CC	OMPARATIVE	SEASONAL	DIVERSIONS	AND	ACREACES	IRRIGATED	_	SACRAMENTO	RIVER	_	1946-1955

	River Sections									
Year	Sacramento	Verona	Knights Ldg.	Wilkina Slu	Colusa	Butte City	Red Bluff	Total		
	to	to	to	to	to	to	to	Sacramento		
	Verona	Knights Ldg.	Wilkins Slu	Colusa	Butte City	Red Bluff	Redding	to Redding		
1946 Seasonal diversion in acre-feet Average cubic feet per second Acreage irrigated - general Acreage irrigated - rice Acre-feet per acre (a)	185716 382 10722 17187 5.7	38680 80 2024 2485 8,6	159077 327 10923 13995 6.4	402022 827 30861 30828 6,5	98953 204 8719 6445 6.5	729606 1502 38934 53195 7.9	163925 337 15373 10.5	1777979 3659 117556 124135 7.2		
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 Average cubic feet per second Acreage irrigated - general Acreage irrigated - rice Acre-feet per acre (a)	182069 375 14341 15606 5.1	69658 143 5511 7337 5.4	189604 390 12431 14891 6.9	396587 816 37584 35148 5.5	96498 199 6532 8080 6,6	758697 1561 48721 56207 7.2	179750 370 18375 9.6	1872863 3854 143495 137269 6,6		
1950 Seasonal diversion acre-feet	158567	60217	186229	370134	87246	751503	180264	1794160		
Average cubic feet per aecond	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	14420	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 Average cubic feet per second Acreage irrigated - general Acreage irrigated - rice Acre-feet per acre (a)	186288 383 13158 16532 5.2	87880 181 5394 9840 5.8	191601 394 14449 14631 6.6	469457 966 34667 40093 6.3	139848 288 10712 19644 4.6	831264 1710 38114 84198 6,8	184712 380 23312 7.8	2091050 4303 139806 184938 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		
Average 1946-1955		(5)		ka os Ca						
Seasonal diversion acre-feet Average cubic feet per second Acreage irrigsted - general Acreage irrigsted - rice Acre-feet per acre (a) Fer cent of total diversion	165350 340 15058 14299 4.6 8.8	65810 135 4596 5230 6.7 3.5	174992 360 13196 13625 6.5 9.4	410280 844 35837 33559 5.9 21.9	110413 227 9416 12175 5.1 5.9	773563 1592 45130 59489 7.4 41.3	172577 355 19846 0 8.6 9.2	1872985 3854 143079 138377 6.5		

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

#### TABLE 218

#### RICE ACREACE IN CALIFORNIA

A comparison of total rice acreage in California with rice acreage irrigated from the Sacramento and San Joaquin River Systems covered by Sacramento-San Joaquin Water Supervision

Year	Total in State (a)	Irrigated from Sacramento & San Joaquin River Syatems (b)	Ratio in Per Cent (c)	Year	Total in State (a)	Irrigated from Sacramento & San Joaquin River Syatems (b)	Ratio in Per Cent (c)	Year	Total in State (a)	Irrigated from Sacramento & San Joaquin River Systems (b)	Ratio in Per Cent (c)
1924 1925 1926 1927 1928 1929 1930 1930 1931 1932 1933 1934	90000 103000 149000 132000 95000 110000 125000 110000 108000 108000	89000 95000 123000 101000 74000 88000 126000 91000 87000 92000	99 92 87 77 78 80 100 83 81 85	1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945	100000 138000 125000 125000 120000 118000 153000 212000 237000 237000 239000	78000 104000 95000 104000 124000 120000 159000 186000 200000 187000	78 775 767 80 788 781 81 78	1946 1947 1948 1949 1950 1951 1952 1953 1954 1955	255000 250000 298000 240000 319000 335000 429000 485000 340000	212000 215000 236000 286000 245000 245000 297000 327000 242000	83 86 84 79 78 75 73 69 67 71

(a) As reported by Pederal-State Crop Reporting Service.
 (b) Does not include the rice arrage of Merced, Turlock, Modesto, Waterford, Oakdale, and South San Joaquin Irrigation Districta, and Friant-Kern and Madera Canals. Prior to 1947, the rice acreage in the reach from Fremont Ford to Friant Dam of the San Joaquin River was not included.

(c) Ratio of rice acreage in Sacramento and San Joaquin River systems to total rice acreage in State.

			SACRA	CONSUMP MENTO-S Acre-Fe	AN JOA	QUEN DEL							
Classification	Jan.	Peb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Sudan	.05	.05	.10	.10	.15	.30	.30	.25	.20	.10	.10	.10	1.8
Misrellane us Pasture	.05	.10	.15	.40	.50	.65	.70	.70	.50	.20	.10	.10	4.15
Alfalfu	.07	.08	.10	.30	.+0	.50	.55	.55	.50	.20	.10	.07	3.51
Rice	.05	.05	.10	.15	.90	1.15	1.25	1.20	.35	.09	.10	.10	59
Letrs	.06	.08	.08	.16	.20	.14	.24	.58	.37	.09	.07	.05	2.12
C rr. and Milo	.04	.04	.04	.08	.10	.24	.70	.60	.40	.10	.10	.07	2.51
Grain and Hay	.0~	.0~	.07	- ~0	.60	.30	.14	.23	.21	.1~	.07	.05	2.29
Peas	.10	.10	.20	- 30	.10	.05	.14	.13	.11	.09	.10	.10	1.52
Safflower and Sunflower	.05	.05	.10	- 30	.40	.50	.20	.13	.11	.09	.10	.10	2.13
Sugar Beeta	.06	.08	.08	.13	.32	.51	.61	•53	.20	.13	.10	.07	2.82
Asparagas	.05	.05	.05	.05	.08	.14	.40	•68	.55	2	.12	.10	2.69
Celery	.04	.04	.04	.08	.10	.10	.10	•20	.25	.30	.20	.05	1.50
Onions Potatoes Trmatoes	.04 .05	.04 .08 .05	.08 .08 .10	.13 .16 .10	.27 .15 .10	.49 .38 .25	. \$3 .52 .35	.20 .30 .60	.16 .15 .45	.13 .09 .35	.10 .07 .10	.07 .05 .10	2.14 2.09 2.60
Seed and Miscellaneous Truck	.06	. 08	.08	.10	.25	.50	.50	.50	• 35	.10	.10	.07	2.69
Pruit and Nuts	.04	. 04	.04	.18	.32	.50	.57	.40	• 23	.07	.07	.05	2.51
Grapes	.04	. 09	.04	.09	.20	.35	.50	.35	• 22	.05	.07	.05	2.C5
Native Vegetation - Lush	.12	.14	.21	.31	.~0	. 59	.68	.57	.39	.29	.20	.12	+.02
Medium	.12	.16	.22	.28	.31	. 40	.45	.38	.28	.24	.19	.13	3.15
Dry	.13	.17	.23	.24	.22	. 21	.22	.20	.17	.18	.18	.14	2.29
Fallow and Bare	.04	.04	.04	.08	.10	.13	.14	.13	.11	.09	.07	.05	1.02
Idle Crop Land	.06	.08	.08	.16	.20	.26	.28	.24	.16	.13	.10	.07	1.82
Duck Fonda	.05	.05	.10	.10	.10	.05	.14	.13	.60	.60	.30	.10	2.32
Urban	.06	.08	.08	.16	.20	.20	.21	.20	.16	.13	.07	.05	1.60
Tule and Swamp	.13	.18	.34	.51	.70	.79	.87	.77	.6-	.49	.27	.13	5.82
Levee and Berm	.10	.10	.15	.20	.25	.30	.35	.35	.30	.20	.10	.10	2.50
Water Surface	.06	.10	.20	.33	.50	.58	.65	.57	.44	.27	.12	.06	3.88

TABLE 220

		CONSUN	APTIVE (		WATER I antitie:			RVICE A	REA - 1	955				
Classification	Acreage	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Sudan	991	50	50	99	99	149	297	297	248	198	99	99	99	1784
Miscellaneous Pasture	62147	3107	6215	9322	24859	31074	40396	43503	43503	31074	12429	6215	6215	257912
Alfalfa	62276	3737	4982	6228	18683	24910	31138	40479	34252	31138	12455	6228	4359	218589
Rice	5765	288	288	576	865	5188	6630	7206	6918	2018	519	576	576	31648
Beans	3911	235	313	313	626	782	548	939	2268	1447	352	274	196	8293
Corn and Milo	82158	3286	3286	328€	6573	8216	19718	57511	49295	32863	8216	8216	5751	206217
Grain and Hay Feas Safflower and Sunflower	95708 97 5623	3828 10 281	3828 10 281	6700 19 562	38283 29 1687	57425 10 2249	28712 2812	13399 14 1125	22013 13 731	20099 11 619	13399 9 506	6700 10 562	4785 10 562	219171 150 11977
Sugar Beets	34519	2071	27·2	2762	4+87	11046	17605	21057	18295	6904	4487	3452	2416	97344
Asparagus	82830	4142	4142	4142	4142	6626	11596	33132	56324	45556	34789	9940	8283	222814
Celery	1432	5	57	57	114	143	143	143	286	358	430	286	72	2146
Onions	1217	49	49	97	158	329	596	523	243	195	158	122	85	2604
Potatoes	8539	512	€83	683	1366	1281	3245	4440	2562	1281	769	598	-27	17847
Tomatoes	40810	2040	2040	4081	4081	4081	10202	14284	24486	18364	14284	4081	-081	106105
Seed and Misc. Truck (a)	6423	385	514	514	042	1606	3212	3212	3212	2248	C+2	642	450	17279
Prult and Nuts	22890	910	916	916	4121	7327	11448	13051	9158	5266	1603	1603	1145	57470
Orapes	765	31	69	31	69	153	268	383	268	169	38	54	38	1571
Native Vegetation - Lush Med. Dry	110- 9359 380-3	132 1124 494:	155 1+99	232 2061 8750	342 2623 9130	442 2904 8369	651 3748 7989	751 4216 8369	629 3560 7609	431 2623 6467	320 22+9 68+8	221 1780 68-8	132 1218 5326	4 <b>~38</b> 29605 87118
Fallow and Bare Land	2005	80	00	80	160	200	261	281	261	221	180	140	100	20-4
Idle Crop Land	3213	193	257	257	514	€~3	835	900	771	514	418	321	225	58-8
Du k Ponds	1 49	82	82	165	165	1€5	82	231	214	989	989	495	165	382-
T tal Agricultural	573491	31582	39025	51933	123818	175318	202137	269446	287119	211053	116188	59-63	40710	1613798
Urbar.	2008	1205	1607	1607	3214	4017	4017	4218	+017	3214	2c11	1406	1004	3213"
Tule and Swamp (b)	11975	1 57	2150	-072	C107	8382	9460	10418	9221	7664	5868	3233	1557	9695
Levee and Bern	19245	1924	1924	2887	3849	4511	5774	6736	6736	5774	3849	1924	1924	-8112
Water Surface (c)	49309	2959	4931	9812	16272	24854	28599	32051	28106	21696	13313	5917	2959	191319
T al Nonagricultural	100615	£45	10618	18425	29442	41864	47850	53-23	-8080	38348	25641	12-30		1+1263
Grand Total	1=.101	+3227	3643	141	153260	21-182	249987	322869	35199	249401	141829	71943	54160	1955061

(a) Includes ar acres f n nsegregated rops. b) Includes islands in small channels. In ludes interi r and exteri r water surface.

# MAXIMUM RECORDED SALINITY AT PRESENTLY INDICATIVE BAY AND DELTA STATIONS

(Releases of stored water from Shasta Lake commenced in 1944.)

	· · · ·											
YEAR	1931	1934	1938	1939	1944	1947	1950	1951	1952	1953	1954	1955
Sacramento-San Joaquin Runoff in per cent of normal (a)	33	47	184	48	61	59	83	131	164	104	92	62
Station (b)		Maxim	um rec	orded s	alinit	ty in p	arts o	of chlo	ride p	er mil	lion	
					S	San Pab	lo Baj	7				
Point Orient	18700	18400	17000	19200	17300	18800	17600	17700	16700	16900	19320	20000
Point Pinole						16800	15400	15500	14200	13300	15600	19000
Point Davis	18100	18000	*14600	18400	15200	16500	14400	14600	12700	14400	15800	12900
Grand View	18700				15300	18000	13800	15900	12100	14000	15500	16700
Crockett						17900	15200	15100	13200	14680	16000	16600
					Cai	quinez	Strai	t				
Benicia					13900	15100	12500	12200	10400	12020	14000	15100
Martinez	16900	16400	11600	16400		13400	11500	10100	8900	10500	11800	11900
						Suisun	Bay					
West Sulsun						13500	10300	10800	7900	9940	12800	12600
Port Chicago						12400	10100	8700	6900	8940	10900	12500
Innisfail Ferry	14000	12600	3300	13600	7900	8200	4700	4400	4200	6430	6900	5780
O & A Ferry	13900	12000	2560	11800	7300	6100	4800	4400	2800	3640	5670	6400
Pittsburg						5000	2200	2400	1200	1830	4580	7800
					Sacra	nento F	liver I	Delta				
Collinsville	12600	10800	860	10400	4700	4500	2800	1750	783	2200	4520	3880
Emmaton (c)										(d)	1380	1080
Threemile Slough Bridge	8600	6600		5900	1610	1250	150	600	175	155	818	635
Rio Vista Bridge	7400	5200		4050	550	270	200	70	175	33	126	158
Isleton Bridge	6350	3100		2500	50	50	50	60	125	29	28	23
					San Jo	baquin	River	Delta				
Antioch	12400	9600	510	9200	4000	4700	1330	970	354	1440	3430	3320
Millers Harbor						3000	1390	(d)	(d)	360	1970	2360
Jersey Island										490	1480	1130
Threemile Slough										49	960	428
Oulton Point										65	395	376
San Andreas Landing						1				61	123	98
Opposite Central Landing	4250	*1250	100	1380	200	200	80	80	250	44	75	36
Dutch Slough	5100	2800	110	2250	690	840	230	170	88	114	688	454
Webb Ferry										160	652	331
East Contra Costa I. D.		730		320	140	190	200	190	152	167	200	196
Clifton Court Ferry	1300	400		190		160	170	120	112	122	160	146
Mossdale Bridge	120	250	120	160	130	180	170	190	122	194	209	224
Vernalis						*180	160	220	121	205	198	231
					1	1			L			

* Estimated.
a Normal taken as 50-year (1905-1955) mean annual unimpaired flow (Oct.-Sept., Incl.) at foothill stations of major tributaries.
b For location see Plate 3.
c Previously listed as Opposite Toland Landing.
d Record incomplete.

#### DESCRIPTION OF ACTIVE SALINITY OBSERVATION STATIONS - 1955

(Refer to previous Water Supervision Reports for description of stations which have been discentinued.)

Station	Miles from Goldan Gate (a)	Tim Inter (E Hours	val	Location
				SAN FRANCISCO, SAN PABLO, AND SUISUN BAYS
Point Orient	12.3	2	20	North and of San Prancisco Bay, sast shore, one-half mile south of Point San Pablo Wharf of Standard Oil Company.
Point Pinola	19.0	2	50	South shore of San Pablo Bey, at Point Pinole on wharf of Atlas Powder Company.
Point Davis	25.2	3	15	East and San Pablo Bay, south shore, Oleum Wharf of Union Oil Company.
Grand Viaw	25.2	3	15	Northwast shore of San Pablo Bay at mouth of Petaluma Creak.
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	Eest and of Carquinez Strait, north shore, l.1 mile west of Southern Pacific Company railroad bridge at Bonicia Arsenal.
Martinez	32.7	3	50	East end of Carquinez Strait, south shore, 1.0 mile west of Southern Pecific Company railroad bridge at Municipal Ferry Slip. (Bulls Head Point.)
Wast Suisun	37.0	4	10	West end of Suisun Bay, north shore, 2.5 miles northeast of Southern Pacific railroad bridge at service piar of U.S. Maritime Commission, Reserve Pleet mooring area.
Innisfeil Farry	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.
0 & A Ferry	46.5	4	40	Upper and Suisun Bay betwaan Mallard Station and Chippe Island at Secremento Northern Railroad Farry Crossing.
Pittsburg	48.0	5	00	East and 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 (Opp. Toland Landing)	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 northarly limits of Rio Vista.
Islaton Bridga	68.7	6	30	Sacramento River, one mile upstream from Islaton.
		1		SAN JOAQUIN RIVER DELTA
Antioch	54.9	5	55	San Joaquin River at City Water Works pumping plant.
Millars Harbor	58.2	6	10	South shore San Joaquin River at Antioch Bridge.
Jersay Island	61.4	6	20	San Joaquin River, left bank, one mile below mouth of False River.
Threemils, Slough	64.2	6	30	Threemile Slough, west bank, at 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	Mokelumna River on Andrus Island diractly opposite Central Landing on Bouldin Island.
Dutch Slough	73.0	7	05	At Bathel Island Bridga.
Webb Ferry	68.0	6	40	Falsa River at junction with Fisherman's Cut.
East Contra Costa I. O.	86.7	8	20	Indian Slough at East Contra Costa Irrigation District Pumping Plant.
Clifton Court Farry	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.
Vernalia (Durham Farry 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 Oolden Oate and time for taking samples at station.

Samples taken by local observers approximately one and one-half hours after high high tide Salinity expressed in parts of chloride per million parts of water

	January - 1955									
Station	2	6	10	14	18	22	26	30		
			San Fran	ncisco, San	Pablo, and S	uisun Bays				
Point Orient Point Pinole Point Davis	14500 9700	13900 9660	12000 8900	13600 7880	14100 8400	11900 5480	12000	13300		
Grand View Crockett Benicia	(b)7940 (d)7740 6320	7720 7820 5840 2640	7620 4880	6980 6720 4900	6460 8100 6300	5320	5000 (ъ)5760 2800	8600 (b)4500 7320 5840 6040		
Martinez West Suisun Innisfeil Ferry	1720		(а)1740 (а)1440	(a)2820 (a)1620	3620 (a)2740 1620	2440 2460 1460	2120 308 1380	6040 3240 672		
Port Chicago O & A Ferry Pittsburg	3780 328 92	824 (*)60 (b)44	2190 80	1220 140 144	2980 Цо (ъ)52	(a) 308 28	248 44	2920 36 48		
				Sacramento						
Collinsville Emmaton (**) Thraemile Slough Bridge	24 20 20	48 20	(a)24 20	60 20 16	16 24	24	24 24	144 24 20		
Rio Vista Bridge Isleton Bridge	16 16	16 8	16 12	16 16	24 20 10	20 16 16	20 16	20 20 20		
					n River Dalt	1				
Antloch Millers Harbor Jarsay Island	60 (*)48	40 52	44 48	48 56	48 60	56 64	60 (a)48	52 64		
Jarsey Island Thraamlle Slough Oulton Point	կե	24 44	(a)24 (a)48 48	32	40 44	44 52	(a)40 (a)40	44 24		
San Andreas Landing Opp. Central Landing Dutch Slough	40 20 64		(a)20 68	28 36 76	24 24 84	52 44 12 (a)108	36 (a)16 104	44 24 24 24 26 8		
Wabb Ferry Holland Tract		76 (a)44	52	(c)52	(ъ)56	56	(a)52			
East Contra Costa Irrigation Dist. Clifton Court Ferry	196 64	(b)188	(a)180	164	172	(a)144	(a)152	160		
Mossdale Bridge Vernalis (g)	(c)64	(a)56	(а)72 (ъ)64	76 76	(а)40 (ъ)48	(а)48 (а)44	(a)88 (e)88	92 (f)84		
			(=)=+		(0)40	(0)44	(0)00	(1)04		
					18ry - 1955	(~/++	(0)00	(1)04		
				Febru		uisun Eays		(1)04		
Point Orient	14400	14700	San Fran	Febru cisco, San 1 13200	18 <b>ry -</b> 1955 Pablo, and \$ 13800	uisun Bays 15000	14500	(1)04		
Point Orient Point Pinole Point Davis Grand View	7760	8620 5860	San Fran 9180	Febru cisco, San 1 13200 8280 5960	18ry - 1955 Pablo, and \$ 13800 8900	15000 15000	14500	(1)04		
Point Orient Point Pinole Point Davis Grand View Crockstt Benicia	7760 7840 6400	8620 5860 8260 5160	San Fran 9180 5880 7520 (a)4100 (a)4100	Febru 13200 8280 5960 (a)5580 4520 7760	18 <b>ry -</b> 1955 Pablo, and \$ 13800	uisun Bays 15000	14500 10700 7680 7840 6740 6260	(1)04		
Point Orient Point Pinole Point Davis Grand View Crockatt Benicis Martinez West Suleun	7760 7840 6400 4160 4740 1060	8620 5860 8260 5160 3380 3520 1100	San Fran 9180 5880 7520 (a)4100 2500 1840 960	Febru cisco, San 1 13200 8280 5960 (a)5580 4520 7760 (*)2600	18ry - 1955 Pablo, and & 13800 8900 14980 7100 6680 14710 1010	11sun Eays 15000 10700 7100 (b)9280 6840 5140 860	14500 10700 7680 9840 6740 6260 3920 1060	(1)04		
Point Orient Point Pinole Point Davis Grand View Grockstt Benicis Martinez West Suleun Innisfail Ferry Port Chicago O & A Ferry	7760 6400 4160 4740 1060 2940 178	8620 5860 8260 5160 3380 3520	San Fran 9180 5880 7520 (a)4100 2500 1840	Febru 13200 8280 5960 (a)5580 4520 7760	18 <b>ry - 1955</b> Pablo, and \$ 13800 8900 1980 7400 6680 4740	ulsun Bays 15000 10700 7100 (b)9280 6840 5140	14500 10700 7680 9840 6740 6260 3920	(+)))+		
Point Orient Point Pinole Point Davis Grand View Crockstt Benicia Martinez West Sulsun Innisfail Ferry Port Chicago	7760 7840 6400 4160 4740 1060 2940	8620 5860 8260 5160 3380 3520 1100 2520	San Fran 9180 5880 7520 (a)4100 2500 1840 960 1720	Febru cisco. San 1 13200 8280 5960 (a)5580 (4)550 7760 (*)2600 (*)2600 (*)2600 (*)760 2760 2760 2760 2760	18ry - 1955 Pablo, and & 13800 8900 4080 7400 7400 6680 4740 1040 1760 599	11500 Eays 15000 10700 7100 (b)9280 6840 5140 860 2980 356 62	14500 10700 7680 6740 6740 6260 3920 1060 3620 266	(1)04		
Point Orient Point Pinole Point Davis Grand View Grockstt Benicis Martinez West Suleun Innisfail Ferry Port Chicago O & A Ferry Pittsburg Collinsvills	7760 7840 6400 4160 4740 1060 2940 178 73	8620 5860 8260 5160 3380 3520 1100 2520	San Fran 5880 7520 (a)4100 2500 1840 960 1720 59	Febru cisco. San 1 13200 8280 5960 (a)5580 1520 7760 (a)760 (a)760 (a)760 2760 184 359 Sacramento	lary - 1955 Pablo, and S 13800 4980 4080 400 6680 4740 1040 1760 599 149 River Delta 86	uisun Eays 15000 10700 7100 (b)9280 6840 5140 860 2980 2980 356 62 (b)35	14500 10700 7680 9840 6740 6260 3220 1060 3620 266 (b)293 42 (a)23			
Point Orient Point Pinole Point Davis Grand View Grockstt Benicis Martinoz West Suleun Innisfail Ferry Port Chicago O & A Ferry Pittsburg Collinsville Emmaton (**) Threemile Slough Eridge	7760 7840 6400 1740 1960 2940 178 73	8620 5860 5160 3390 3520 1100 2520 69	San Fran 9180 5880 7520 (a)4100 2500 1840 960 1720 59 59 40 (a)21 22 20	Febru cisco. San 1 13200 8280 5960 (a)5580 4520 (a)760 7760 7760 (a)760 (a)760 (a)760 (a)760 184 359 Sacramento 27 20 21 20	lary - 1955 Pablo, and S 13800 8900 4980 4980 4980 4740 1760 1760 1760 1760 1760 1760 1760 2599 149 River Delta 86 22 26 17	ulsun Eays 15000 10700 7100 (b)9280 6840 5140 860 2980 356 62 (b)35 21 16	14500 10700 7680 8740 6740 6740 1060 3920 1060 3620 266 (b)293 42 (a)23 14 11			
Point Orient Point Pinole Point Davis Grand View Crockett Benicia Martinez West Suleun Innisfail Ferry Port Chicago O & A Ferry Pittaburg Collinavills Emmaton (##)	7760 7840 6400 4160 4740 1060 2940 178 73	8620 5860 5160 3350 1100 2520 69 37 (*) 35	San Fran 5880 7520 (a)4100 960 1720 59 (a)24 (a)24 22	Febru cisco. San 1 13200 8280 5960 (a)5580 (a)5580 (a)760 (a)760 (a)760 (a)760 (a)760 (a)760 (a)760 (a)760 2760 286 2760 2760 2760 2760 2760 216 200 184 359 Sacramento 277 200 216 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 184 200 200 200 200 200 200 200 20	lary - 1955 Pablo, and S 13800 8900 4980 7400 6680 4740 1760 1760 599 149 River Delta 86 22 26 26 17 14	ulsun Eays 15000 10700 7100 (b)9280 6840 5140 860 2980 356 62 (b)35 21 16 8	14500 10700 7680 7680 6740 6260 3020 1060 3620 266 (b)293	(1)04		
Point Orient Point Pinole Point Davis Grand View Crockett Benicia Martinez West Suleun Innisfail Ferry Port Chicago O & A Ferry Pittaburg Collinsville Emmaton (**) Threemile Slough Eridge Rio Vista Eridge Isleton Bridge Antioch	7760 7840 6400 4160 1060 2940 178 73 24 29 24 22 22	8620 5860 3150 3350 1100 2520 69 37 (*)35 16 16	San Fran 9180 5880 7520 (a)4100 2500 1840 960 1720 1720 59 1720 59 (a)24 22 20 13	Febru cisco. San 1 13200 8280 5960 (a)5580 (a)5580 (a)760 (*)2600 (a)760 (*)2600 (a)760 2760 184 359 Sacramento 27 27 20 18 359	lary - 1955 Pablo, and & 13800 4980 7400 6680 1760 1760 1760 1760 1760 2599 149 River Delta 86 22 26 17 14 n River Delt	ulsun Eays 15000 10700 (b)9280 6640 6640 2980 356 356 356 356 (b)35 21 16 8 8 8	14500 10700 7680 7840 6740 6740 6220 3020 2266 (b)293 (a)23 14 11 11 9 65	(*)**		
Point Orient Point Pinole Point Davis Grand View Crockstt Benicis Martinez West Suleun Innisfail Ferry Port Chicago O & A Ferry Pittaburg Collinsville Emmaton (**) Threemile Slough Bridge Rio Vista Eridge Isleton Bridge Antioch Millers Harbor Jersey Island	7760 7840 6400 4160 1060 1060 178 73 73 52 24 24 22 24 22	8620 5860 5160 3390 3520 1100 2520 69 (*) 35 16 16 16 16	San Fran 9180 5880 7520 (a)4100 960 1720 1720 59 (a)21 (a)21 20 13 53 53 54 25	Febru cisco. San 1 13200 8280 5960 (a)5580 4520 (a)760 (a)760 (a)760 (a)760 (a)760 (a)760 (a)760 2760 184 359 Sacramento 27 20 21 20 18 Sacramento 53 49	lary - 1955 Pablo, and S 13800 4980 4080 400 6680 4740 1040 1760 170 149 River Delta 86 22 26 17 14 17 14 17 14 53	11sun Eays 15000 10700 (b)9280 684,0 514,0 8600 29800 356 62 (b)35 21 16 8 8 49 49 31	14500 10700 7680 7680 6440 6260 3020 3620 3620 3620 (b)293 (a)23 (a)23 14 11 9 (c)52 (c)52	(2)04		
Point Orient Point Pinole Point Davis Grand View Crockett Benicia Martinez West Suleun Innisfail Ferry Port Chicago O & A Ferry Pittaburg Collinsville Emmaton (4*) Threemile Slough Bridge Ho Vista Eridge Isleton Bridge Antioch Millers Harbor Jersey Island Threemile Slough Outon Point	7760 7840 6400 4740 1060 2940 178 73 73 52 24 24 22 22 48 56 40 48	8620 5860 3350 3520 1100 2520 69 37 (*)35 16 16 16 47 (a)57 32 45 43	San Fran 9180 5880 7520 (a)4100 960 1720 1840 1720 120 122 20 13 54 25 41 25 41 39	Febru cisco. San 1 13200 8280 5960 (a)5580 (a)5580 (a)760 (a)760 (a)760 (a)760 (a)760 (a)760 (a)760 2760 184 359 Sacramento 27 20 21 20 18 Sar Joaqui 53 49 29 29 20	lary - 1955 Pablo, and S 13800 4980 4980 4980 4980 4980 4980 4980 4	(b)35 21 (b)35 22 (b)35 280 (b)280 6840 5140 860 2880 356 62 (b)35 21 16 8 8 8 59 49 49 31 42 45	14500 10700 7680 7680 7680 1060 3620 1060 3620 266 (b)293 (a)23 14 11 9 65 (e)52 43			
Point Orient Point Pinole Point Davis Grand View Grockett Benicia Martinez West Sileun Innisfail Ferry Port Chicago 0 & A Ferry Pittaburg Collinsvills Emmaton (+*) Threemile Slough Eridge Rio Vista Eridge Isleton Bridge Isleton Bridge Antioch Millers Harbor Jersey Island Threemile Slough Oulton Point San Andreas Landing Opposite Cantral Landing Dutch Slough	7760 78400 41600 1000 1000 1000 1000 1000 1000	8620 5860 3350 3520 1100 2520 69 37 (*)35 16 16 47 (a)57 32 45 43 (a)14 14 74	San Fran 9180 5880 7520 (a)4100 1840 960 1720 59 59 (a)214 20 13 53 54 40 13 25 13 25 13 25 13 25 13 25 14 13 25 18 10 13 25 18 10 13 25 18 10 18 10 18 10 20 18 10 20 18 10 20 20 20 20 20 20 20 20 20 20 20 20 20	Febru cisco. San 1 13200 8280 5960 (a)5580 (a)5580 (a)760 (a)760 (a)760 (a)760 (a)760 (a)760 (a)760 2760 184 359 Sacramento 27 20 21 20 18 Sar Joaqui 53 49 29 29 20	lary - 1955 Pablo, and S 13800 4980 4080 400 6680 4740 1040 1760 170 149 River Delta 86 22 26 17 14 17 14 17 14 53	atisun Eays 15000 10700 (b) 9280 6840 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 299 299 299 299 299 299 299 29	14500 10700 7680 6740 6740 6260 3920 266 (b)293 142 (a)23 14 11 9 65 (e)52 43 43 14 14 (d)15			
Point Orient Point Pinole Point Davis Grand View Grockett Benicia Martinez West Sileun Innisfail Ferry Port Chicago 0 & A Ferry Pittaburg Collinsvills Emmaton (**) Threemile Slough Eridge Rio Vista Eridge Isleton Bridge Isleton Bridge Antioch Millers Harbor Jersey Island Threemile Slough Oulton Point San Andreas Landing Opposite Cantral Landing Dutch Slough Webb Farry East Contra Costa Irrigation Dist.	7760 7840 6400 4160 1060 2940 178 73 73 52 24 22 24 22 22 48 56 40 48 36 40 48 36 40 48 36 40 48 36 40 48 56 40 48 56 40 40 48 56 40 40 40 40 40 40 40 40 40 40 40 40 40	8620 5860 3390 3520 1100 2520 69 (*) 35 (*) 35 (*) 35 (*) 35 16 16 16 16 (*) 57 (*) 57 (*) 35 (*) 16 16 (*) 57 (*) 57 (*) 35 (*) 16 (*) 57 (*) 35 (*)	San Fran 9180 5880 7520 (a)4100 960 1720 1840 1720 120 122 20 13 54 25 41 25 41 39	Febru clasco, San 1 13200 8280 59500 (a)5580 (a)760 (*)2600 (*)2600 (*)2600 (*)2600 (*)2600 210 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	lary - 1955 Pablo, and S 13800 4980 4080 4080 400 6680 4740 1760 599 149 River Delta 86 22 17 14 53 53 53 53 22 42 173 32 173 32 173 32 173 (a)102	atisun Eays 15000 10700 (b) 9280 6840 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 2980 299 299 299 299 299 299 299 29	14500 10700 7680 6740 6740 6260 3920 266 (b)293 14 (a)23 14 11 9 655 (e)52 43 43 14 655 (d)155 (a)82			
Point Orient Point Pinole Point Davis Grand View Crockett Benicia Martinez West Suleun Innisfail Ferry Port Chicago O & A Ferry Pittsburg Collinsvilla Emmaton (**) Threemile Slough Bridga Rio Vista Eridge Isleton Bridge Antioch Millers Harbor Jersey Island Threemile Slough Oulton Point San Andreas Landing Dutch Slough Webb Ferry	7760 7840 6400 1760 2940 178 73 73 529 24 22 24 22 48 56 40 48 48 48 48 48 48 48 48 48 48 48 48	8620 5860 3320 1100 2520 69 (*) 35 (*) 35 16 16 16 (a) 57 45 45 43 (a) 14 47 (a) 57 45 45 45 45 45 45 45 45 45 45 45 45 45	San Fran 9180 5880 7520 (a)4100 2500 1840 960 1720 59 40 (a)24 22 20 13 53 54 25 41 13 99 18 162	Febru cisco. San 1 13200 8280 5960 (a)5580 7760 (*)2600 (*)2600 (*)2600 2760 2760 2760 2760 2760 2760 270 20 184 359 Sacramento 27 20 18 359 53 49 29 40 49 49 29 40 41 19 168	lary - 1955 Pablo, and S 13800 4980 7400 6680 7400 6680 1760 1760 1760 1760 199 149 River Delta 86 22 26 17 14 n River Delta 53 40 55 32 32 32 72 173	(a)16 (a)16 (b)280 (b)280 (b)280 (b)280 (b)35 (b)35 (b)35 21 (c)35 8 8 (b)35 21 16 8 8 8 8 9 49 31 (c)16 (c)16 70 70	14500 10700 7680 6740 6740 6260 3920 266 (b)293 142 (a)23 14 11 9 65 (e)52 43 43 14 14 (d)15			

(*) Presumed
(**) Formarly known as "Opposite Toland Lending."
(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 carlier.
(g) Station located above tidal action.

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#### TABLE 224 td.

# SALINITY UBSERVATI NS, SACRAMENTO-SAN JOAQUIN DELTA AND PPER BAYS

			March	1 - 1955			
2	¢	10	14	18	22	≤6	30
		Jan Fran	cisco, San I	ablo, and S.	lisun Beys		
12800	1380.	14600		12706	14600		14700
8120 (*)7060 5106 5260 14-0 2430 130 76	9700 9160 7690 9160 300 2-60 2100 2100 (*)86	10200 (b) 9080 5380 (a) 3360 3145 3220 367 (a) 82	6960 8560 6280 3600 2720 (a)1340 1920 109	(a)10700 (a)8820 7040 5520 3580 1330 2560 333 60	(b)11_00 9606 10500 7520 (a)6065 2600 (d)1_16 -720 312	\$10800 10800 (a)_280 1560 5720 280	9700 29300 8 40 7140 -880 1690 5540 1680
				River Delta			
33 19 15 16	33 17 16 11	(a)34 22 21 13 14	32 20 22 16 5	26 19 18 12 10	(a)£0 (a)17 13 10	305 20 17 13 9	704 19 16 12
			San Joaquin	h River Delt	3		
60 50	-3 52	(a)61 52	58 49	45 48	(a)53 (a)44	la,123	292 ساره)
41 399 44 72 479 96 852 (e)92	46 42 17 74 48 176 (a)96 (c)87	(a)42 41 34 12 75 (a)43 174 106 103 (c)86	28 36 35 1c 67 (a)50 181 (d)88 74 (b)91	33 37 30 11 68 (de)41 159 93 115	(a)26 (a)17 (a)13 (a)59 30 134 116 143	31 23 18 52 (d)38 (b)57 168	(d)20 32 22 11 52 36 80 95 224 (a)191
			April	- 1455			
		San Franc	isco, San Pi	ablo, and Su	isun Bays		
15200	1510c	15100	15400	13900	15700	15900	14500
10000 (b)8840 (*)7340 5720 1860 3740 860 340	11400 (a)10200 (a)5340 5140 (a)1840 5020 540 (a)220	11600 11300 0940 (a)4830 1330 5920 1700	11300 11800 3580 7930 6390 1800 4500 1320	11900 12500 9770 (a)7710 7380 (a)1800 4830 1420	12900 (d)9960 (b)13300 (d)6710 (a)6770 7220 2150 6080 2310	(⇒)11200 (e)12200 10300 a)3510 (a)1910 6270 2350 5030 87	9-30 12.00 (b)10000 a)5700 (e)1950 (b)2510
			Sacramanto	River Delta			
292 16 16 12 8	(a)184 (a)20 16 12 8	554 (a)36 19 16 8	768 35 19 11 13	(a)548 (a)24 19 9 8	(a)853 (a)23 23 9 6	469 11 10 12 8	(a)19 (a)12 (a)13 (a)10 (b)4
			San Joaqui	n River Delt	a I		
152 52 24 16 44 32 6 (*)220	(a)132 (ab)40 (a)24 (a)24 (a)26 (a)26 (a)26 (a)26 (a)26 (a)26 (a)26 (a)26 (a)26 (a)26 (a)26 (a)26 (a)26 (a)24 (b)24 (b)24 (b)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)24 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26 (c)26)(c)26 (c)26 (c)26)(c)26 (c)26)(c)26 (c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)26)(c)2	336 40 (a) 24 23 (a) 20 13 34 (d) 24 (b) 66	301 58 (d)24 16 16 36 (d)28 (b)62 161	(a) 252 (a) 59 (a) 25 (a) 20 (a) 12 (a) 12 (a) 10 (a) 34 (d) 21 55 (d) 21 55 204	(a) 312 (f) \$9 (a) 51 (a) 13 a) 8 38 d) 2 52 43 126	324 47 17 17 22 22 51 91	<pre></pre>
	12800 (*)7060 5266 1.00 5266 1.00 76 76 130 150 6 6 6 6 6 72 141 16 16 16 16 16 16 16 16 16 16 16 16 16	12800     13800       6120     5160       5160     7630       5260     300       2130     2110       130     2110       130     15       15     16       16     11       600     526       130     17       15     17       16     11       60     526       130     17       16     11       60     526       177     16       16     11       60     526       177     14       180     177       199     176       199     176       (e)95     1510       199     176       (e)95     1510       199     176       (e)95     1510       199     176       (e)95     1510       190     (a)160       (a)1200     (a)180       3700     510       1910     (a)180       3700     510       1920     160       1920     120       1920     120       1920     120       1920     120	12800         36n Fran           12800         13900         14606 $(*)700$ 10200         9160 $5160$ 5360         9180 $5160$ 5360         9180 $5160$ 5360         9180 $5160$ 5380         9180 $5160$ 2100         3220 $130$ 210         3220 $130$ 210         3220 $130$ 17         21 $150$ 17         21 $16$ 11         11 $16$ 11         11 $16$ 11         11 $16$ 17         12 $19$ $42$ $41$ $146$ (a)431         176 $177$ 12         74 $72$ 74         75 $160$ 1106         1300 $(e)92$ (e)97         176 $177$ 12         74 $72$ 74         75 $(e)97$ <th>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</th> <th>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</th> <th>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</th> <th>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</th>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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e) Presumed.
e>) Formerly kr. ws. as "Opposite Toland Landing."
(a) Taken on Low High Tide.
b) Taken in f llowing day.
c) Taken two lays later.

(d) Taken ver one nour off scheduled time.
 (e) Taken on preceding day.
 (f) Taken two days earlier.
 (g) Stati w located above tidal action.

#### TABLE 224 - contd.

### SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN OELTA AND UPPER BAYS

# Samples taken by local observers approximately one and one-half hours after high high tide Salinity expressed in parts of chloride per million parts of water

				May -	1955			
Station	2	6	10	14	18	22	26	30
Point Orient Point Davis Grand View Grockett Benicle Martinez West Sulsun Innisfail Ferry Port Chicego O & A Ferry Pittsburg	(a)13000 12200 7140 (a)3020 2980 (a)1830 487 96	11400 12000 10100 (a)2690 5500 1100 (*)4170 242 (ab)31	San Fran 14100 3750 11700 (d)7720 4600 (a)2360 2380 2380 733 2160 49 (a)25	cisco, San 1 350 11400 5190 3660 (a)2360 (a)1260 (a)1260 (*)1060 26	Pablo, and St 10600 (b)9280 6720 3220 (af)1320 3850 126 (a)98	11sun Bays 15400 10500 (ab)9060 9830 (a)4060 (a)573 6350 1100	9980 9730 7330 (e)6050 (e)6050 3920 (a)1140 3590 331 199	(b)15000 11100 10500 (b)7150 (b)7150 (b)7050 (a)2540 (a)983 2420 (b)137 (ab)196
Collinsville Emmaton Threemile Slough Bridge Rio Vista Bridge Islaton Bridge	(a)23 (a)9 9 7	(a)16 (a)9 9 12 (*)12	19 8 9 9 7	(a)13 (b)7 (b)10 (b)7	River Delta 8 9 7	(a)185 (a)11 17 12 9	58 13 (a)11 11 7	(a)19 (a)10 (b)8 (b)9 (b)5
Antioch Millers Harbor Jersey Island Threemile Slough Oulton Foint San Andreas Landing Opposite Centrel Landing Dutch Slough Webb Ferry East Contra Costa Irrigation Dist. Clifton Court Ferry Mossdale Bridge Vernalis (g)	(a) (a) (a) (a) (a) (a) (a) (a)	(a)29 (a)18 (a)10 (a)7 (a)20 64 122 128	(a)21 16 13 13 13 24 15 (a)46 117 (b)126	San Joaquir (a)23 (a)16 (a)12 (a)14 (a)24 (a)92 (a)166 168	River Delta (a)18 (a)15 (a)10 (f)11 (a)11 (a)30 (a)30 (a)30 38 186 (e)191	(a)82 (a)11 (a)11 (a)14 (a)15 (a)15 39 215 (f)208	89 12 16 13 11 (d)16 35 (b)85	(a) 37 (a) 12 (a) 13 (a) 12 (a) 12 (a) 12 (a) 12 (a) 12 (a) 40 (a) 52
Point Orient Point Pinole Point Davis Grand View Crockett Benicia Martinez West Suisun Innisfall Ferry Port Chleago O & A Ferry Pittsburg	(*)15100 10600 9380 7000 (a)2790 (b)1000 (b)1000 3950 164	15300 11300 10800 (a)9690 (a)3570 6300 3970 960 (a)161	San Franc (e)15600 (b)9160 10900 9870 7530 (e)4620 4860 1150 3870 463 1159 199		- 1955 10600 12200 12100 9340 (a)4480 8670 6230 934	sun Bays 15900 12800 11700 11900 9640 (a)4960 1610 (*b)5880 1180 (a)884	(b)11700 12800 11600 2220 7210 7010 1790 1370 (a)740	(e)16300 (e)12300 (e)12300 (a)6350 7750 2190 7650 1630 (ab)767
Collinsville Emmaton Threemile Slough Bridge Rio Vista Bridge Isleton Bridge	(a)31 13 (a)8 10 6	(a)132 17 9 11 14	191 14 14 8 8	Sacramento (a)12 (b)12 (b)18 (b)8	River Delta (a)205 12 8 13	51 16 19 12	(a)592 (a)32 (b)13 (b)16	(a)690 189 35 14 21
Antioch Millers Harbor Jersey Island Threemile Slough Oulton Point San Andreas Landing Dutch Slough Webb Ferry East Contra Costa Irrigation Dist. Clifton Court Ferry Mosadle Vermalis (g)	(a)34 (a)10 (a)10 (a)17 (a)60 (a)21 (a)14 (a)38 36 (b)73	(a)71 19 (a)15 (a)15 (a)15 (a)15 (a)15 (a)13 28 92 (b)52	100 25 13 17 18 10 18 19 30 26 33	San Joaquir (a)54 (a)21 (a)16 (a)17 (a)13 (a)24 (a)24 (a)22 (a)32 (a)53 58	a River Delta (a)89 (a)19 (a)18 (a)16 (a)10 20 (d)17 29 83 (e)77	433 42 79 (a)23 (a)18 13 27 14 28 130 (e)135	(a) 349 (b) 63 (a) 15 (ac) 16 (a) 24 (a) 26 (a) 29 (a) 153 (c) 159	(a) 324 364 (a) 26 (a) 18 (a) 18 (a) 15 (a) 37 (c) 36 171

(*) 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 224 - contd.

# SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

# Samples teken by local observers approximately one and one- elf nours after high high tide Selinity expressed in parts of chloride per million parts of water

				July	- 1955			
Station	2	6	10	14	18	22	26	30
			San Franc	isco, San P	ablo, and Su	isun Bays		
Point Orient Point Pinole Point Davis	16800		15600	15600 (a)14300	15900 (a)13700	16000	15800	(e)17800 (m)16100
Grand View Grackt Bonicia Martinez Wast Suisun Innisfail Ferry	11200 6500 8790 2110	13000 10100 (a)5940 7760	14500 12000 9780 8240 8570	13100 12600 9960 (a)6660 10400	13700 (a)11900 12100 (a)6680 10200	13800 13000 (f)10800 (a)8260	13100 (eb)12400 10700 (a)9060 7170	(b)14400 12600 (e)8460
Port Chicago O & A Ferry Pittsburg	5920 2950 (ab)1030	7660 2030 (a)595	6680 2470 (a)1380	(b)8580 (b)3860 (a)1380	8810 3960 (ab)3270	8120 4100 (a) 3060	8730 4330 (b)3410	9660 5340
				Sacramento	River Dalta			
Collinsville Emmaton Thraemile Slough Bridge Rio Vista Bridge Islaton Bridge	(a)1110 80 32 16 13	1640 255 49 16 23	1530 75 50 15 13	(a)89 (b)68 (b)19 (b)15	(a)1970 311 170 32 13	2640 548 215 24 13	(a)2190 (a)172 195 (b)15 (b)14	(a)2550 1015 351 25 13
				San Joaqui:	n River Delt	a.		
Antioch Millars Harbor Jersav Island	(a)442 195 264	(a)596 278 (a)76	853 220	(a)643 (a)497	(a)1220 (*a)498	2010 600	(a)1270	(a)1410 1841
Jersay Island Threemile Slough Oulton Point San Andreas Landing Opposite Central Landing Dutch Slough Webb Ferry East Contra Costa Irrigation Dist. Clifton Court Ferry	(a) 24 (a) 24 (a) 20 (a) 16 (a) 44 39 26	(a)89 (a)18 57 37 28	(a)53 (e)21 (a)17 (a)61 (a)57 (a)32	(d)75 (a)39 (*a)24 (a)20 (a)74 (a)58 (a)33	(a)139 (a)53 (a)32 (a)17 (a)114 172 33	159 48 22 182 (e)174 40	(a)167 (a)111 (a)21 (a)16 (a)161 (d)161 (ab)51	395 (d)110 (a)46 (a)16 (a)209 (a)183 (a)54
Mossdale Bridge Vernalis (g)	182	(d)24 154 (c)178	(a)196 (c)167	(a)185 (b)193	30 191 (b)137	35 (*)176 189	(a)210 185	184 (0)183
				August	- 1955			
			San Franc	isco, San P	ablo, and Su	isun Bays		
Point Orient Point Pinole Point Davis	18400 (a)16300	19000	18500 (d)19000	(a)18500		19700	18700	19000
Grand View Grockstt Benicia Martinez Wast Suisun Innisfail Perry	15200 (a)13700 12700 (a)8450 10000	15500 14700 12100 (a)9100 9700	(a)16400 16300 13400 10500 12600	(a)15700 13900 (a)10800 12400	16600 (a)16600 15100 (a)9810 11500	16700 15600 12600 (a)10700 11700	16500 15000 13500 11000 11800	16300 (a)14800 13300 (e)9100
Port Chicago O & A Ferry Pittsburg	7580 5150	9360 5110 (@)3720	10600 6350 (въ)2600	12500 5120 (ab)3100	10400 5590 (a)3000	\$650 6400 (a)7800	10200 4920	10200 5290 (a)2640
				Sacramento	River Delta			
Collinsville Emmaton Threamile Slough Bridge Rio Vista Bridge Ieleton Bridge	(a) 3260 685 356 28 12	3190 594 373 17 12	(a) 3250 (a) 462 477 40 15	(a)3520 (a)438 635 158 14	(a) 3880 (a) 806 577 32	(a) 3340 540 513 14 (a) 12	450 (c]426 (b)16 (b)14	(a) 2800 1080 338 19 (a) 14
				San Joaquin	n River Delt	8		
Antioch Millers Harbor Jersey Island Threemile Slough Oulton Point San Andreas Landing Opposite Central Landing Dutch Slough Webb Ferry East Contra Costa Irrigation Diet. Clifton Court Ferry	(a)1690 (a)1080 (b)1130 (a)272 (a)139 (*a)46 (a)19 265 (a)166 62	2270 (a)1140 428 171 98 20 336 162 72	(a)1890 1370 (a)154 (a)126 (a)44 (a)15 (a)337 (a)323 (a)93 (a)71	(a)2100 2360 (a)302 (a)162 (a)66 (a)392 (a)298 (a)108	2670 (a)1230 (a)512 (a)312 376 (a)89 454 331 113 80	3320 1410 735 280 (a)152 (a)405 (a)405 (a)330 (a)135 (d)68	(a)1,00 (a)880 (a)304 (a)177 (a)17 (a)17 (a)17 (a)23 (a)23 (b)147	(a)1790 1670 (a)102 (e)80 (a)15 (a)342 (ac)280 (a)157 112
Mossdale Bridge Vernalis (g)	186 186	170 (e)231	(a)71 (a)196 (a)155	(a)187	169 (e)174	(a)178 (b)158	(m)180 180	166 151

(3) Presumed.
(a) Teken on Low High Tide.
(b) Taken on following day.
(c) Taken two deys leter.

(d) Taken over one hour off scheduled time.
(e) Taken on preceding day.
(f) Taken two days earlier.
(g) Stetion located above tidal action.

#### TABLE 224 - contd.

SALINITY OBSERVATIONS, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

Samples taken by locel observers approximately one and ona-half hours after high high tide Selinity expressed in parts of chloride par million perts of watar

				Saptembe	er - 1955			
Station	2	6	10	14	18	22	26	30
			San Fran	cisco, San I	Pablo, and Su	ulsun Bays		
Point Orient Point Pinole Point Devis	(a)17700		20000	18400 (e)16500	18600	18200	(e)16100	18000 15700
Grand Vlew Crockett Benicia Martinez West Sulsun Innisfail Farry	16100 (d)14000 12800 (a)10100 10600	16600 16200 12200 (a)9990	16400 14700 (*)12900 (a)9650 10600	16500 (a)15000 13300 (a)9440 11500	16000 15000 11200 9400 10100	16500 13300 12300 (a)8870 10400	15700 13200 11500 (a)8450 9850 (a)5780	15900 13800 10800 9700 (a)5400
Port Chicago O & A Ferry Pittsburg	10400 5120 (a)3420	10300 5130 (e)3660	9600 4940	10000 3630	8550 4220 (a)2360	8550 3540	7900 (b)1700 (a)1000	7550 2550 1270
				Secramento	River Delta	1		
Collinsville Emmaton Threamile Slough Bridge Rio Vista Bridge Isleton Bridge	(a)2920 (e)375 22 12	(a) 3040 (a) 390 340 15 18	(a)2410 (b)380 (b)19 (b)13	(a) 294 196 16 14	1790 206 89 16 17	(e)1600 (e)93 71 18 20	(a)1280 (b)40 (b)19 (b)17	1190 141 50 20 18
				San Joequir	n River Dalta	а I		
Antloch Millers Harbor Jersey Island Threemile Slough	2450 1260	2350 249	(a)134	(e)1870 740 (a)308 (a)183	737 (ab)81	1210 358 (a)88	(a)576 (a)214 (a)59	720 325
Oulton Point San Andreas Lending Opposite Central Lending Dutch Slough Webb Ferry	248 (a)97 (a)21 349 (a)198	(a)112 (a)71 (a)17 (a)309 (a)199 (a)148	(a)61 (a)18 (a)15 (a)278 (a)219	(a)59 (a)49 (e)17 (a)236 (eb)210	(e)50 (a)43 (a)18 (e)206 {ac)104 (a)140	(e)44 (a)36 (a)18 (a)165 (e)100	(e)44 (a)33 (a)16 (a)148 (e)75 ,134	50 50 30 18 118 (e)65
East Contra Costa Irrigation Dist. Clifton Court Ferry Mosadela Bridga Vernalis (g)	157 166	(e)169	(b)149 (a)194 (e)157	(e)142 (a)105 158 (e)151	(a)175 (a)169	(a)142 (a)96 (e)171 (b)163	(a)87 (a)178 (b)155	(e)154 (a)189
							•	
				Octobai	r - 1955			
			San Franc		r - 1955 ablo, and Su.	isun Bays		
Point Orient Point Pinole Point Devis	18300		San Franc 17800 (a)16200			isun Bays 17100	16900 14800	18000
Point Pinole Point Dewis Grand Viaw Crockett Benicia Martinaz West Suisun	18300 (b)15300 11800 10000 9800	16300 13900 11300 (a)7940 8500	17800	13200, Sen Pa 18200 15200 13400 12300 9900	15100 14000 11700 (a)9000 9300	17100 15500 12100 10300 (a)8250 8760	14800 15400 13900 9200	14700 14100 12400 10800 11200
Point Pinole Point Devis Grand Viaw Crockatt Benicia Martinaz	15300 (b)15300 11800 10000	13900 11300	17800 (a)16200 16400 (b)13900 11500	1900, Sen Pa 18200 15200 13400 12300	ablo, and Su. 15100 14000 11700 (a)9000	17100 15500 12400 10300 (a)8250	14800 15400 13900	14700 14100 12400 10800
Point Pinole Point Devis Grand Viaw Crockatt Benicia Martinaz West Suisun Innisfeil Ferry Port Chicago O & A Ferry	15300 (b)15300 11800 10000 9800 7630 (a)3160	13900 11300 (a)7940 8500 8800	17800 (a)16200 16400 (b)13900 11500 (e)9250 8750 9130 2480	1300, Sen Pr 18200 15200 13400 12300 9900 5080 9050 3420 (b)2470	15100 14000 11700 (a)9000 9300 5040 8200	17100 12400 10300 (a)8250 8760 (a)5200 6350	14800 15400 13900 9200 (ab)5140 8180 3000	14700 14100 12400 10800 11200 (a)5080 9750 4040
Point Pinole Point Devis Grand Viaw Crockatt Benicia Martinaz West Suisun Innisfeil Ferry Port Chicago O & A Ferry	15300 (b)15300 11800 10000 9800 7630 (a)3160	13900 11300 (a)7940 8500 8800	17800 (a)16200 16400 (b)13900 11500 (e)9250 8750 9130 2480	1300, Sen Pr 18200 15200 13400 12300 9900 5080 9050 3420 (b)2470	ablo, and Su 15100 14000 01700 (a)9000 9300 5040 8200 3890 1850	17100 12400 10300 (a)8250 8760 (a)5200 6350	14800 15400 13900 9200 (ab)5140 8180 3000	14700 14100 12400 10800 11200 (a)5080 9750 4040
Point Pinole Point Devis Grand Viaw Crockatt Benicia Martinaz West Suisun Innisfail Ferry Port Chicago O & A Ferry Pittsburg Collinsville Emmaton Threemile Slough Bridge Rio Vista Bridge	15300 (b)15300 11800 10000 9800 7630 (a)3160 3440 1820 (a)62 56 21	13900 11300 (a)7940 8500 3100 1170 (a)960 (e)63 21	17800 (a)16200 16400 (b)13900 11500 (e)9250 (eb)130 (eb)1180 (ab)180 (ab)15	1sco, Sen P/ 18200 15200 13400 12300 9900 5080 9050 3420 (b)2470 Secramento 2280 53 17 13	ablo, and Su 15100 14,000 11700 (a)9000 9300 5040 8200 3890 1850 River Delta (a)1210 (a)464 41 13 8 River Delta	17100 15500 12100 (a)8250 (a)5200 (a)5200 (a)5200 2400 (a)1220 33 14 11	14800 15400 13900 (ab)5440 (ab)5440 3000 (b)735 52 23 12	14700 14100 12100 11200 (a)5080 9750 4010 (b)1370 2065 27 12
Point Pinole Point Devis Grand Viaw Crockatt Benicia Martinaz West Suisun Innisfail Ferry Port Chicago O & A Ferry Pittsburg Collinsville Ermaton Threemile Slough Bridge Rio Vista Bridge Isleton Bridge Antioch Millers Harbor Jersey Islend	15300 (b)15300 11800 10000 9800 7630 (a)3160 3440 1820 (a)62 56 21	13900 11300 (a)7940 8500 8800 3100 1170 (a)960 (e)63 21 17 17 1100 (a)160	17800 (a)16200 16400 (b)13900 11500 (e)9250 8750 2480 (eb)1180 (eb)1180 (b)15 (b)12 (a)780 (a)750	13cc, Sen P/ 13200 15200 13400 12300 9900 5080 9900 5080 9900 5080 9900 5080 9900 5080 9900 5080 9900 5080 9900 5080 9900 5080 9900 5080 9900 5080 9900 5080 9122 (b)2470 Secramento 2280 68 51 17 13 San Joequír 10 10 10 10 10 10 10 10 10 10	ablo, and Su 15100 11,000 11,000 (a)9000 9300 5040 8200 3890 1850 River Delta (a)1210 (a)64 13 13 8 River Delta 900 147	17100 15500 12100 (a)8250 (a)5200 (a)5200 (a)5200 2400 (a)1220 33 14 11	14800 15400 13900 (ab)5440 8180 3000 (b)735 52 23 12 10 52 23 12 10	14700 14100 12100 10800 (a)5080 (b)1370 (b)1370 2065 27 12 12 12
Point Pinole Point Devis Grand Viaw Crockett Benicia Martinaz West Suisun Innisfeil Ferry Port Chicago O & A Ferry Pittsburg Collinsville Emmaton Threemile Slough Bridge Rio Vista Bridge Isleton Bridge	(b) 15300 11800 9800 (a) 3160 (a) 3160 3440 (a) 62 (a) 62 21 15 970	13900 11300 (a)7940 8500 8800 3100 1170 (a)960 (e)63 21 17 17	17800 (a)16200 16400 (b)13900 11500 (e)9250 8750 2480 (eb)1180 (eb)1180 (a)50 (b)50 (b)15 (b)12	1sco, Sen P/ 18200 15200 13400 12300 9900 5080 9050 3420 (b)2470 Secramento 2280 53 17 13 San Joequín	ablo, and Su. 15100 11700 (a)9000 9300 5040 8200 3890 1850 River Delta (a)1210 (a)64 13 8 River Delta	17100 15500 12400 10300 (a)8250 8760 (a)5200 2400 (a)1220 33 14 11	14800 15400 13900 (ab)5440 8180 3000 (b)735 52 23 12 10 10	14700 14100 12100 10800 (a)5080 (b)5080 (b)1370 (b)1370 2065 27 12 12

(*) Presumed.
(e) Takan on Low High Tide.
(b) Takan on following day.
(c) Taken two days latar.

(d) Taken over one hour off schedulad time.
(e) Taken on preceding day.
(f) Taken two days sariisr.
(g) Station loceted above tidal action.

#### TABLE 224 contd.

# SALINITY OBSERVATION, SACRAMENTO-SAN JOAQUIN DELTA AND UPPER BAYS

# Samples taken by local observers approximately one and one-half hours after high high tide Salinity expressed in parts of chloride per million parts of water

				Nover	nbar - 1955			
Station	2	6	10	14	18	22	26	30
			San Fran	cisco, San 1	Pablo, and Su	uisun Bays		
Point Orient Point Finole Point Davis	1 <b>7</b> 900 15300	16900	18200 15000	18000		16500	16700	(d)15900
Grand View Crockatt Benicia Martinez	14700 14200 10800 11900	14900 11400 9200 (a)6900	15000 (b)14000 11900 11400	14500 13500 10900 11700	15000 12700 8700 10500	14600 (a)9350 0720 8360	14500 11700 10100	14000 13000 9370 7900
West Suisun Innisfall Perry Port Chicago O & A Perry Pittsburg	5020 9150 3290 3190	4860 7280 2620 (ab)1080	8900 4700 8330 2360 1210	4650 8220 3630 1830	5020 6260 2440 1190	(в)5080 4800 ≎150 1900	6560 (ab)4930 6570 1590	3510 7500 2270 430
				Sacramanto	River Delta			
Collinsville Emmaton Threemile Slough Bridge Ric Vista Bridge Islaton Bridge	(a)1150 (a)37 37 15 9	1350 26 11 10	1390 24 12 13	1880 158 32 12 10	915 113 27 12 9	396 28 15 13 9	11 9 8	992 (a)26 10 13
				San Joaqui	n River Delt	a.		
Antioch Millers Harbor Jersey Island	1220 96	615 88	840 61	1270	784 (a)77	312 (a)55	144 32	388 (d) 33
Threamile Slough Oulton Point San Andreas Landing Opposite Central Landing Dutch Slough Webb Ferry	(a)25 22 (a)11 (a)49 30 (a)86	(a)26 (a)23 (a)22 (a)11 (a)143 (d)29 (d)29 (a)84	28 32 16 11 42 (e)29 (b)84	33 32 12 43 32 (a)91	(a)25 (a)20 (a)22 (a)10 (a)44 (a)26	(d)23 23 15 40 (b)27	18 19 17 8 41	(a)17 (a)22 (a)7 (a)39 (*)22
East Contra Costa Irrigation Dist. Clifton Court Ferry Mossdale Bridge Varnalls (g)	(a)173	(a)122 (c)129	(a)161 (c)202	(a)146 (a)206	(a)104 (a)163 136	120 (e)134	132 120 121	130 (a)125 (s)120
					mber - 1955			
Point Orient	15800		16900	15100	Pablo, and St 16100	l i	252.0	
Point Pinole Point Davis	19000	13900	10900	13200	10100	13400	2510	4630
Grand View Grockstt Benicia Martinez West Sulsun Innisfall Forry Fort Chicago O & A Ferry Fittsburg	14200 12600 9300 (a)6300 8300 3620 7130 2050 874	13700 12800 10700 9550 3400 7600 1760	12700 9760 8700 7630 2190 310 560	12800 (b)9750 6400 4000 1910 4430 476 (b)111	11400 10100 6100 8460 4600 6450 321	3230 1990 4500 (e)2730 2260 (a)2920 1570 (*)30 58	2150 82 50 23 26 6	1110 24 29 30 150 295 21 14
	( ) 200	(05			River Dalta			
Collinsyills Emmaton Threemile Slough Bridge Rio Vista Bridge Isleton Bridge	(a)308 13 10 10	607 14 (a)12 10	11 7 6 4	54 7 8 11	(a)37 10 11 12	21 4 3 5	2 3 6 4	8 (a)3 2 7 3
				San Joaquin	n River Dalta	a.		
Antioch Millara Harbor Jersey Island	454 38	300 31	104 31	73 29	102 30	66 (a)33	40	19 (b)29
Threemile Slough Oulton Point San Andreas Landing Opposite Contral Landing Dutch Slough Webb Ferry East Contra Costa Irrigation Dist. Cilifton Court Ferry	(a)20 20 (o)10 (a)40 (b)20 134	20 26 21 10 (d)23 (b)146	19 20 20 8 44 23 151	(a)20 24 (a)9 (a)53 22 (ab)173	(a)24 (a)15 36 (d)26 (a)173	14 17 6 73 (d)27 162	2 91 (b)42	(a)4 (a)30 (a)23
Mossdale Bridge Vernalis (g)	(a)120 125	113 105	(a)82	(a)79 (e)77	(a)86 (c)87	(a)69	(a)4	(a)10

(*) Freeumed.
(*) Teken 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 cerlier.
(g) Station located above tidal action.

			Disso								Pa	irts pei	r Milli	lon					1
Date Time	G.H. Flow T Feet c.f.s.	°F	ppm )	en %sat	Kx10 ⁶	pН	Ca	Mg	Ne	K	co3	нсо 3	soų	Cl	NO3	F	В	Total Solids	% Na
SACRAMEN	TO RIVER AT DI	elta	T36N	, R5W	. Sec.	15													
1/19 1700 2/10 0'30 3/10 1100 4/14 1.30 5/16 1300 6/22 1330 7/13 30900 9/13 1100 10/14 0:30 11/16 1:600 12/16 1330	512 616 40 781 12:0 355 153 194 226 651	368 388 944 556 568 45 568 45 568 45 568 45 568 45 568 45 568 45 568 45 568 45 56 568 45 56 568 568 568 568 568 568 568 568 569 569 569 569 569 569 569 569 569 569	13.0 12.2 11.7 11.8 10.9 10.1 5.6 9.9 13.1 11.6	94 91 100 101 105 102 97 94 93 7	115 116 115 102 07.2 127 141 163 159 153 116	777777777777777777777777777777777777777	0.0 5.7 5.7 5.7 7.2 9.7 11 9.7 8 7.6		6.4 5.77 4.298 1521 10.4	0.76 0.754 0.79 1.53 1.338		63 644 552 77 8 8 7 7 8 8 7 7 3	د . ^د . 50	049205592 0433252880 105	0.1 0.1	0.1 J.1	1.05 0.04 0.10 0.12 0.12 0.28 0.28 0.28 0.28 0.28 0.28	64 118	23 21 17 15 23 26 37 32 31 23
SACRAMEN	TO RIVER AT KI	ESWI	<u>DK</u> T3	2N, R	5W. Sac														
1/19 1400 2/10 1130 3/3 1500 4/14 1230 6/20 1600 7/18 1730 0/13 0900 10/13 1600 11/16 1100 12/12 1600	512 1,350 3050 71,00 6,370 6,370 11,300 6,370 1,350 6,370 1,350 3,120	486000002564	10.03 10.1 12.0 11.4 11.9 10.0 9.2 8.9 9.2 8.9	86 84 106 100 105 88 94 83 84 87 81	110 133 118 127 127 124 125 119 119 121 138	7.02336432220	11 9.7 8.8 11 11 11 11 12 10 11 10	52688807081 36544453646	6.0 7.0 7.3 7.5 6.8 7.5 6.8 8.0	1.089557447466		57 73 71 70 70 70 70 70 66 68 67 71	4.0 3.0	0.8950808 322 332 332 31 350 1 350	0.2	0.1 ).1	0.02 0.00 0.06 0.06 0.06 0.07 0.07 0.09 0.11 0.01 0.17	94 85	235444441035
	TO RIVER AT R	<u>eooii</u> 46	<u>NG</u> T3 10.16		4W. Sea 112		11	4.0	6.8	1 1	0	64		2.0			0.00		24
1/19 1100 2/9 1400 3/8 1400 6/20 1000 7/14 2000 9/12 1130 10/10 1400 11/16 1300 12/12 1100	4300 3050 6100 5400 8438 10200 6600 5370 2530	450104222464	12.2 12.6 11.6 12.2 12.4 10.1 10.9 10.2 10.2 10.2 10.0	108 112 101 113 112 91 93 95 97 93	123 120 128 135 125 121 117 120 131 132	7.240.7 7.6644342 7.4342	11 11 11 10 10 13 11 12 11	450445553545	8.241 7.14 7.14 7.14 7.14 7.14 7.14 7.14 7.	1.406.44.3.44.3.2	000000000000000000000000000000000000000	726 716 706 706 729	8.5 3.0	0 N & N N & N O L & D N N N N N N N N N L H M H N N N N N N L H M H N N N N N N N H M H N N N N N N N N H M H N N N N N N N N N H M H N N N N N N N N N N N H M H N N N N N N N N N N N H M H M H M H M H	0.2 0.4	0.1 0.1	0.00 0.00 0.06 0.06 0.02 0.05 0.05 0.05 0.05 0.05 0.05 0.08	95 85	222222222222222222222222222222222222222
SACRAMEN	TO RIVER AT H.	AMIL	PON CI	TY T	22N. RI		c. 17												
1/11 1000 2/7 1800 3/7 1100 4/4 1000 5/12 0000 5/12 0000 7/14 0800 8/18 0540 9/15 1500 10/13 0850 12/14 1600	11000 7740 5250 7290 6302 9100 8060 6980 5160 6980 6980 6980 6980 6980 6980 6980 69	445565555540	11.3 10.8 10.3 10.4 8.3 9.9 9.7 9.55 10.5 11.1	91 904 806 995 999 999 9999 9999	130 158 161 134 134 129 133 127 132 132 144 157	7777777777776	11 15 14 12 13 11 12 11 12 11 12 14	978149213061 466653°55656	6835798740104 887776798	1.02553535 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		66 84 7723 772777777777777777777777777777777	7.3 5.2	800NNNN0945	0.3	0.0	0.00 0.06 0.10 0.04 0.08 0.10 0.00 0.01 0.07 0.06 0.03	96 92	ANA ANANA ANA ANA ANA ANA ANA ANA ANA A
	TO RIVER AT K	NIGH		DING	TllN,		Sec. 1												
1/12 1030 2/0 1038 3/6 1500 4/5 1.11 5/1ć 0930 6/20 10.0 7/18 0910 1/22 0930 0/19.0910 10/17 1000 11/24 1120 12/12 1050	12500 7320 7670 2730 5330 5330 6680 3130 5720 11000 12800	4445564377355888	12.0 10.6 10.1 7.6 7.7 7.7	97 86 94 97 87 87 87 87 83 87 83 87 83 82 83 82 83 82 83 82 83 82 83 82 83 83 83 83 83 83 83 83 83 83 83 84 84 85 85 85 85 85 85 85 85 85 85 85 85 85	261 314 293 267 4520 5350 512 514 514 314 317	7.40828326430 7.3277.7.7.7.6.	17 20 12 21 26 18 23 21 16 17	13 11 15 14 16 12 19 13 12 11 12	22222401343 3553343	1.2468 1.8776 1.676 1.76 1.76 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8		92 112 113 114 155 188 144 203 201 140 98 92	4.9 5 <b>2</b>	18 20 18 15 22 36 18 26 32 19 21 21	1).9 1.2	0.3	0.01 0.07 0.00 0.13 0.19 0.21 0.26 0.25 0.25 0.25 0.25 0.24 17	250 309	38655613443065
SACRAMEN	TO RIVER AT 3		MENTO	T9N,	R4E, S		5												
1/17 1/40 2/15 0900 4/18 1330 4/19 0°30 5/16 0730 6/20 0000 7/15 1300 0/19 1015 10/11 1230 10/11 1230 11/15 1225 12/22 1400	22700 12600 8600 2°200 10200 8300 8370 11000 8660 74100	495409204270	10.0 10.6 10.4 0.7 0.2 3.4 5.4 5.4 7.2 10.0	사92 9902 9902 9902 9902 9902 9902 9902 9	105 217 176 131 167 212 221 267 269 169 178 (3.4		15 17 14 7.7 13 14 14 14 17 18 13 13 0 0	11	9.9 .0 12 16	1.12.320.22.5		20 97 03 72 73 93 92 121 126 08 03 2,	13	12 3.00 3.00 5.2 13 12 16 16 5.1 7.5 1.7	0.5	0.2	0.00 0.07 0.18 (.03 0.06 0.08 0.29 0.00 0.19 0.11 0.05 (.14		32 22 22 33 36 33 36 32 22 8 36 32 22 8 33 55 22 8 22 8 33 55 22 8 22 8

* Explanation of abbreviations: G. H. - Gage height borm - Parts per million % sat.- Per cent saturation Kx106 - Conductance micromnos at 2.0 C Ca - Calrium Mg - Magnesium Na - Soliti

K - Potassium CO3 - Carbonate HCO3 - Bicarbonate SOL - Sulfata Cl - Cloride NO3 - Nitrata F - Fluoride B - Boron

#### COMPLETE OR PARTIAL ANALYSIS OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1955 (contd.)

					Dissol	ved							Pa	arts pe	r M111	ion					
Date 1	Time	G.H. Feet	Flow c.f.s.	Temp	Oxyg ppm	set %	Kx10 ⁶	pН	Ce	Mg	Ne	К	00 ₃	нсоз	so ₄	01	NO3	F	в	Istal Solids	% Na
COTI	TONWOO	DD CRE	EK AT C	OTTO	NWOOD	T201	, R3W.	Sec.	7												L
2/7 0 3/3 1 5/11 1 6/15 1 7/13 1 8/17 1	1500 0900 1140 0915 1315 1230 1320 1310 1315 1345 1345		490 505 365 255 7850 253 73 93 73 90 750	45 55 53 70 78 73 66 66 48	11.7 11.0 10.0 7.5 9.0 9.1 9.4 10.0 11.3	7 87 92 34 100 100 108 89 106	263 278 263 232 250 214 172 165 181 266	7777777777776	26 27 24 13 21 14 14 14 25	10 12 11 7.14 12 8.8 7.14 12 8.8 7.14 11	11 12 11 9.50 9.3 9.3 8.3 8.5 11	.98 1.6 2.77 1.4 3 1.0	0000000000000	122 138 127 126 77 112 117 99 98 117	۶ 4.0	13 11 9 11 9 10 4 0 15	l 0.5	0.2	0.02 0.03 1.06 0.05 0.16 0.07 0.16 0.05 0.02 0.00 0.00	105	18 18 17 16 19 19 17 20 21 20 1.
STOP	NY ORI	EEK_AT	HAMIL	ON C	ITY 7	122N,	R2W, S	ec. 36	1												
2/7 1 3/7 1 4/1 1	1100 1230 1130 1045 0945		108 89 19 0 1	45 50 52 7	13.1 10.9 11.0 1.8	158 98 100 70	3 1 394 390 370	.2 8.0 1.1 7.5	3 42 39 39	15 16 16 18 14	17 20 18 18 18	0.7 0.6 0.9 0.7 1.9	4700	160 160 176 193 174	21	26 26 24 25	0.6	T.1	)4 0)9 100 0.10 115	219	19 20 19 19 20
COLL	USA TI	ROUGH	NEAR CO	DLUSA																	
2/9 1 3/8 1 5/13 0 6/17 1 7/15 1 8/19 0 9/19 1 10/14 0	1330 1150 1730 1600 0930 1040 1000 0850 1050 0930 1020 1415		965 603 323 249	4307688568776654 5568776654 50	10.8 10.3 10.3 7.5 7.0 7.5 7.0 7.5 7.0 7.5 8.0 8.0 10.8 10.8 10.8	91 108 950 88 83 84 87 93	1220 1670 1420 453 453 453 455 455 455 1020	888877764444 888877777-76	490 521 200 200 200 200 200 200 200 200 200 2	39 55 18 16 20 19 21 18 21 37	160 224 1852 551 551 551 551 551 551 131	2.6 1.2 2.6 57 6 2.5 2 2.6 5 7 6 2.5 2.8 1.7 6 2.5 2.8 1.7 6 2.5 2.8 1.2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2	0 12 10 0 0 0 0 0 0 0 0	281 328 319 158 174 205 205 207 183 210 288	57 57	107 164 126 28 28 29 29 29 20 35 77	1.1 1.2	0.2	C.21 0.37 0.15 0.16 0.20 C.22 0.22 0.22 0.22 0.22 0.22 0.23 0.23 0	200	555317554994502
SACE	RAMEN	ro slo	UGH AT	KNIC	HTS LA	NDING	TIIN	R3E	Sec.	20											
2/9 1 3/8 1 5/16 1 6/20 0 7/18 0 8/22 0 9/19 0 10/17 0 11/24 1			302 320 611 396 548 823 204 0	4870846676698	11.605936575857 10.5936575857 667799	91 99 99 76 77 83 83 84	366 477 451 4351 4351 4352 5322 5429 4190	7.880206584320 777777777777777777777777777777777777	27 33227 33227 3350 3350 3350 29	19 255 20 17 27 27 27 27 27 27 21 21	242 322 292 320 441 330 451 330 29	1.9 1.7 2.1 1.8 2.1 1.3 1.3 1.6 2.3 1.8 3.0 6	000000000000000000000000000000000000000	198 236 239 177 192 199 259 272 222 253 202 141	14 7.0	18 326 322 358 44 40 28	0.9 U.5	0.2	C.18 C.04 0.00 C.06 C.07 0.03 0.11 C.02 0.08 0.11 0.17 0.07	2 ₅ 1	26 27 29 31 30 29 29 29 29 20 20 20 27
PIT	RIVE	R NEAF	CANBY	т41	N, R9H	E, Sec	. 10														
4/1 5/11 6/15 7/13 8/17 9/14	1020 1020 0800 0830 0830 0830 0850 0920 0920		93 197 224 40 73 640 40	36 45 70 50 50 51 34	10.5 9.3 7.8 7.1 7.2 7.9 9.8 11.6	76 79 80 79 71 79 88 82	252 201 177 311 303 302 275 315 280	7.85668491	19 11 15 26 21 25 22 22 22 19	6.7 9.0 5.5 11 10 10 6.7	25 18 15 29 30 25 21 32 31	5.0 3.7 5.7 5.1 5.1 5.1	000000000000000000000000000000000000000	135 106 97 132 173 183 160 177 145	7.1 5.0	7.040705054 3.4.05054 46.8	1.3 0.6	0.4	0.00 0.12 0.13 0.16 0.19 0.10 0.10 .18 0.16	133	4354793145
	RIVE	R NEAF	MONTG	DMER	CREEL	<u>K</u> T39	SN. RIW		1												
5/12 1	1400 1400 1730 0800 1130		4000 780 4080 1640 4480	44 66 64 48	11.7 10.0 9.0 7.2 11.2	95 100 96 75 96	148 138 153 153 141	5.0 7.6 7.8 7.6	9.7 12 10 12 12	7.3 4.9 7.1 6.3 4.9	10 9.2 11 11 9.6	1.9 2.2 2.3 2.2 2.1	000000	90 80 91 92 79	3.5	3.5 3.0 4.0 4.5	0.4	0.2	0.0 0.06 0.05 0.05	103	28 27 30 29 23
		RIVER	ABOVE						1												
5/1( 6/22 7/13 9/13 11/21	093 1400 1350		1790 1130 1000 16 1570	552 554 546	10.8 10.7 9.2 10.5 11.5	102 96 87 98 96	92.7 97.4 97.4 96.5 7.0	8.0	11 10 9.3 11 9.6	2.6 3.8 2.1	4.0 4.1 5.6 4.4	0.9 1.2 1.4 1.5 1.2	0 0 0 0	57 50 57 50	2.3	1.0 1.0 1.2 0.9 1.5	0.2	0.0	0.02 0.01 0.02 0.00	83	18 21 21 21 21 21
	NEY C	REEK 1	IEAR BUI	RNEY	T35N.	, R3E,	Sec.														
4/1 ¢/11 ¢/15 7/13 /17			20 25 50 25 35	55	10.6 10.4 10.5 0.2 1.4 9.0 10.0 11.3	. 5	14.4 (5.4 (9.5 91.1 102 1.8 1.3 111 1.7	<. 2 7.2 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.2 7.4 7.2 7.4 7.2 7.2 7.4 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	11 3.5 5.1 10 10 11 11 10 10	4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	4.12	1.3 0.7 0.8 1.2 1.3 0.0 1.0 1.2 1.1	00000-00	59 142 328 66 710 701 70	0.5 0.0	508459 000 000000000000000000000000000000000	0.1 0.2	0.2 0.0	0.00 0.03 0.00 0.04 0.00 0.00 0.00 0.00	٦ <i>٤</i> بل	16 20 17 17 16 16 17

#### COMPLETE OR PARTIAL ANALYSIS OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1955 (contd.)

· · ·			Dissol								Pa	rts per	r M1111	lon					
	H. Flow et c.f.s.		0xyg ppm	en %set	Kx10 ⁶	pН	Ca	Mg	Ne	K	c03	нсоз	s04	Cl	NO3	F	В	Totel Solids	% Na
MILL CREEK	NEAR LOS M	OLIN	<u>os</u> t2	5N, R	2W, Sec	• 5													
1/11 0830 2/7 1015 3/7 0900 4/4 0830 5/11 1430 7/13 1450 3/17 1445 9/14 1430 10/12 1500 11/16 1630 12/14 1400	200 141 150 500 15 10 40 150	372440283999432	12.8 12.6 11.7 11.8 9.7 9.8 9.7 7.7 10.0 11.6 11.4	95 100 95 99 104 124 85 104 93 91	171 186 186 145 101 234 235 252 202 229 191	7777777777766	13 13 7.7 7.6 12 15 16 18 12 14 12	455541033151 455541033151	14 16 12 7.3 11 15 17 16 17 21 17	1.02010112000 1.011200 1.011200 1.011200 1.011200 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.01120 1.011200 1.011200 1.01120000000000		62 66 53 89 99 66 60	10 16	16 17 18 13 6 0 16 18 20 24 20	0.2	0.1	0.37 0.46 0.25 0.39 0.06 0.52 0.46 0.52 0.46 0.55 0.738	81 171	377 388 384 381 381 381 381 381 381 381 381 381 381
DEER CREEK	NEAR VINA	T21	N, R24																
1/11 0900 2/7 1045 3/2 0930 4/4 0930 5/11 1510 6/15 1510 7/13 1515 8/17 1510 9/14 1515 10/12 1540 11/16 1700 12/14 1420	166 1 7 289 467	3735685441437 89877447	12.1 11.0 11.3 11.5 9.1 10.0 11.3 11.6 11.0 9.9 11.7 12.0	89 88 94 98 99 130 113 100 124 115 94 102	145 144 121 88 185 3326 3326 183 170 144	7.14431864588 7.1864588	12 12 7.7 8.5 13 17 27 34 14 12 11	458089 800 120 120 120 120 120 120 120 120 120 1	8.6 9.0 4.8 10 14 16 15 13 12 9.2	1.3 1.6 1.5 1.3 1.3 2.7 9 3.1 4.8 6 1.6	0 0 0 0 0 0 0 0 0 0 0 0	823462 8862 1502 1513 20954 1210964	1.1 4.8	4442145004850	0.3 0.1	0.2	0.03 0.09 0.10 0.07 0.01 0.13 0.22 0.18 0.12 0.19 0.14 0.09	74 224	26 24 21 22 24 21 22 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20
BIG CHICO C	REEK NEAR	CHIC	00																
1/11 1200 2/7 1230 3/7 1245 4/4 1130 5/12 1115 6/16 0950 8/18 0950 9/15 0940 10/13 1010 11/17 1010	30 28 37 459	444466766544	11.9 10.2 11.6 11.0 10.0 8.7 9.1 9.3 9.6 10.0 11.3 11.6	90 83 96 92 100 92 103 100 98 98 90 99	166 132 130 142 130 185 201 206 210 209 223 164	7.6660 7.660 7.660 7.668 7.68 7.68	13 12 11 9.4 11 15 16 16 16 16 16 16 13	6.11290 5676030828 88839 8886	10 7.6 8.8 6.9 12 14 15 14 15 14 17 11	0.7 1.0 0.9 1.3 1.4 1.3 1.3 1.3 0.9	000000000000000000000000000000000000000	81 71 82 71 98 105 115 107 103 84	3.6 4.6	8.0 55.0 55.0 10 10 10 11 14 0	0.1 0.2	0.0	0.13 0.06 0.09 0.02 0.10 0.24 0.24 0.24 0.00 0.24 0.24 0.24 0.2	104 152	275352 22222 22222 2222 2222 2222 2222 2
BUTTE CREEK	NEAR CHIC	<u>:0</u> 1	22N, 1	R2E, S	ec. 36														
$\begin{array}{c} 1/11 & 1330\\ 2/7 & 1515\\ 3/7 & 1400\\ 4/4 & 1415\\ 5/12 & 1150\\ 6/16 & 1040\\ 7/14 & 1000\\ 8/18 & 1025\\ 9/15 & 1030\\ 10/13 & 1100\\ 11/17 & 1100\\ 12/15 & 1100\\ \end{array}$	162 84 164 75 120 204	3444566655444	13.0 12.3 11.54 10.4 9.9 7.6 9.5 10.1 10.9 12.1 12.0	99 100 96 95 101 102 80 97 98 101 95 98	102 105 103 80.2 67.6 93.6 101 108 108 118 127 107	48 3445444008 777777777777777	11 12 11 5.2 6.8 9.8 16 11 12 11 13 11	บอกง สุสง องอ สุอ สุสุสุขภาคา บรุษทร์ส	3084537713287 333323713287	0.6 0.7 0.8 0.7 0.8 0.7 0.8 0.0 1.0 0.9 1.1 0.9	000000000000000000000000000000000000000	666545666044	1.3 1.2	1.0000 1.000000000000000000000000000000	0.3	0.0	0.10 0.00 0.01 0.00 0.00 0.08 0.04 0.00 0.07 0.09 0.00	56 78	1355 155 155 155 155 155 156 4
INDIAN CREE	EK NEAR CRE	ESCEI	T MILI	<u>us</u> ta	26N, R9E	, Sec	25												
5/10 1050 6/14 1215 7/12 1400 8/16 1245 9/13 1215 10/11 1045 11/15 1245	1140 208 19 6 5 17 23	51 67 67 67 62 50 40	9.45 7.70 7.05 9.0	84 81 76 89 76 84 77	81.3 131 239 291 363 236 189	7.2 7.2 6.8 6.8 6.8 6.8	9.3 16 26 33 36 25 19	2.1 3.7 8.5 8.4 12 8.9 6.7	3.8 5.8 13 17 21 12 9.8	1.1 1.6 2.1 1.8 1.6 1.4 1.3	0000000	48 79 140 174 201 133 104	2.2	0.50 0.2 6.8 12 14.6 2.6	0.4	0.0	0.03 0.00 0.06 0.20 0.14 0.10 0.09	221	2082444122
FEATHER RIV					ALE Sec			2 1	2.0	0.7	0	- 4		2.0			0.15		16
1/11 1430 2/8 0940 3/7 1515 4/4 1530 6/16 1250 7/14 1120 8/18 1140 10/13 1200 11/17 1215 12/15 1220	1980 1300 1400 3910 2860 2030 1840 1840 1840 2010 2840	403654986853	13.4 12.3 11.6 10.4 10.1 9.6 9.4 10.4 12.4 12.6	104 93 99 97 105 106 100 100 101	100 114 112 37.9 59.1 101 112 115 129 123 124 120	7.4886444 7.677777777777777777777777777777777	11 12 13 6.1 6.8 9.7 12 11 14 11 12	34450000104704 34450004004	893832601666 3453244555554	0.791759244444	000000000000000000000000000000000000000	5642 5642 568 567 566 772 765	1.7 5.2	2.0 1.8 2.0 0.5 1.3 1.0 1.8 0.7 0.9 0.8 1.5	0.5	0.0	0.15 0.00 0.16 0.12 0.00 0.01 0.15 0.00 0.05 0.05 0.05	47 89	16 18 19 18 16 17 17 19 19 19
FEATHER RIV		LAUS	5 T12		C, Sec.	12													
$\begin{array}{c} 1/12 & 0.045 \\ 2/9 & 0.850 \\ 3/8 & 1.340 \\ 4/5 & 1.300 \\ 5/13 & 1.230 \\ 6/17 & 1.330 \\ 7/15 & 1110 \\ 8/19 & 1120 \\ 9/16 & 1.320 \\ 10/14 & 1.045 \\ 11/18 & 1.345 \\ 12/16 & 1110 \end{array}$	4790 2410 2840 14510 12400 1884 397 364 991 1450 4020	39402 5615999948 444	11.7 11.4 11.5 11.9 8.7 7.6 8.3 8.4 11.6	90 93 101 107 93 102 98 102 98 98 98	108 124 122 91.4 95.0 125 138 151 152 1420	7.24443 7.777777777777777777777777777777777	12 13 5.6 10 12 14 15 14 15 14 12	302073900209	188742417696	0.8 0.7 0.9 0.7 0.0 1.2 1.5 1.5 1.1	000000000000000000000000000000000000000	5665529,3456 678876 78876	3.0 4.0	00500500500500 540001050050000	0.3 0.2	0.1	0.01 0.02 0.00 0.00 0.00 0.00 0.07 0.00 0.04 0.11 0.03 0.06	52 97	17 15 17 14 19 16 19 16

#### TABLE 2 =

# COMPLETE R PARTIAL ANALYSIS OF THE WATERS OF THE SACRAMENTU, SAN JOA, IN HIVERS, THEIR TRIBUTARIES AND THEIR DELTAS + 1 + 5 contd.

		s lved							P	irts pe	r Milij	lor.				
G.H. Flow .ate Time Feet c.f.s.	Temp 0 F pp	xygen m isat	Kx10 [©]	pН	Ca	Ne	Ne	К	• 3	ноо3	SCL	Cl	NO3	F	B	Solids Na
UTH HONGUT CREEK NE	CAR BANG	OR TICN	, R5E,	Sec.	22											
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	77	5 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	143 141 153 147 -73 151	7.4	1 11 -3 11	.1 3 7.7 1.0 11  f.1	···· 11 17 23 11	1.1.1	201001100	401 63 778 99 10 63	î. ·	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		.1	······································	25 27 27 20 20 35 35 37 37
YUBA PIVER AT CMARTY.		CH. RCE.														
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	-5 11 -3 11 -50 - 0 -1 -7 - 0 -1 11	······································		+. 3 :35 ** +143 :	Nation in a thirte	1			6 - + 1 + 1 O + + 1	· · · · · · · · · · · · · · · · · · ·	٦.		2	.2 0.1		110000-1000-1000-1000-1000-1000-1000-1
YUBA RIVER AT MARYSVI		"N. R.E.		8												
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		· 2 1 · 2 1 · 3 123 · 1 200 · 1 33 · 1 33	10. 9.1 110 120 131 131 131	7.20 +233322	12 22 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1		n uno - unor-reau Nonovieu nomen ini		50000 r 000000		* L.		÷.2	.1	100 000 110 0	-1 13 13 13 13 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 14 14 14 14 14 14 14 14 14 14 14 14
BEAR RIVER NEAR HEAT	LAND T	13%, R5E	. Sec.	3												
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	.2     11       55     1.       60     1.       71     0       31     -       .1     0       76         11		92.4 197 164 351 106 262 30 262 30 30 40 240 240 240 240 240 240 240 240 240	7	10 21 35 11 30 32 31 37 26 29	2000 2000 126 133 1000 100	1-400 1500 040 1 MO	0.00017NNN0.000	00200	39 32 70 158 1527 1539 11-1 107 0	°.4 27	N 4 M 6 M 1 4 M 6 M 1 4 M 6 M 1 4 M 6 M 1 4 M 7 7 9 9 4	1	 	.11 .50 .00 .00 .50 .50 .50 .50 .50	13 12 11 3 70 13 9 9 10 12- 9 13 14 13
* AMERICAN RIVER BELOW		DAM T9N		Sec.	13											
/12 134C 8/3 1 30 1 2	500		61 346 74		31 7.6	3.7 12 2.1	2.3 5.3 1.1	3 1.2 0.01	U	32 61 32	v.5 1.0	3.2 62 1.4	00			-3 14 -30 8 64 8
AMERICAN RIVER AT TAC		T N, R	SE. Sec													
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-3 11 62 - 6 62 - 6 52 10	0 103 1 106 106 7 7 00	1 310 +17 70 341 77 NB 1 55 55 4 6 3 4 3 6 4 7 3 6 4	7.2277.299777.299777.299777.299777.2997777.2997777.2997777.297777.297777.11	10	MANUNANANANA	170 MMMANANA MANANANANANANANANANANANANANANAN	0.5573560	00 00000 000	5	۰.' ۱. ^۹		· · ·	-•0	.00 .01 .06 .05 .05 .00 .01 .02 .02 .02 .02 .02 .02 .02 .02 .02	44 44 17 21 25 155 155 19 18
SACRAMENTO RIVER AT S					Sec. 2					- 2						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 7 73 " 1 7 6 6	.3 851 .1 50 .1 50	157 224 155 155 155 155 157 -4- 17 -4- 120	1.4 7.4 7.4 7.4 7.4 7.4 7.3 7.4 4 3 4 3 4 3 4 3 4 3 4 1	11 17 133 14 14 14 14 14 14 14 14 14 14 14 14 14	C.15.31 C.15.31 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.1 C.1.5.	10 150 15 15 17 15 17 15 17	1.1 1.1 1.3 	0 00 00	-3	17 	11 12 1. 11 11 12 1. 1.	1		······································	3 29 1415 24 163 24 163 35 164 35 165 35 166 35 167 35 177 35

#### COMPLETE OR PARTIAL ANALYSIS OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1955 (contd.)

	Disso					Pa	arts pe	r M111	lon				
G.H. Data Time Faat		gan %sat Kx10 ⁶ pH	Ca Mg	Na	к	co3	нсоз	sol	Cl	NO3	F	B	Total % Solids Na
* SACRAMENTO RI	VER AT GREENS LAN	DING (NEAR HEAD OF	1		Τ6N,	RLE,	Sectio	n 22F					
$\begin{array}{c} 1/3 & 1230\\ 3/1 & 1300\\ 4/1 & 1115\\ 4/27 & 1053\\ 6/29 & 1255\\ 7/27 & 1310\\ 8/31 & 1130\\ 9/28 & 1215\\ 10/25 & 1232\\ 11/30 & 1212\\ 12/28 & 1325\\ \end{array}$	47 56 53 70 73 63 63 50 49	255 168 166 163 285 234 235 189 174 53	18       11         11       7.1         12       6.2         15       6.1         12       8.2         13       8.1         16       10         15       7.1         13       7.1         6.4       1.0	6.9 14 13 18 17 12 9.2	1.6 1.2 1.6 0.8 1.6 2.2 2.7 0	000000000000000000000000000000000000000	92 70 62 61 71 92 82 98 104 79 68 20	21 7.2 10 6.7 9.1 4.8 12 9.1 6.7 13 7.2	15 11 12 13 9.9 13 17 17 16 13 9.2 2.5	0 0.31 0 0.6 3.7 3.7			164       20         106       24         110       25         112       19         132       32         166       32         178       29         178       27         124       25         86       22
	HANNEL NEAR WALNU												
1/21 1430 2/14 1030 3/14 1030 4/18 0940 5/16 1230 6/20 1145 8/26 0950 9/23 0945 10/20 1220 11/25 1250 12/22 1115	144         10.6           50         10.2           52         0.8           561         9.3           69         8.9           70         6.2           72         6.0           64         4.6           53         9.5           64         8.9           55         9.8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12         5.6           18         10           13         7.4           11         6.4           12         7.6           13         8.4           15         7.9           18         11           15         7.4           10         4.5           8.8         4.5	18 9.2 9.6 11 15 17 17 17 17 17 12 8.9	1.0 1.2 1.1 1.0 1.9 1.8 1.5 2		63 98 78 69 14 69 79 18 79 18 85 48	10 14	7.0 19 7.0 8.2 12 12 12 12 12 12 12 12 12 12 12 12 12	0.7 0.6	0.1	0.21 0.06 0.12 0.16 0.06 0.06 0.14 0.12 0.07 0.06 0.08 0.00	27 31 24 27 35 34 161 29 29 26
* SACRAMENTO RI	VER AT TOLAND LAN	DING T3N, R2E, Se	ction 21										
1/31 1100 3/31 1002 4/27 1230 6/1 1055 6/29 1230 7/27 1020 8/31 1025 9/28 1340 10/25 1012 11/30 1020 12/28 1505	468 487 566 668 668 664 50 50	264 212 226 185 108 108 873 165 280 184 122		18 14 13 10					18 17 18 12				168 30 158 29 168 25 120 23 182 650 554 660 174 138 18
	VER AT RIO VISTA	T4N, R3E, Sec. 31		2.4					0.4				100 10
1/21 1200 2/14 1130 3/14 1300 5/16 1440 6/20 1400 7/20 1100 8/25 1410 9/23 1800 10/20 1110 11/25 1130 12/22 0900	$\begin{array}{c} 44 & 10.2 \\ 50 & 10.0 \\ 57 & 9.6 \\ 58 & 9.3 \\ 62 & 8.8 \\ 67 & 8.0 \\ 70 & 8.0 \\ 70 & 8.0 \\ 72 & 6.3 \\ 63 & 7.2 \\ 62 & 7.6 \\ 50 & 9.1 \\ 52 & 9.1 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12       7.1         18       12         17       9.1         12       8.3         11       6.0         10       7.1         13       9.6         12       10         13       9.6         12       10         13       9.6         14       8.7         88       4.5	18 14 11 18 18 23 14 13	1.3 1.2 1.1 1.2 0.9 1.1 1.9 1.5 2.0 1.5 1.7 2.3	000000	71 104 91 81 66 70 76 100 126 95 90 43	3.1 17	9.5 16 13 9.2 11 10 14 13 16 9.9 10 4.5	0.6 0.5	0.3	0.19 0.11 0.16 0.04 0.09 0.08 0.21 0.11 0.01 0.09 0.03 0.12	26 29 27 94 28 30 34 35 175 30 29 23
* SACRAMENTO RI	VER AT COLLINSVIL	LE T3N, R1E, Sect	ion 27										
4/27 1302 6/1 1020 6/29 1100 7/27 1050 8/31 1052 9/28 1420 10/25 1040	57 66 68 70 65 62	460 150 1334 6320 3429 4162 2477		51 10 191 1079 469 667 451				1	90 11 343 960 951 225 781				272 48 104 29 812 62 3944 74 2036 59 2534 70 1568 79
		DUGH T2N, R1W, Se	c. 1										
3/31 1120 5/2 1205 5/31 1115 6/27 1155 7/25 11055 8/29 1155 9/26 1150 10/31 1135 11/28 1050 12/27 1135	58 559 66 67 66 67 66 34 52	3831 454 552 3736 11670 10670 8351 6626 3289 138		54 72 2015 1725 1265 1030 833 8.7				332	95 21 065 728 634 634 870 12				2324 298 52 350 57 2312 66 7742 75 6686 70 5336 66 4082 68 1826 100 112 27
* CARQUINEZ STR		T2N, R3W, Sec. 13											
3/31 1200 5/2 1300 6/27 1005 7/25 1018 8/29 1250 9/26 1250 10/31 1255 11/28 1210 12/27 1030	588555555662 6662 525	19770 13998 11070 16846 29610 27430 24030 25460 25460 26040 186		17					24				14390 9426 7400 11568 21415 19766 28840 19890 16640 152 40

* Data copied from U. S. Bureau of Reclamation compilation. (Daylight Saving Time in effect April 24, 1955, through September 25, 1955.)

#### COMPLETE OF PARTIAL ANALYSIS OF THE WATERS OF THE SACRAMENIO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1955 (contd.)

			Diseol	Lved			Parte							arts per Million					
G.H. Date Time Feet	Flow c.f.s.	Temp	Oxy; ppm	zen.	Kx10 ⁶	рĦ	Ca	Mg	Na	К	c03		sol	Cl	N03	F	В	Total Solids	% Na
CLEAR LAKE AT	CLEAR L	AKE	OAKS	T14N,	R10W,	Sec.	24												L
1/12 1530 2/9 1420 3 0845 4/6 0830 5/17 1300 6/21 1300 7/19 1310 8/23 1240 9/2* 1150 10/18 0930 11/21 1400 12/12 1445		4445677924431	10.6 10.3 10.3 10.2 10.5 11.2 11.6 13.5	87 88 99 1246 1442 138 1106 116	290 294 294 294 296 298 301 311 340 331	0.0690 7.690 1.8 7.8 8.7 7.8 8.7 7.6 8 7.6	26 26 21 25 29 20 20 20 20 20 20 20 20 20 20	16 17 18 17 15 20 12 19 20	11 12 12 12 11 12 13 14 14 14		000005010040	166 166 164 168 168 164 180 16 175 187 181 185	12	280405005155 7666777778	0.4 3.7	0.0	0.88 0.79 0.64 0.82 0.87 0.87 1.1 1.2 1.3 1.3	158 176	15 16 17 15 16 16 16 16
CLEAN LAKE AT	LAKEPOR																		
$\begin{array}{cccccc} 1/12 & 1/20 \\ 2/5 & 1520 \\ 3/6 & 0030 \\ 1/c & 0915 \\ 5/17 & 1700 \\ 6/21 & 1350 \\ 7/19 & 1410 \\ 8/23 & 1330 \\ 9/20 & 1240 \\ 10/18 & 1045 \\ 11/21 & 1450 \\ 12/12 & 1600 \\ \end{array}$		500666036311 2556678836311	10.0 11.3 10.0 0.8 0.3 15.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0	82 95 92 115 111 106 182 93 82 83	2 ×0 2 ×1 2 79 2 88 3 09 3 23 3 23 3 23 3 23 3 23 3 23 3 23 3 2	7.8 5.3 8.2 7.8 7.8 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 7.8 7.8 8.2 7.8 7.8 8.2 7.8 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 8.2 7.8 7.8 8.2 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	2052247 2052247 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205220 205200 205200 205200 205200 205200 205200 205200 205200 205200 205200 205200 205200 205200 205200 205200 205200 205200 205200 205200 205200 205200000000	156 177 177 199 199 19	11 11 11 12 12 12 12 14 14	1.99 1.99 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2	000000000000000000000000000000000000000		10	555003052105 6666777688	0.5	0.0 0.4	0.65 0.74 0.36 0.93 0.70 0.95 1.1 1.1 1.1 1.2 1.1	155 184	16 15 16 15 16 16 15 17 17
CACHE CREEK BE	LOW LOW	ER L	AKE																
1/13 1000 2/10 0830 	4449 356 78 1 1	39145043566491	10.5 10.0 10.1 8.0 9.0 8.1 8.0 8.1 7.5 8	80 788 104557 667 80	247 268 312 311 321 311 324 361 355 351	7.888805238 7.887.88	21 245 329 27 207 30 30	12 13 17 14 16 18 20 20 20 20	11 135 133 133 135 15	1.970 3 N 15 N 98 9 6	000000000000000000000000000000000000000	123 130 142 183 179 184 192 200 198 200 199	12	25852005250 77787788 7788	0.8 0.1	0.0	0.37 0.37 0.32 0.96 1.0 0.90 1.2 1.2 1.2 1.3 1.1	177 185	19 20 19 16 17 16 16 16 17 17
NORTH FORK CAC	HE CREE	K NE			KE 11		óW. Se	c. 31											
1/12 1500 2/9 1330 3/9 0745 4/6 0730 5/17 1200 6/21 1200 7/19 1210 8/23 1120 9/20 1045 10/16 0845 11/21 1315 12/12 1250	41224	46 548083090661 5477830906551	13.4 12.3 10.40 9.5 9.5 8.6 8.5 10.9	112 86 89 100 114 118 108 107 89 128 97	426 359 402 458 518 672 667 603 632	88888777776	222222233301057	24125037226974	222200000400	1.20 1.33 1.35 1.20 2.09 2.09 2.09 2.09 2.09 2.09 2.09 2	1470055000000	176 168 185 212 174 193 211 254 257 251 193 222	11 13	5448487430 135688888	0.5	0.0	11121277956017	205 366	2425537988 222222228 22222228 22222228 23379
CACHE CREEK NE	AR CAPA	<u>Y</u> T	10N, F	2W, S	ec. 8														
1/14 0930 2/25 1020 3/22 1205 4/6 1630 5/16 1230 7/18 1030 0/19 1300 10/17 1120 11/24 1000 12/13 1220	125 10 18 83	412 553 760 60 80 50 50	12.5 10.0 10.4 0.2 9.1 9.9 10.1 11.1	98 91 107 108 114 100 108 36 98	8255 72348 72348 4880 7548 886 734	8.3 8.1 8.4 7.6 7.6 7.8 7.6 7.8 7.6	439 11 377 373 334 742	346 508 277 232 332 37	71 61 69 39 35 30 57 28	2.97857795 3.220.5533 2.220.5533 3.3	10 08 04 09 57	264 260 276 280 266 253 262 262 288 248	22 17	100 80 78 88 40 32 36 73 94 128	0.6 2.4	0.1	3.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.064555561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.06455561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0655561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.0555561 8.05555600000000000000000000000000000000	312 264	39 35 36 37 28 28 28 34 341
PUTAH CREEK NE	AR WINT	ERS		R2W.	Sec. 21														
1/13 1445 2/10 1250 3/9 1530 4/6 1450 5/10 1320 6/10 1320 6/20 1320 8/14 1,10 8/21 1250 9/14 1,10 10/17 1300 11/2, 0900 12/13 1110	4 2 15 13	4500108400599	12.2 11.7 9.8 10.4 10.4 9.2 9.6 8.5 2.0 9.7 11.9 11.4	100 103 87 105 110 111 111 105 22 102 102 99	682 814 789 798	8.24444 8.85 8.85 8.86 77 8.86 7 8.60 1.55 7 4.55	2214354473330.777 2214354473330.777	1400,1850,440,1	13448 148 158 70 558 13	0.9 1.0 1.6 1.8 2.5 2.6 2.7 1.8 1.5	10 12 0 13 18 25 13 6 0	240 239 285 285 285 372 372 372 372 372 372 372 372 372 372	23 54	12 10 10 10 10 24 50 352 38	0.5	0.1	0.29 0.36 0.12 0.52 0.38 0.85 1.1 1.7 1.7 1.4 1.4 0.71	280 476	11 12 13 12 20 22 20 23 21 17
• PUTAH CREEK NE	AR WINT		TON,	RCW,	Sec. 28	3													
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	116	61 68 62			50 619 695 619				14 26 37 27					13 23 62			0.4 1.18 0.65	304 406 432 362	12 18 23

 Data copied from ". S. Bureau of Reclamation compilation. (Daylight Saving Time in effect April 24, 1955 through Sept. 25, 1 · 5.)

			Dissol	ved							Pa	arts <u>pe</u>	r Mill:	ion					
Date Time	G.H. Flow . Feet c.f.s.	Temp oF	Oxyge	en Gsot	Kx10 ⁶	pН	Ce	Mg	Na	K	co3	нсоз	so ₄	Cl	NO3	F	В	Totel Solids	% No
* CACHE SI	OUGH BELOW LI	NDSA	Y SLOU	<u>GH</u> T	5N, R3	E, Sec	. 31												
1/31 1130 5/12 1330		46 64			282 168				20 9.2					20 9.9				190 118	31 24
5/12 1330 7/27 1120 11/2 1128		71 60			214 244				15 12					15 13				172 136	30 21
LINDSEY	SLOUGH NEAR R									- 0									
1/21 1245 2/14 1300		46	10.3 10.1 9.5	86 90 88	334 338 311	7.5 7.4 7.7	19 20 18	15 16 15	25 27 24	1.8 1.5 2.9	000	119 124 118		27 25 24			0.41 0.20 0.18		33 34 32 28
3/14 1340 4/18 1230 5/16 1350		51488	9.0 9.4	87 102	202 187	7.7	14 13	15 8.8 8.6	13 12	1.5	0	89 78	15	12 12	0.7	0.1	0.11 0.05	121	27
6/20 1315 7/20 1000 8/25 1500		71 70 72	8.7 8.1 8.1	97 90 92	175 230 230	7.6	11 15 15	7.7	13 20 18	1.2 2.2 1.6	0	76 91 101		11 13 14			0.12 0.12 0.09		32 36 34
9/23 0835		63 62	6.7 7.3	69 74 78	349 236	7.5	20 15	9.4 9.1 15 10 8.4	29 17	1.9	0	138 104	24	26 14	0.6	0.3	0.25	209	36 31
11/23 1305 12/22 1000		48 53	9.1 8.8	78 80	212 205	7.6	15 12	8.4 10	15 15	2.0	0	97 77		12 12			0.09 0.16		30 30
	S RIVER NEAR M				N, R8E		1			- (	~	~ 7					0.00		19
1/18 1355 2/15 1030 3/15 0900		42 46 47	11.9 11.6 11.8	94 97 100	105 122 82.2	7.1	10 11 8.0	4.4 6.1 3.9	4.7 4.6 3.6	0.6 0.9 0.9	000	51 60 43		1.8			0.00 0.02 0.03		16 17
4/19 1015 5/20 1210		48 58	11.7 9.7	100 94	116 59.9	7.7	8.2 8.8	3.9 7.2 0.5 2.7	4.2	0.9	0	43	2.7	1.4 0.5 0.8	0.3	0.1	0.00		15 23 20
6/24 1220 7/18 0830 8/22 1000	h	72 72 80	10.0 6.3 10.7	113 72 132	66.8 111 120	6.8	6.8 8.1 11	4.3	3.4 5.6 4.8	1.0 1.7 1.3	0 0 3	40 46 65		2.5			0.06		23 17
9/20 1120 10/17 1010	12 13	71 64	10.1	114 95 88	139 132 96.8	8.1 7.7	13 11	6.1	53 6 2 4 4	1.3	0	65 77 76	2.0	2.5	0.0	0.2	0.02		16 18
11/21 0920 12/19 1030	60 352	49 49	10.1	88 92	96.8 106	7.3	9.2 9.2	6.3 3.4 4.6	4.2 4.4	1.4 1.0	0	48 47		3.5 3.0			0.00		19 18
	NE RIVER NEAR				4N, R1		1			0.7	0	22		2 6			0.00		22
1/18 1530 2/15 1140 3/15 1030	812 666	47 50 48	10.9 11.3 11.9	92 100 105	76.9 51.4 81.5	6.7	6.1 5.1 6.3	2.4	3.4	0.7 0.6 0.8	0	22 24 24		3.5 3.0 3.5			0.00		22 25 26 29
4/19 1200 5/20 1040	59 698 704	49	12.0 11.4	103 99	48.6 53.4 50.1	0.0	6.3 3.2 7.2	د ۱۰	3.1 4.0	0.8 1.7	0	21 25 27	2.6	3.52	0.2	0.2	0.02	43	26 29
6/24 1030 7/18 1000 8/22 1130	649 649 654	494 54 50	11.4 11.5 11.2	99 107 107	50.1 74.9 54.1	9 6.8	7.2 5.7 6.0 2.8	2.1 1.5 2.9	3.1 4.8 3.1	0.7 1.6 0.7	0	27 19 27		3.5 3.0 3.0			0.05		22 31 25
9/20 1350	654 649	56	10.0	95 86	45. 41. 40.	3 7.5 3 7.0 9 7.3 9 7.0	5.7 3.8 4.0	0.3	2.6	0.7	0	21 21	1.4	1.9 0.7	0.0	0.1	0.14 0.08	34	31 25 23 20
11/21 1120 12/19 1240		58 54 52	9.5 10.2	88 92	40.9	97.3	3.2	0.5	2.8	0.7	0	19 17		2.2 3.2			0.00		32 25
	NE RIVER BELOW		SUMNES	RIVEF	-	R5E.	Sec. 2	29B	2 7					r 0				112	17
4/1 1050 4/27 1030 6/2 1110		57 53 67			94 111 58		ł		3.7 3.7 3.0					5.0 3.9 3.9				100 60	14 22
6/29 1220 7/7 1345		72 73 74			58 102 190				5.5									106 130	23
7/27 1335 9/1 1000 9/28 1135		74 74 66			206 227 93				15 17 6.0					15 17 5.7				178 140 62	33
10/25 1300 11/30 1300		63 50			80 56				3.9 3.4					5.7 5.7 3.9				50 52	21 26
MOKELUM	NE RIVER AT WO	DODBE	RIDGE	τųν,	R6E. S		1												
1/19 1110 2/15 1730 3/17 1520	913 445	44	11.2	91 93	68.9	9 6.7 6 7.0 8 7.1	6.58 9 0 L	1.7	3.8 3.0	1.6	0 0 0	23 24 26		3.0			0.03	5	25 22 20
L/21 1350	19	455458	10.2 10.0 9.2	95 94 100	59.8 59.8 78.1	5 7.2	4.0 8.4	1.202.2	3.4 4.5 4.2	0.9 0.8 0.9	0	20 26 37	4.2	3.0 3.4 4.2	0.5	0.2	0.03	. 58	24
6/23 1230 7/15 1100	11	70 70	8.2	92 91	81.	3 6.8	8.4 7.6 6.1	2.2	4.9	0.9	0	35		3.2			0.02	l.	28
8/26 0820 9/16 1250	261	63 63 61	8.8 8.8	88 91 89	56.	9 7.1 5 7.3 2 7.0	6.4 4.9 4.6	2.2 1.3 1.9	3.8 3.2 2.6	0.7 0.7 0.8	0	33 26 25	3.0		0.0	0 0.1	0.03	3 41	27 22 23 22
10/14 0925 11/18 1000 12/16 0910	300	51 49	9.7 10.3	87 90	41.1	4 6.9	3.9 4.4	1.5 1.7	2.3	0.7		23		2.2			0.00	)	23 22
	NE RIVER BELOW		ORGIAN	SLO		3N, R4	E, Sec	. 7											
4/1 1230 4/27 1010		57 55			161 133 146				6.9					8.5 6.7 11				134 104 140	20
6/2 1310 6/29 1335 7/27 1200		66 70 72			204 213				9.2 17 15 17					16 15				156 190	36 31
7/27 1200 9/1 1230 9/28 1050		74 66			240 256 192				17 20 12					15 18 11				160 162 126	31 34 27
10/25 1145 11/30 1125		63 50			213				21					12				144	43

* Date copied from U. S. Bureau of Reclamation compilation. (Deylight Saving Time in effect April 24, 1955, through September 25, 1955.)

#### TABLE 225

# COMPLETE OR PARTIAL ANALYSIS OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1955 (contd.)

					Disso	lved							P	arts pe	r M111	ion					]
Dete Ti		G.H. Feet	Flow c.f.s.		Oxye ppm	en Sset	Kx10 ^C	pН	Ce.	Mg	Ne	ĸ	co3	нсоз	so _l	Cl	NO3	F	₿	Total Solida	% Na
CALAV	VERAS	RIVE	R NEAR	JENN	Y LINE	. T3N	, R10E,	Sec.	22												
2/15 13 3/15 11 4/19 13 5/20 09 6/24 09 7/18 11 8/22 13 12/19 14			2850 91 6 104 109 162 171 84	42 57 53 62 72 81 51	11.8 11.2 10.0 11.3 9.7 9.6 5.0 6.5 9.0	93 101 58 108 100 98 102 81 88	138 230 311 198 185 197 222 254 243	7.237.55	1452 153 122 122 122 122 122 122 122 122 122 12	100 20 12 577-9 12 	11 11 10 11 10 11 10 10 10 10 10 10 10 1	+.1 1.2 1.2 1.2 1.2 1.2 1.7	0000000000	62 110 148 98 102 109 108 141	9.6	3.00 10 8 5 N 0 8 0	0.4	J.1	0.10 0.03 0.04 0.05 0.00 0.04 0.20 0.12 0.17	120	16 14 15 14 16 13 16 13
1/10 13	350	IN MI	VER AT 116	49	11.4	99	21E. Se 70.1	7.0	6.9	0.6	€.0	1.0	0	26		6.0			0,12		39
2/11 09 3/9 1/12 08 5/10 05 6/14 08 7/13 07	900 350 350 350 350 350 350 350 350 350 3		53 75 133 30 171 190 169 124 62 774	4 10 00 N 48 0 M8	11.1 11.6 13.0 12.1 12.4 11.5 12.3 10.0 11.0 10.2 11.3	93 105 113 107 108 104 114 06 97 84 97	70.00 49.99 5075 521 521 53.50 53.50 55.33 55.33	6. · · · · · · · · · · · · · · · · · · ·	250057036000 512443440000	93147000 93147000 93147000 93147000 93147000 93147000 93147000 93147000 93147000 93147000 93147000 931470000 931470000 931470000 931470000 9314700000 9314700000 9314000000000000000000000000000000000000	316877851MN	0.8 1.1 0.8 0.7 0.8 1.2 0.6 1.0 0.0 1.0 0.7	00000000000	2,8,2,2 2,2,2,2 2,2,2,2 2,2,2,2 2,2,2,2 2,2,2,2 2,2,2,2 2,2,2,2 2,2,2,2 2,2,2,2 2,2,2,2,2 2,2,2,2,2 2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,	1.2 2.0	OMULATIONNONNA AN	0.0	0.2	0.04 0.06 .02 0.02 0.02 0.02 0.02 0.02 0.02	45	we he fee for the for
* <u>SAN J</u>	JOAQUI	IN RI	VER AT	WHIT	EHOUSE	T13	S, R15E	. Sec	250												
$\frac{1}{4}$ /12 13 $\frac{1}{26}$ 13 $\frac{5}{10}$ 12	315 230	0.47	1 38 28 55	60 58 51 65			127 89 95 97		6.6	2.9	8.7 7.4	1.2	0	37	13	8.2 6.7	0			72 50 68	30 35
5/24 09 6/7 10 6/28 11 7/12 10	300 920 030 130 045 (	3.28	29 20 144 39	74 57 63 67			101 104 166 94 93		18	5.4	ć.9	1.2	0	84	2.9	7.5	0			74 70 122 60 54 52	18
7/26 13 8/16 11 8/30 12 9/13 09 9/27 09	300 -0 120 200 250 250 250	c.U5	17 35 30 22 22	68 72 74 66 60			76 101 89 83 105 135		4.8	2.2	+.2	1.2	0	35	1.0	5.7	0.6			52 66 72 58 66 108	38
	JOAQUI	IN RIV	VER NEA	<u>r me</u>	NDOTA		. R15E,		7												
3/10 09 4/11 16 5/9 15 6/13 14 7/14 12 6/16 10	100			454630 7060 7780 7780 7780 7780 7780 7780 778	11.8 0.7 10.0 0.8 9.5 3.8 8.0 7.3 0.1 0.9	93 95 100 106 104 99 100 89 88 86 97	83.0 184 692 517 537 401 303 466 595 595 595 595 899 741	6.227 7.807 7.487 7.4477 7.577 7.577 7.5775	7.7 13 35 30 27 23 19 21 22 26 46 36	1.3 4.3 17 1.5 17 9.0 8.7 12 15 16 21 18	8.3 18 14 55 43 13 00 99 99	0.08 7 2 5 0 0 - 5 m - 4 0	000000000000000000000000000000000000000	39 68 100 114 92 76 95 102 122 158 142	52 40	5.2 17 104 76 81 60 31 73 106 96 152 125	1.0 0.9	0.3	0.17 0.02 0.38 0.17 0.18 0.17 0.16 0.09 0.18 0.21 0.30 0.25	328 327	131688405555
		DOTA (	CANAL N		MENDOT		3S, R15		1												
2/9 10 3/7 17 4/11 17 5/9 16 6/13 15 7/14 12 8/16 10	155			430552537756590 7776590	11.52.65.40.05.40.6	93 108 100 98 100 102 96 98 88 88 88 88 88 84 92	940 1296 1522 1522 1552 1459 1559 1559 1559 1559 1559 1559 1559	7.8	45805406120020 2505206120020	21 27 14 15 13 13 11 14 20 21 21	116 162 642 428 51 735 104 117	22255711800022 33222232323255	000000000000000000000000000000000000000	136 141 955 98 755 98 93 156 157 157	46 42	132 145 88 60 53 65 108 143 146 146	1.9 1.0	0.3	0.61 0.82 0.16 0.15 0.17 0.18 0.01 0.19 0.26 0.23 0.35	277 331	55512444855555
	JOAQUI	IN RIV	VER NEA		S PALO	_	15, R13	E, Se	c. 12												
2/9 09 3/10 11 4/11 15 /9 14 6/13 13 7/14 13 5 16 09	125 130 1320 1320 1320 1320 1320 1320 1320			442 43 42 43 440 6 7	11.6 10.54 10.37 7.8 5.56 7.4	95 92 108 110 100 93 65 7 3	169 263 630 558 398 398 398 200 614 53	······································	12 17 20 32 32 52 50 4	2.8 6.2 14 13 10 10 12 15 14 15	18 31 55558 58 5777 73	1.1 2.8 3.0 2.3 2.0 3.5 3.5 3.5 7		53 79 96 100 115 92 94 101 106 115 129	55 43	19 35 30 65 47 110 112	1.2 U.6	0.4 0.1	0.16 0.04 0.34 0.16 0.13 0.16 0.10 0.18 0.16 0.13	320 339	445444455551

 Data > pled fr m U. S. Bureau of Reclametion compiletion. Daylight Saving Time in effect April 24, 1454, through September 25, 1455.)

			Dissolved						Pa	arts pe	r Mil:	lion					
Date Time	G.H. Fl Feet c.	ow Temp f.s. ^o F	Oxygen ppm %set	Kx10 ⁶ pH	Ca	Mg	Ne	К	co3	нсоз	so ₄	Cl	NO3	F	В	TODAT /	% Na
* SAN JOAG	UIN RIVER	AT TEMP	LE SLOUGH	Tlls, Rl3E	Sec.	12A											
9/26 1030 10/11 1250 11/16 0900 12/16 0910		67 69 49 50		727 665 814 609	31 33 42 31	18 20 20 16	87 69 88 59	5.1 2.0 4.7 2.3	0000	120 128 141 191	58 49 71 55	132 114 133 91	0000			426 416 456 360	548 547 547
	UIN RIVER		ONT FORD BI	RIDGE T7S.	R9E.	Sec. 2	4G										
1/25 1330 2/25 1110 3/30 0950 4/28 1345 5/26 0935 6/28 1136 7/28 1135 8/29 1050 9/27 1300 10/12 1005 11/15 1310 12/16 1540	59.3 4.60 58.97 58.21 57.92	46 5571 666 7708 663 552		785 1714 2182 1079 1128 1156 1233 1146 1829 2301 2301 2301 2562	56 78 97 74 87	30 52 59 65	97 230 276 123 133 131 141 221 281 225 343	1.6 4.3 3.9 4.7 4.3	0	175 191 199 210 207	123 182 247 227 305	111 297 469 193 194 210 217 212 390 501 401 532	0 1.9 3.1		0.3	1448 630 722 732 836 700	555554545560
* SAN JOAG	UIN RIVER	ABOVE S	ALT SLOUGH	T7S, R10E	Sec.	26											
9/27 1230 10/12 1035 11/16 1325 12/16 1525		72 57 50 51		1579 1707 604 2009	37 55 25 70	34 25 12 27	242 26 79 313	4.3 2.0 4.7 4.3	0000	274 279 163 300	83 105 30 118	312 348 89 430	0 1.2 0.6 1.2			934 1000 334 1168	69 69 60 <b>70</b>
* <u>SAN JOAG</u>	UIN RIVER	ABOVE M	ERCED RIVE	<u>я</u> т7s, R9E	Sec.	3G											
1/27 1215 2/25 1150 3/28 1215 4/26 1125 5/27 1225 6/24 1215 7/29 1315 8/26 1210 9/23 1215 9/27 1400 10/12 1107 11/15 1240 12/15 1530		47 660 72 80 71 68 93 55 55		1067 2091 2448 941 1186 1416 1330 1913 2829 2643 2859 3004	78 110 91	61 74 65 31	128 288 317 110 139 137 168 158 241 253 363 363 331 407	5.97	000	206 214 224 215	240 365 335 414	1559 344536 3560 3882 34621 34621 34629 34621 355 4621 34629 34621 355 4621 355 4621 355 4621 355 4621 355 4635 4635 4635 4635 4635 4635 4635	0 0.6 1.2 4.3			668 1406 1570 648 746 710 860 812 1120 1280 1280 1886 1536 1906	50 55 55 55 55 55 55 55 55 55 55 55 55 5
* SAN JOAG	UIN RIVER	AT HILL	S FERRY BR		ιя́Ε. 3	Sec. 3H											
9/27 1330 10/12 1113 11/15 1230 12/15 1520	1.61 1.52 1.6 1.67	69 64 52 53		10 <b>73</b> 1246 1562 1416	43 52 53 56	27 33 42 34	126 154 202 178	4.3 2.0 3.9 2.3	0000	157 160 180 156	104 137 176 178	187 237 281 257	1.2 2.5 1.2 2.5			658 800 928 878	55 55 58 58
* <u>SAN JOAG</u>	UIN RIVER	AT CROW	S LANDING :	BRIDGE T6S	R9E	Sec.	7в										
1/27 1230 2/25 1210 3/28 1250 4/26 1140 5/27 1240 6/24 1230 7/29 1330 8/26 1225 9/23 1230 10/12 1220 11/15 1215 12/15 1455	44.7 42.7 23.8 42.2 42.3 42.0 42.1 42.25	48 566 700 80 796 696 55 55		755 1379 1589 671 1023 924 1082 920 1067 1240 1227 1014			95 184 189 80 109 112 126 108 131 161 244 10					104 233 289 105 170 153 185 149 231 213 261				472 9848 97120 56770 56586 773648 77614	555555555555555555555555555555555555555
		AT PATT	ERSON WATE	R COMPANY	155, E	₹8E, Se	c. 15M										
1/27 1300 2/25 1225 3/28 1305 4/26 1155 5/27 1250 6/24 1250 7/29 1345 8/26 1240 9/26 1515 10/12 1300 11/15 1150 12/15 1403	38.5 36.0 36.1 36.4 36.2 36.0 36.0 36.0 36.2	50 55 60 70 70 70 70 70 70 52 53		786 11/12 733 1039 902 1057 1067 11/18 1002 1388 1380 1029	46255 45	254 31 25	97 193 155 84 133 112 115 127 135 120 176 168 121	4.3 2.0 3.9 2.3	0000	173 188 180 168	93 149 141 110	110 237 224 112 187 157 189 176 203 172 262 230 160	1.2 1.2 2.5 4.3			490 968 790 446 662 666 648 666 666 892 772 626	55555545555555

* Deta copied from U. S. Bureau of Reclamation compilation. (Daylight Saving Time in effect April 24, 1955, through September 25, 1955.)

## COMPLETE OR PARTIAL ANALYSIS OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1955 (contd.)

		Dissol							P	arte pe	er Mil	lion				() - A - 2	L
G.1 Date Time Fee		p Oxyge ppm %	set Kx10 ⁶	рĦ	Ca	Mg	Na	К	co3	мсо ₃	soy	Cl	N03	Р	В	Total Solids	No
1/13 1530 2/8 1145 3/7 1330 4/11 1245 5/9 1200 6/13 1110 7/15 0730 8/15 1130 9/16 1.20 10/15 0950	RIVER NEAR G 620 45 680 52 510 59 500 64 760 68 600 72 240 74 260 75 295 63	10.3 9.8 11.5 14.5 11.0 10.0 7.3 10.5 10.0	T4s, R7E. 85 825 88 1180 113 1390 151 1060 120 782 114 1060 123 1020 108 1130 95 1370 83 1310	7.7 7.7 8.1 8.2 8.1 7.7 7.7	39367926132	178 5338 528 272	104 154 133 955 148 148 144 144	PUNUE FOR DO		175 200 194 178 190 201 199 209	82 121	116 174 215 177 114 176 191 159 184 234	2.8	0.4	0.31 0.45 0.42 0.32 0.38 0.38 0.41 0.36 0.38	454 656	5777745545567667
11/17 1310 12/15 0900	295 63 290 49 340 50	9.2 9.5 8.2	95 1370 83 1310 72 1150	7.5 7.3 7.3	58 54	31 27	165 154	4.0 3.8	0	202 184		222 191			0.35		56 57
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	.9 53 60 70 .9 70 80 72 .0 70 1 71 52 .55 52		798 1453 745 1133 1133 1130 1091 1110 1178 1378 1526 1154	TĻS, R	51 60 61 52	295 338 28	95 189 169 88 139 131 126 126 136 144 168 194 140	4.3 2.0 3.9 4.3	0 0 0 0	192 197 209 178	123 170 173 134	111 242 243 117 196 185 202 243 260 185	0 255			502 8572 448 7300 704 656 818 866 890 710	5271131823566755
<ul> <li><u>SAN JOAQUIN</u></li> <li>9/26 1430 23.</li> </ul>	RIVER AT WEST	T STANIS	LAUS IRRIG	ATION	1.8	28	130 IS		10 0	191	111	183	0.6			776	51.
10/12 1100 11/15 1030 12/15 1305	70 53 52		1344 1793 1383	_	51 72 61	38 54 36	165 200 165	4.3 2.0 2.7 4.3	0000	180 221 195	141 221 163	251 315 240	1.2 3.1 3.1			776 826 1046 850	オッシュオ
1/13 1450 2/11 1430 3/7 1230 4/14 1540 5/17 1210 6/17 0820 7/15 0900 8/19 1130 9/16 1100 10/13 1040 11/17 1350 12/15 0940	RIVER AT MAZE 1840 56 2160 56 520 70 450 75 420 76 490 69 500 69 500 50 730 50	9.8 10.1 10.7 12.1 12.6 9.2 7.8 10.5 9.1 7.8 8.0	82 548 90 562 101 692 128 1060 141 1120 102 985 91 1010 124 1020 99 1040 99 1040 99 1120 69 912 70 687	Sac. 3 7.3 7.7 7.7 8.3 8.4 8.0 7.5 7.8 7.5 7.7 7.7 7.3 7.3	28 26 3549 5542 5555 542 5555 542 555 542 555 542 555 542 555 542 555 542 555 542 555 542 555 542 555 542 555 5455 5455 5455 5455 54555 54555 54555 54555 54555 54555 545555 545555 545555 5455555 54555555	11 13 16 25 24 21 22 24 25 20 15	64 64 79 124 130 144 116 138 108	NUNON0808008	000000000000000000000000000000000000000	110 94 108 188 169 189 189 187 194 1858 148	75 48	81 86 112 213 216 199 198 191 187 206 174 124	4.5 2.8	0.3 0.4	0.67 0.17 0.28 0.29 0.27 0.31 0.30 0.38 0.38 0.36 0.18 0.14	629 567	143000000000000000000000000000000000000
	RIVER AT EL S	SOLYO RA	NCH T38. 613	R7E, S	ec. 2	9F	66					97				380	1.7
2/25 1320 3/28 1345 4/26 1305 5/27 1345 6/21 1355 7/29 1435 7/29 1430 8/26 1325 9/23 1350 10/12 1420 11/15 1015 12/15 1245	50 53 70 60 71 71 80 73 70 52 52		708 1270 775 1148 1029 1008 1081 1032 1136 1295 693				81 139 82 139 107 115 116 122 103 232 83					226 226 229 235 202 201 210 190 212 219 126				3802 464 475 4822 475 4822 6628 6628 6628 6628 7990	4508635071902
1/13 1\15 2/11 1500 3/15 1530 4/15 0900 5/17 1110 6/17 0 50 7/15 0045 1/15 0045 10/13 1200 1/17 1\130 12/15 1015	RIVER         NEAR         VI           2650         4,5         2,460         51           20,40         56         719         60           719         60         739         70           1106         68         4,39         76           4,39         76         61.3         68           10,60         67         1140         51           17,60         50         776         50	10.1 10.0 10.1 11.6 12.1 9.5 10.1 12.0 10.2 10.8 8.8 8.2	T3S, RCE, 84 435 90 521 96 540 116 912 135 660 104 4 1 119 907 142 970 116 946 79 882 72 516	777888888777733	13 246 289 255 255 255 255 255 255 255 255 255 25	10 13 24 21 21 23 22 43 18 12	459 599 1042 1042 1047 1072 57	N N N N N N N N N N N N N N N N N N N		103 955 1668 1784 1885 1819 97	321 54 560 322 61 652 9	60 78 87 168 173 164 174 164 164 164 164 185	50-499 38 326 58 32 1 3 3 1 0 3 4 4 2 2	0.4 0.2 0.2 0.3 0.4 0.2 0.2 0.2 0.3 0.3 0.3	0.01 0.16 0.25 0.21 0.08 0.27 0.24 0.24 0.18 0.16 0.17	251 297 3514 514 514 514 514 5346 5346 5346 5346 5346 5346 5346 534	4510905911110
1/4 1100	L RIVER NFAR \ 48	FRHALL.		, Sec.	13B 21	10	43	3.4	0	76	33	61	3.2			230	49
2/1 1110	50 49 58		430 539 162 965		26 23 52	15 12 22	43 53 48 97	3.4 3.5 2.7 2.7	0 0 0	76 110 22 160	33 51 48	72 183	3.2 1.9 1.9 2.4		0.18	330 274 572	49 47 48 40
2/2 1 50 3/3 0 30 4/25 1420 4/2 5 1420 4/3 1415 -/31 1415 -/31 1430 7/7 1120 7/2 1120 7/2 5 1321 -/26 1 45 10/31 1455 11/26 6-31 12/27 103	62 ( 72 66 76 76 70 55 55		684 1048 218 795 498 893 498 893 498 893 495 53 102		39 12 42 47 43 49 41 32 3.	15 20 21 21 22 19 15 2.4	70 5 19 31 96 88 102 7 67	2.7 1.2 0 2.7		135 44, 151 163 170 177 134 106 24	46 11 42 41 42 55 41	118 206 38 144 170 143 164 150 116 3.2	2.5 0.6 16 1.2 2.5 1.9 1.9 0 1.9			420 424 478 556 506 550 506 2506 2506 2506 2506 250	47 438 509 519 51 50 36

 Dets c pied from U.S. Bureau of Reclamation Compliation. (Deylight Saving Time in effect April 24, 1955, through September 21, 1955)

#### TABLE 225 COMPLETE OR PARTIAL ANALYSIS OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1955 (contd.)

0.11 53		olved						Pa	irts pei	- M111	ion					
G.H. Flow Date Time Feat c.f.s.	Tamp Oxy ^O F ppm	%sat Kx10 ⁶	рH	Ce	Mg	Na	K	^{co} 3	нсоз	so ₄	Cl	№З	F	В	Totel Solids	Na Na
BEAR CREEK NEAR STEVI	NSON T7S	, RlOE, Sec.														
1/12 1505 2/8 1500 3/10 1330 4/14 0915 5/18 0850 6/16 0820 7/12 1400 8/15 1330 9/15 1150 10/12 1250	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	92 397 102 498 110 695 90 970 83 898 98 826 1060 118 1240 112 1420 110 1710	78020431 88.20431 88.31 88.59	2322 342 5548 35545 435545 445	9.4 12 16 18 19 17 25 18 18 22	45 578 1206 98 1466 223 289	0.400404000 mmaaaanaa	00000000000	162 184 173 181 204 214 207 241 253 342	89 76	25 46 89 171 130 122 195 228 276 311	1.1 1.1	0.4 0.6	0.21 0.05 0.27 0.19 0.29 0.36 0.18 0.11 0.23 0.16	521 799	44455221225
MERCED RIVER AT EXCHEM	QUER DAM	T45. R15E.	Sec. 2	3												
	44 10.977 448 11.77 554 11.1 555 9.9.34 556 6.58 6.58 10.58 48 10.58	89         130           100         136           99         132           103         70.1           88         53.7           91         33.3           100         28.3           76         122           85         204           82         207           88         181	7.1 7.3322970 7.776.70 7.533	15 16 15.49 3.4.4 17 229 24	952271047557 344320093544	4545001054500 m	1.5 1.0 1.1 0.7 0.5 0.6 0.9 0.5 1.1 1.9 1.6		58 63 60 34 28 18 9 15 66 104 10 82	2.8 5.8	80088N808N08 45,4200000000000000000000000000000000000	0.1	0.1	0.00 0.01 0.00 0.02 0.02 0.03 0.02 0.03 0.04 0.02 0.02 0.02	ևկ 77	15 17 120 21 27 34 11 13 12
MERCED RIVER NEAR STEN		55, R9E, Sac	. 36													
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	89         218           97         279           101         276           100         234           100         285           88         261           110         300           104         241           86         213           101         323           86         312           86         286	7.77.77.77.77.77.77.77.77.77.77.77.77.7	17 21 20 14 20 19 17 16 15 21 21 21	008034290499 76867645766	19 28 24 30 296 20 266 21 34 36 21 34 33	2.7,359,29,78,75,60	000000000000000000000000000000000000000	104 127 124 110 132 112 100 106 96 143 141 132	6.5 8.2	9.0 16 17 22 38 18 14 23 22 17	2.8 1.9	0.0 0.4	0.15 0.05 0.152 0.03 0.15 0.03 0.15 0.05 0.05 0.01	186 140	733354383876
* MERCEO RIVER AT MERCEI		RIDGE T7S.		ec. 3-	I											
1/27 1205 2/25 1140 3/28 1210 4/26 1115 5/27 1215 6/24 1215 6/24 1215 8/26 1205 9/23 1205 10/12 1325 12/15 1515	5565800908434	222 264 283 272 304 306 341 327 291				17 26 27 11.5 29 32 23 23 23 23 34 51 13					10 18 23 10.6 26 31 22 26 31 23 19				152 190 172 208 204 208 208 208 208 208 208 208 208 208 208	30010000000000000000000000000000000000
TUOLUMNE RIVER AT LA C	RANGE															
3/11         1050         582           4/14         1330         44           5/12         1145         39           6/16         1230         22           7/12         1000         9           8/18         1450         23           9/15         1630         20           10/12         1600         23	46 11.88 11.88 46 11.88 11.82 11.82 11.82 19.1 1.9.1 9.1 9.1 9.2 10.3	94 55.1 99 56.66 107 51.8 114 53.9 99 48.1 101 48.4 99 48.4 99 48.3 99 48.3 99 49.3 85 27.1 90 50.7	6.7 7.2 7.7 7.2 7.7 7.2 7.7 7.5 9 9	7 M M G G M G G M M G G M M M G M M G M G M G M G M G M G M M G M M G M M G M M G M M G M M M M M M M M M M M M M M M M M M M M	1.8 2.0 3.4 1.9 1.5 1.9 1.5 1.3 9 1.5 1.3 9 1.5 1.3 9 1.5 1.3	34440 NB 7408 N	00000000000000000000000000000000000000	000000000000000000000000000000000000000	27 29 27 27 27 27 27 27 27 27 27 27 27 27 27	3.0 0.6	1.2 1.0 1.0 0.5 0.0 0.0 0.0 0.0 0.0 1.0	0.2	0.1	0.00 0.03 0.02 0.00 0.00 0.00 0.00 0.00	ЦЦ 25	18 19 20 23 18 27 19 16 18 20 20
TUOLUMNE RIVER AT TUOL				12												
4/14 1630 307 5/12 1510 238 6/17 0730 262 7/15 0800 218 8/15 1205 233 9/16 0945 233	47         8.4           10.02         9.27           10.02         7.8           9.27         8.9           7.69         3.4           7.69         3.4           7.67         3.4           6.55         7.5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.2269436331	21022972545743	6.0 6.8 6.3 17 16 15 14 15 14 15 14 10 7.2	32 32 36 95 80 72 80 72 80 72 80 72 80 72 80 80 72 80 80 72 80 80 72 80 80 72 80 80 72 80 80 75 80 80 75 80 80 75 80 80 75 80 80 75 80 80 80 80 80 80 80 80 80 80 80 80 80	1 70 400 7 400 1 4 72 2 7 7 0 0 5 5 5 5 0 1 4	000000000000000000000000000000000000000	64 66 67 1522 1557 157 159 1732 1622 66	8.1 9.0	63 62 725 1956 151 150 146 151 151 121 74	2.5	0.3	0.19 0.03 0.10 0.12 0.12 0.12 0.12 0.12 0.12 0.12	490 441	4668120970098

* Data copied from U. S. Bureau of Reclametion compilation. (Daylight Seving Time in affect April 24, 1955, through September 25, 1955.)

		TABLE 225		
COMPLETE OR PARTIA THE	L ANALYSIS OF THE IR TRIBUTARIES AN	WATERS OF THE D THEIR DELTAS	SACRAMENTO, SAN - 1955 (contd.)	JOAQUIN RIVERS,

				Disso	lved							Pa	rta pe	r M111	ion				
Date Time	G.H. Feet	Flow 7 c.f.a.	Comp F	Oxyg		Kx10 ⁶	pĦ	Ca	Mg	He	K	co3	нсоз	SOL	Cl	NO3	P	₿	Total % Solida Na
+ TUOLUMNE	RIVER	AT T OI	IMNE	E RIVE	R BRI	DGE TI	S. R	E, Sec	. 78										
1 27 1320 2 74 1255 3/28 1325 4/26 1255 5/27 1315 6 24 13 0 7 110 0 23 131 10 12 2335 11/15 11.0 12/1 1335	···+ ···> ···1 ···2		5228 5722 7777 7777 77777 5353			3440 877 8520 7738 7738 764 764 764 764 764 764				28 26 892 104 77 90 77 90 77 50 26 50					65 60 191 189 216 161 153 160 153 208 76				<b>206</b> <b>35</b> <b>36</b> <b>36</b> <b>36</b> <b>36</b> <b>36</b> <b>36</b> <b>36</b> <b>36</b>
TUOLUMNE	RIVER		<u>KMAN</u>	T3S,		, Sec.													
1 113 1130 1 11 1245 3 10 1600 4 11 1415 1 1330 6 16 1330 7 12 0530 8 18 1600 9 15 1745 10 /12 1715 12 /15 1340		<pre></pre>	479487755817530	10.4 12.0 13.0 11.5 11.5 500 10.6 17	88 103 120 125 136 128 100 114 103 114 88	136 93.1 120 52 501 509 613 570 567 553 123 119	6.92222 441 8.1097.11 8.2097.11	11 3.8 27 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 32 30 30 30 30 30 30 30 30 30 30 30 30 30	2.8 2.3 3.9 12 9.6 11 12 11 12 11 12 2.4 3.0	11 5.8 9.4 52 53 65 53 65 57 61 11 8.9	1014450555511	0 . 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	32 37 39 104 104 100 110 107 109 35	3.0 3.6	104 132 115	0.6	C.2 0.1	0.00 0.02 0.06 0.10 0.12 0.16 0.07 0.13 0.08 0.00 0.00	37 28 348 289 48 51 50 336 49 50 49 50 44 50 50 50 50 50 50 50 50 50 50 50 50 50
* STANISLA		ER AT BI		HARTE	PUMPS		R7E,	Sec. 🤇	F										
$\begin{array}{c} 1/27 & 1400\\ 2/25 & 1100\\ 3/28 & 1120\\ 1/26 & 1320\\ 5/27 & 11410\\ 6/24 & 1430\\ 7/29 & 1150\\ 8/26 & 1340\\ 9/23 & 1420\\ 10/12 & 1445\\ 11/15 & 0955\\ 12/15 & 1155\\ \end{array}$	21.0		5194970420920			226 99 281 165 84 205 262 267 285 300 260 175				10 4.4 14 7.1 2.3 11 17 15 17 17 17 19 5.1					4.6 18 12 6.4 2.1 6.7 11 74 12 11 11 6.4				154 19 98 19 180 22 116 19 64 12 158 23 188 26 134 24 192 26 218 25 172 32 116 13
STANISLA	US RIV	ER AT M	OUTH	T3S.	R7E.	Sec.	11												
1/13 1340 2/21 1200 3/15 1630 4/15 0940 5/18 1140 6/17 0920 7/15 0930 8/19 0945 7/16 1300 10/13 1310 12/15 1115		686 850 968 83 5943 48 41 1748 1748	43161475376809	11.2 9.9 10.0 10.0 10.0 10.0 10.0 10.0 10.0	90 100 94 100 116 91 108 94 90 31 86	170 118 112 202 217 94.6 271 281 272 283 255 169	6 -777777777777777777777777777777777777	17 12 11 22 5 .3 26 25 26 25 25 23 10	6.6 4.0 11 8.9 3.8 10 10 10 10 12 5.9	6.6 4.6 4.4 15 14 4.2 17 16 16 16 14 8.1	1.7 1.1 2.5 1.1 2.5 1.2 2.3 2.3 2.7 0 1.9	000000000000000000000000000000000000000	7594 1334 1543 1544 1554 1354 1354	9.2 9.0	1.5	1.6 1.6	0.0	0.02 0.05 0.00 0.04 0.00 0.06 0.01 0.00 0.03 0.03 0.00 0.00	17 17 17 124 181 25 24 181 25 23 23 20
* <u>SALT SL(</u>	UGH AT	SAN LU	IS RA	ANCH		RIIE.	Sec. 7	A											
1/25 U.20 2/25 1010 3/30 1040 4/28 1300 5/25 CF50 7/28 1250 8/30 0900 5/26 1405 10/11 1110 12/16 1350	2.562 3.00 3.00 2.02		46 557 66 76 99 88 92			1916 2428 1574 1174 916 759 822 857 1043 1191 1963 1735		41 43 53 66 70	21	220 345 146 133 102 76 94 117 142 248 221	1.6 5.1 3.9 4.7 4.3	0 0 0 0 0	161 176 192 233 197	74 96 111 243 223	166 419 203 154 129 140 178 227 359 318	5.5 1.9 2.5 4.3 1.9		0.3	1262 50 1682 620 714 49 596 48 514 52 514 52 515 52 515 52 515 52 515 52 515 52 515 52 514 52 515 52
SAN JOAG	UIN RI	VER AT	MOSSI	DALE B	RIDGE														
1/19 1350 2/21 1010 3/15 1420 4/15 1140 5/17 0750 6/21 10 7/18 1515 8/22 1430 ./21 1610 10/1, 1015 11/22 113: 12/2: 1430			469 562 670 776 776 52 54	10.2 11.0 10.0 14.6 12.0 11.4 13. 10.6 9.4	85 96 168 130 127 94 100 156 109 7 7	377 501 629 954 9602 1000 959 912 827 696 497	7.147 7.7883838787 7.8838787 7.53	228 228 255 522 555 225 552 16 55 552 20 555 20 555 20 555 20 20 20 20 20 20 20 20 20 20 20 20 20	7.7 12 21 20 17 44 23 16 13 15 11	40 54 70 109 107 72 104 104 102 92 79 53	4225566002057	000000000000000000000000000000000000000	89 51 104 17c 170 139 178 190 181 160 123	60 59	50 71 106 180 178 121 196 175 159 141 120 84	0.6	0.2	0.28 c.19 0.22 0.22 0.35 0.35 0.26 0.24 0.14 0.14	49 51 534 54 49 50 515 51 52

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TA	BL	E	22	25

COMPLETE OR PARTIAL ANALYSIS OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1955 (contd.)

				Dissol	ved							Pa	rts per	• M111	ion					
Date Time	G.H Fee			Oxyge ppm 9	en Seat	Kx10 ⁶	pН	Ca	Mg	Na	K	co3	HC03	soų	Cl	NO3	F	В	Fotal Solids	% Na
* SAN JOA	QUIN	RIVER AT	MOSS	DALE BI	RIDGE	T2S.	R6E,	Sec. 3	3											
1/4 1030 2/1 1020 2/1 1020 3/31 1400 4/27 1433 6/29 1020 7/27 1515 9/1 0933 10/3 1000 10/25 1350 12/2 1010 12/27 1010	2.		48 51 66 60 70 77 66 55 55			339 598 1021 626 190 835 942 857 1038 857 1038 857 75				32 62 62 64 22 86 94 94 94 94 94 120 120 110 4.6					53 01 200 107 368 181 155 192 148 125 5.7				534	415 444 444 545 460 997
		RIVER AT		DT BRII	DGE	TIS, R	6E, Se	c. QL		~ 6					(1)				2.21	1.6
3/1 1530 6/1 1119 9/1 1040 12/2 1030	5.	10	<b>47</b> 656 764			532 221 630 682				56 20 69 1⊃6					91 35 95 119				334 142 378 412	46 39 48 68
SAN JOA	QUIN	RIVER AT	GARW		IDGE															
1/19 1300 2/15 1420 3/15 1330 5/19 1520 6/23 084 9/25 900 9/21 1100 10/17 1600 11/21 1550 12/19 1535			464 557 721 752 776 512	8101M686264M	81 950 603 105 84 195 84 84	234 541 7642 7622 7445 6125 6145 74200 10008	7.144634335553	128 223 4258 34542 34553	5.4 13 16 15 20 12 21 14 12 22 22 22 22 22 22	238 55 527 68 40 68 49 114 121	422543545005		<ol> <li>102</li> <li>101</li> <li>159</li> <li>174</li> <li>100</li> <li>131</li> <li>182</li> <li>166</li> <li>199</li> <li>170</li> <li>105</li> </ol>	42 23	26 73 36 90 125 70 90 132 179 182 92	3.d 4.3	0.2 0.5	0.07 0.17 0.14 0.22 0.21 0.16 0.14 0.26 0.21 0.16 0.14 0.27 0.20 0.20	307	4500837082221
STOCKT	ON SHI	P CHANNE	L NEA	R RIND	GE PU	MP														
1/19 0900 2/15 1633 3/17 1300 4/21 1250 5/19 1633 6/23 0950 8/25 1119 9/21 0910 10/18 1010 11/21 11430 12/20 1000			432 5592 7592 7694 552 552	10.0 7.3 8.5 10.7 11.7 8.4 6.0 5.6 8.3	79 66 82 105 132 95 79 66 59 90 75	316 619 553 383 49 546 546 808	0.92 7.31 8.14 8.7.3 7.3 7.3 7.3 7.1	20 34 331 30 20 20 20 20 30 20 30 50	9.0 15 14 13 11 13 19 19 21	276 66 5738 85 588 580 88 88 88 88 88 88 88 88 88 88 88 88 8	3.1 3.1 3.1 3.1 3.1 5.5 2.8 6.6 6.6 4.4	000000000000000000000000000000000000000	77 1-4 100 112 96 101 110 131 152 105	26 55 4 34 41 50 88 9 9	38 90 97 80 55 68 80 130 129	4.8 3.4 1.9 0.9 1.0 1.0 1.0 1.1 14	00000000000000000000000000000000000000	0.00 0.17 0.27 0.20 0.19 0.11 0.16 0.16 0.16 0.17 0.31	347 349 302 281 212 216 249 289 408	399976550895
* <u>SAN JO</u>	AQUIN	RIVER AT	SAN	ANDREA	S LAN	DING	ТЗМ, А	3E, S	ec. 13											
1/31 13h0 3/1 0944 4/1 1210 6/2 133 6/29 1420 7/8 1130 7/27 1155 8/31 1200 9/28 1020 10/25 1133 11/30 1100 12/28 1110	5.	8	479750902166300 776630055			308 3425 172 1428 213 252 250 259 250 259 250 259 250 259 250 250 259 250 250 250 250 250 250 250 250 250 250		19 21 15 9.3 10 11 16 19 16 13 5.6	13 13 9.0 6.2 9.3 8.7 8.7 13 7.8 3.9	22 22	2.0 2.7 1.2 1.6 0 1.2 1.6 1.2 2.0 1.2 0		68 83 76 68 52 7 82 92 82 92 84 8 22	32 31 17 11 12 15 13 11 14 0.1	10 20 26 17 18 21	4.3 1.2 0.56 0 0.6 0.6 0.6			206 224 158 1320 128 146 260 260 230 150 124 96	31 36 228 3 40 44 30 88 18
* SAN JOI	AQUIN	RIVER AT	r TWII	CHELL	ISLAN	<u>ID</u> T3N	i, R3E,	Sec.	17											
4/27 0923 6/2 1300 6/29 1349 7/27 1144 8/31 1149 9/28 0959 10/25 1119	05050		55 749 70 70 63			190 159 200 388 533 340 232													134 148 168 236 358 208 152	
* <u>SAN JO</u>	AQUIN	RIVER AT	_	SEY POI	NT															
5/2 1019 5/31 1139 6/27 1133 7/25 104 8/29 1100 9/26 1330 10/31 124	55500		58 69 68 66 62			192 179 248 1290 941 563 300													136 126 190 762 560 306 174	

* Data copied from U. S. Bureau of Reclamation compilation. (Daylight Saving Time in effect April 24, 1955, through September 25, 1955.) COMPLETE OR PARTIAL ANALYSIS OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1955 (contd.)

				Disso								P	arte pe	r M11	lion					<u> </u>
	.H. Fl eet c.	T wo 1.s.	emp	OXYE		Kx10 ⁶	рĦ	Ca	Mg	Ne	K	co3	всоз	soy	Cl	NO3	P	В	Total Sollds	% Na
SAN JOAQUIN	N RIVER	AT A	NTIO	DCH T	2N, F	2E, Sec	. 12						-							L
1/21 1C1L 2/1r 1100 3/16 1520 5/19 0840 6/22 1030 6/22 1030 8/24 1230 9/22 1350 10/20 0515 11/23 1110			50	10.2 .3 10.9 9.7 8.8 9.3 8.9 .3 7.7 7.6 8.5	84	418 401 381 955 192 2550 6530 2430 1020 991 375	7.328 498 5777777777777777777777777777777777777	26 24 22 13 18 31 61 33 16 20 16	13 13 23 262 138 262 138 262 138 264 11	35 33 126 184 398 104058 135 135	2.0 2.51 2.21 1.5 0.0 17 42 17 72 8.0 2.9		83 88 88 69 79 104 109 80	452 442 58 199 143 59 143 59 143 59 143 59 143 59 143 59 143 59 143 59 54 45 59 54 45 59 54 45 59 54 45 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 59 54 54 55 54 54 55 54 54 55 54 54 55 54 54	54 50 47 218 16 314 625 1950 228 229 61	5.33 2.38 2.00 2.00 2.00 2.00 1.00 2.00 2.00 2.00	0.3 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.00 0.11 0.14 0.17 0.18 0.31 0.30 0.53 0.24 0.08 0.08 0.18	244 234 2196 1222 6620 13780 1410 53580 1410 5358 218	344034037535550
⇔ SAN JOAQUIN	N RIVER	AT A	NTIO	<u>)CH</u> T	2N, F	RZE, Sec	. 18													
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5.8		449 455 555 668 667 252			352 366 416 247 240 880 4732 3429 1372 1115 486 241				27 26 62 139 18 21 117 738 481 175 168 90 20					48 465 251 292 213 14958 3596 79 30				226 238 624 150 2954 29552 680 306 306	331 552 388 6155 816 36
OLD RIVER A	AT SOUT						EAR T	1		~					<i>c</i> 2					50
1/20 0825 2/21 1055 3/15 1730 4/15 1100 6/21 1020 6/21 1020 7/1c 0730 7/24 1500 10/1 1640 11/22 1 45 12/20 1330			455516690771404	8.019991-019991-01955 572	67 78 97 72	406 641 576 1060 875 457 1040 945 985 1050 956 592	7.2 7.4 7.4 8.7 7.6 6 7.6 6 7.5 7 7.5 7.5 7.5 7.5 7.5 7.5	23328055244	9.0 16 19 25 20 12 20 22 21 26 22 21 14	45 71 64 116 93 112 99 106 120 106 64	9070060644443 3315425555664	000000000000000000000000000000000000000	93 107 95 169 169 167 190 199 205 182 121	65 61	53 95 92 209 150 76 170 174 181 170 96	3.7 2.5	0.3	0.07 0.27 0.26 0.21 0.13 0.63 0.30 0.35 0.27 0.24	487 549	5555544990109
DELTA-MENDO	OTA CAN			RACY	TIS,	R4E, S	ec. 3	1												
1/20 0910 2/21 1430 3/7 1030 4/11 1100 5/9 1015 t/13 0950 7/19 0800 8/23 0900 9/22 0740 10/19 1145 11/22 1315 12/20 1520	21	860 574 730 300 490 660 665	55 62 64 68 71 76 67 64	9.7 10.2 13.1 8.9 8.1 7.1 6.8 6.3 9.2 10.0 9.9	79 97 123 91 88 80 68 90 90 92	717 651 656 370 222 298 583 765 1010 1030 731	7.3 7.6 7.6 7.6 7.6 7.6 7.5 7.5 7.5	33 33 22 21 14 26 35 24 35 35	16 16 17 13 11 7.3 10 15 19 23 23 16	89 74 36 31 20 63 90 117 119 88	3.8 2.2 1.2 1.4 0.6 2.6 3.4 4.5 3.6 3.4 4.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0 0 0 0 0	118 107 105 90 89 54 73 114 140 186 171 123	31 50	119 98 104 51 46 29 30 104 138 177 188 127	1.4 2.8	0.3	0.34 0.31 0.21 0.15 0.14 0.07 0.18 0.24 0.33 0.22 0.33	208 429	552549945552255
OLD RIVER A	AT CLIF			FERR	-															
1/20 9040 2/21 1515 3/16 0900 4/20 0920 6/21 1030 6/21 1030 6/23 1000 9/22 0830 10/19 1235 11/22 1350 12/21 0850			55555577258402	99998777682 77662798	788732 888888888888888888888888888888888	383 598 370 398 267 289 596 61c 595 1020 567	7.7.42.6.42.3.3.56.3	22 31 23 25 16 20 28 18 52 31	9.5 14 11 13 8.8 14 14 223 13	43 66 33 25 67 60 116 60	3.8 2.59 2.7 1.1 3.6 2.0 3  3.0 2  3.6 2  3.6 2  3.6 2  3.6 2  3.6 5  3.6 5  3.6 5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5  5 		85 102 97 94 78 92 118 131 167 104	37 68 35 322 26 35 35 35 48	56 88 96 46 56 30 100 100 110 95 188 94	3.00 1.02 1.02 1.02 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0	0.7	0.07 0.22 0.28 0.14 0.15 0.11 0.12 0.19 0.08 0.07 0.25 0.15	240 340 235 235 154 164 297 327 581 326	9710991500000
• OLD RIVER A	AT CLIF			FERR	Y T1	S, RĻE,	Sec.	21												
1/4 - 10 2/1 1030 3/1 0530 3/31 1330 4/27 1315 4/1 0520 4/27 1415 7 2 1000 7 1 1115 10/3 1 -0 10/31 13-5 11/3 1415	s	(	1850851144922 517744922			617 650 560 615 3°1 256 3°1 5°15 802 721				65 68 58 25 28 58 29 58 114					107 95 91 55 43 106 89 153 123				394 356 3954 184 228 320 320 300 44	46 45 45 36 39 498 50

 Data cupled from U. S. Bureau of Reclamation compilation. (Daylight Saving Time in effect April 24, 1955, through September 4, 1955.) TABLE 225

#### COMPLETE OR PARTIAL ANALYSIS OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1955 (contd.)

			Disso	lved							F	Parts pe	r Mil	lion					
Date Time	G.H. H Feet (	Flow Temp c.f.s. ^O F		101	Kx10 ⁶	рН	Ce	Mg	Ne	к	co ₃	нсоз	soy	Cl	NO3	F	в	Totel Solids	% Ne
ITALIAN	SLOUGH 1	NEAR MOUTH																	
$\begin{array}{ccccc} 1/20 & 1030\\ 2/21 & 1545\\ 3/16 & 0940\\ 4/20 & 1000\\ 5/18 & 1400\\ 6/21 & 1140\\ 7/19 & 0930\\ 8/23 & 1050\\ 9/22 & 0915\\ 10/17 & 1325\\ 11/22 & 1445\\ 12/21 & 0945\\ \end{array}$		46 51 578 763 778 68 650 53	8,55,31,21,20,57,71 9,9,88,76,66,57,1 1,8,4	71 890 8945 791 897 768 877 8977	701 68293 8355667 55467 55467 55467 55467 55467 55467	6.8 7.7.44430 7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	4425226402253	16 17 15 12 9.8 8.0 10 14 12 13 22 16	69 769 302 25 60 80 60 80 60 80 75	42222178324745	00000000	75 106 96 84 86 76 78 93 98 112 151 91	33 29	103 104 106 41 27 30 105 95 67 175 109	1.0 0.6	0.3 0.4	0.44 0.30 0.37 0.09 0.10 0.28 0.01 0.23 0.25 0.42	198 289	45219091554921
INDIAN S	LOUGH N	EAR BRENTW	000																
1/20 1415 2/16 1440 3/16 1130 4/20 1045 5/18 1515 6/21 1320 7/19 1000 8/23 1210 9/22 1010 10/19 1410 11/23 0840 12/21 1040		48 538 777 867 40 672 672 672 57	9.51 10.55 7.692 7.4070 9.99	149 98 73 100 89 82 89 80 77 85	1180 1430 1110 396 398 240 309 708 783 755 1140 1110	7.91 8.03 7.94 7.03 7.7 7.33 7.7 7.5 7.5	69 61 22 21 13 6.4 23 27 29 71 75	34 41 12 13 16 17 21 21 21 36 36	131 176 114 39 20 30 86 91 92 120 111		0	259 196 292 101 77 81 104 124 148 312 309	38 54	176 237 150 24 30 146 146 148 143	0.9 3.7	0.3 0.4	1.7 1.6 1.5 0.24 0.27 0.11 0.26 0.36 0.51 0.75 2.0 1.8	231 427	45444484805442
OLD RIVE	R AT OR	WOOD BRIDG																	
1/20 1500 2/16 1400 3/16 1230 4/20 1200 5/19 1110 6/22 0840 7/19 1030 8/24 1010 9/22 1125 10/19 1500 11/25 1010 12/20 1145		4555677780555928 777687776928 4555677766485	9898876666999	76 935 89 80 71 80 81 81	682 7563 2763 2769 2666 536 536 536 536 536 848 848 694	7.3 7.6 7.3 7.2 7.3 7.2 7.3 7.4 7.3 7.4 7.3 7.3 7.3	39 41 39 19 19 19 15 21 16 49 39	18 19 17 10 8.9 9.1 8.4 16 15 15 21 17	67 83 72 22 81 45 53 73		000000000000000000000000000000000000000	100 125 98 88 80 78 81 92 100 112 142 107	92 80 22 19 80 22 19 80 23 73	96 117 102 34 30 32 31 136 60 152 114	7.74 1.0 0.8 0.8 0.8 1.6 5.1	0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.5	0.13 0.28 0.33 0.13 0.10 0.08 0.14 0.13 0.03 0.20 0.34	378 183 164 153 153 360 292 240 479	4553368295818 3334554518
	UGH NEA	R KNIGHTSE	_																
$\begin{array}{c} 1(201550\\ 2/161220\\ 3/161400\\ 4/201330\\ 5/190950\\ 6/220920\\ 7/191115\\ 8/241120\\ 9/221225\\ 10/191615\\ 11/230945\\ 12/211300\end{array}$		45580153938 777766445	10.495901 985901 7665689	82 75 82 66 79 72 63 70 73 88	861 846 746 227 2213 2273 723 723 579 496 696	7.3 7.26 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3	46132005500956	25 24 20 7.8 7.2 9.1 17 15 13 14	891 891 2247 807 447 80 8540 70			110 128 114 92 84 36 78 94 101 114 118 122	24 29	129 129 116 35 28 30 152 109 58 71 113	0.7 0.3	0.3	0.35 0.46 0.39 0.16 0.10 0.09 0.09 0.30 0.30 0.22 0.27 0.37	165 314	44538541688 54455445
* <u>CONTRA C</u> 1/4 0945	OSTA CA	NAL AT FIF	ST PU	MP LIF	<u>930</u> 930	, R2E,	Sec. 45	25 25	95	3.)	. 0	120	120	140	5.1			540	48
1/31 1000 3/1 1300 3/30 1110 5/2 1045 5/31 1240 6/27 1200 7/7 1235 7/25 1200 9/26 1035 9/26 1035 10/31 1005 11/28 0930 12/27 1340		4369800026280 7726280552			997 9865 387 308 3316 3770 5027 674		438 331 16 14 17 220 228 33	34 19 14 12 13 18 20 17 21	112 963540 3954838 3954838			123 129 99 87 68 71 82 92 101 117 118 90	154 1130 4339 3452021 101	151 144 92 48 41 58 158 158 157 72 861	5.1 7.4 1.9 0.2 0 0 0 0 0 0 0 0 0 0 0	2	0.60 0.1 0.11	392 248 214 210 196 236 452 382 316	4454471 405444
* OLD RIVE	ER AT HO		T T21	N, RЦI	E. Sec.	19			6.9					111				(1)	1.a
$\begin{array}{c} 1/5 & 0.945\\ 2/1 & 1305\\ 3/2 & 1030\\ 3/30 & 1045\\ 5/2 & 0.932\\ 5/31 & 0.940\\ 6/27 & 0.930\\ 7/7 & 1325\\ 7/25 & 1215\\ 8/29 & 1035\\ 9/26 & 1245\\ 10/31 & 0.930\\ 11/28 & 1235\\ 12/27 & 1420\\ \end{array}$	2.73.	436 50 58 69 72 70 66 52 52			728 598 5572 1972 2386 1972 37195 1951 4626 97 3616 51 4269				688 5398 117 4841 5358 523					111 82 89 47 27 38 20 62 150 62 150 46 53 35				51442 37824724442064 115454206422 124544206422 2578	4350 431 331 451 457 9537

* Data copied from U. S. Bureau of Reclamation compilation. (Deylight Seving Time in effect April 24, 1955, through September 25, 1955.)

# COMPLETE OR PARTIAL ANALYSIS OF THE WATERS OF THE SACRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1955 (contd.)

		Disso	lved							Pa	irts per	• M1111	Lon					_
C.H. Plow Date Time Feet c.f.	Temp s. ^O F	pbw byw	en %set	Kx10 ⁶	рH	Са	Ħg	Na	K	co3	нсо3	SOL	Cl	NO3	F	В	Totel Solids	Na.
LD RIVER AT MANDEV	ILLE																	-
1/19 1520 2/16 1600 3/17 1130 L/21 1020 5/19 1250 6/22 1350 7/19 1315 3/24, 0300 9/21 1320 10/18 1215 11/22 0555 12/20 1135	<b>30</b> 4089529203	10.5 9.60 9.05 5.2 7.7 6.1 7.52 10.1	17 89 99 89 99 88 76 1 92 88 76 1 92	495 353 241 190 183 297 1450 356 337	7.2.4344344333	32 31 22 16 13 12 15 15 17 16 21 21	11, 15, 14, 6,9, 15, 14, 13, 12, 11	451045888 - 488 4451045888 - 488 11388 - 488 11388 - 488 1	2.2.1.1.1.1.0.9.5.3.6 2.2.1.1.1.1.1.0.9.5.3.6		83 98 86 82 69 83 109 104 87	56 327 14 13 24 27 28	71 43 175 300 1300 4444	4.9996556691 2000000000000000000000000000000000000		0.12 0.10 0.15 0.14 0.03 0.07 0.22 0.13 0.09 0.06 0.09	118 113 172 348 252 204 212	4410 73350 5430 5430
* DUTCH SLOUGH AT FAR	RAR PA	RK BRI	DGE	72N, R3	E, Se	c. 22												
5/31 1205 6/27 1200 7/7 0550 7/25 1125 8/20 1230 7/26 1540 10/31 0550 11/28 1300	70 70 72 70 67 51			205 237 282 749 1112 711 335 347													136 169 184 52 686 334 230	
* FALSE RIVER AT WEBB	PUMP	тзн,	R3E.	Sec. 36														
5/31 1245 6/27 1245 7/7 1245 7/25 0940 5/29 1140 9/26 1430 10/31 1052 11/28 1330	69 70 69 67 61 52			191 189 232 471 774 465 284 267													122 182 154 290 506 256 180 178	
LITTLE POTATO SLOUG	H NEAR	TERMI	NOUS															
1/19 1220 2/14 11,00 3/17 11,30 5/16 1550 6/23 1120 7/18 1330 7/25 1230 9/21 0800 11/1 08,5 11/21 1330 12/20 0850	30585858445009	10.2 9.6 8.6 9.6 8.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9	81 830 80 80 80 80 80 80 80 80 80 80 80 80 80	214 295 233 186 156 231 286 232 232 232 232 244	7.0 7.2 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.3 7.1 7.3	16 21 17 15 12 14 19 16 19 16 18 17	7.3 12 8.7 6.7 5.4 8.8 11 8.3 12 11 9.0 9.1	13 19 155 12 9 18 23 18 238 24 18 24 18 17	1.65.1.41.385.587.86	000000000000000000000000000000000000000	56 78 58 58 58 58 127 972 127 47 872 72	13 19 11 5.2 7.7 16 14 12 15 10 13 21	28 38 13 14 12 35 25 25 25 26 4	42.8998975611 200000000000000000000000000000000000	0.2 0.3 0.2 0.1 0.2 0.0 0.1 0.2 0.3 0.3 0.5	0.05 0.03 0.07 0.10 0.08 0.07 0.10 0.14 0.08 0.03 0.00 0.05	99 139 172 144 182 154	28998955451201
KERN RIVER NEAR KER	NVILLE																	
9/19 0930 10/10 1500 13 11/_8 1200 20	0 60 4 43	9.2 11.0	92 88	156 167 168		14 14 15	2.0 2.4 1.8	15 17 17	1.6 1.5 1.8	0 0 0	69 73 72	11	4.0	0.4	0.3	0.20 0.19 0.19	100	42 43 44
KERN RIVER AT ISABE	LLA DA	M																
\$/14         1015         13           10/11         0900         1           11/28         1100         1	8 43	7.0 8.1 10.6	78 84 88	184 233 277	7.7	20 24 29	2.1 3.8 5.0	14 18 24	2.9	0 0 0	99 121 148	6.8	2.3 4.7 9.0	0.2	0.4	0.20 0.26 0.32	106	33 33 35
KERN RIVER AT BAKER				E, Sec.	2	19	2.6	20	1 8	0	nh		11			0.20		1.9
1/11 0755 2/10 1230 3/9 1300 5/11 130 6/15 1015 7/14 1530 8/17 1350 8/17 1350 9/14 1330 27 10/11 1500 14 11/15 1500	419.1 565569778998 44	11.5 9.7 11.0 9.4 7.8 9.4 7.6 8.4 10.4 10.5	90 100 99 106 92 99 95 91 92 91 92	205 227 201 199 125 71.5 100 139 200 243 251 139	7.3 7.6 7.8 7.7 7.5 7.4 7.5 7.4 7.5 7.7 7.7	19 20 19 7.8 8.8 7.9 11 18 18 18 22 17	2327344737340 2327344737340	20 23 19 18 12 6.0 9.0 13 17 26 25 17	1.8 2.1 1.7 1.4 0.8 1.6 1.8 1.6 1.8 1.6 1.8 1.8 1.0 1.8 1.0 1.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	000000000000000000000000000000000000000	86 100 88 91 555 63 46 84 56 84 106 34	8.7 13	12 983260 2255 11 15 14 7.2	0.1	0.3 0.4	0.29 0.15 0.13 0.16 0.06 0.07 0.07 0.07 0.04 0.18 0.23 0.24 0.20	93 117	4310149898 3444433498 34433
TILE RIVER NEAR POR	TERVIL	<u>LE</u> T2	lS, R															
8/17 120-	430640 5640 66452 71252 548 548	11.9 11.7 10.3 13.4 9.9 9.1 7.9 11.7 11.4 10.0 10.4	96 102 924 95 95 147 124 90	359 332 239 158 221 309 1405 4051 271	7.000058 8.00058 7.5	44344 30442 9.5	764326351938	22 18 14 12 8.1 11 20 21 26 30 15	2 32 1 48 9 0 2 0 5 3 3 3 5 2 5	0 0 0 0 0 0 0 3 12 0	198 194 138 144 137 202 230 254	2.0	14 10 5.8 6.2 3.8 9.5 12 16 20 9.2	U.4	ι.2	0.22 0.09 0.08 0.05 0.19 0.13 0.14 0.14 0.07	109	25 22 21 21 20 22 21 20 22 21 20 22 21 20 22 21 20 22 21 20 22 20 20 20 20 20 20 20 20 20 20 20

 Data c pled from U. S. Bureeu of Reclamation compilation. (Daylight Saving Time in effect April 24, 1955, through September 25, 1955.)

#### TABLE 225

#### COMPLETE OR PARTIAL ANALYSIS OF THE WATERS OF THE SAGRAMENTO, SAN JOAQUIN RIVERS, THEIR TRIBUTARIES AND THEIR DELTAS - 1955 (contd.)

			Disso	lved							Pa	arts per	r M111:	ion					
	G.H. Flow Feet c.f.s.	Temp °F	Oxyg	en	Kx10 ⁶	рĦ	Ce	Mg	Ne	К	co3	hco3	soų	Cl	NO3	F	В	Totel Solids	% Ne
KAWEAH RI	VER NEAR THF	EE R	IVERS	T17S	, R28E.	Sec.	33												
1/11 1110 2/10 0910 4/12 1540 5/11 0750 6/14 1645 7/13 1700 8/17 0945 9/13 1600 10/11 1100 12/13 1100	201 50 26 71 247	402195582280666 46	12.2 12.0 10.6 11.5 9.9 9.5 8.0 9.3 8.1 9.1 10.2	94 95 97 113 92 102 106 98 91 85 87	134 96.4 58.3 41.0 35.8 109 134 152 164 95.9	7.32 7.3 7.3 7.2 7.2 7.2 7.2 7.5 9 5 5 5 7.5 3	17 15 11 4.2 4.7 8.9 13 16 17 19 12	1.75 1.66 2.7 1.8 2.7 1.8 1.8 1.8 1.2 2.4 1.4	240 340 5770 94 765 32 1 5570 94	1.1 1.2 0.8 0.7 0.4 2.2 1.4 1.7 1.8 1.9 1.2		68 668 22 22 35 63 78 8 8	1.2 3.0	5.40100358004	0.1	0.3	0.13 0.01 0.06 0.00 0.01 0.00 0.00 0.00 0.02 0.03 0.01 0.03	86	2443540936644
KINGS RIVI	ER ABOVE NOF	TH F	ORK T	12S,	R26E, S	ec. 2	7												
1/11 1505 2/9 1520 3/8 1345 4/12 1220 5/10 1245 6/14 1245 7/13 1045 8/16 1450	262 296 538 1100 2160 3850 1370 372	397 555 557 74	12.0 11.4 10.4 11.4 10.0 10.3 9.1 8.3	91 97 92 101 95 96 101 96	62.3 62.0 57.8 36.1 30.6 30.6 39.6 40.9	6.9 7.1 7.2 7.1 7.2 7.0 6.8 7.2	7.7 7.3 7.2 1.8 3.6 3.4 5.1	0.3 0.4 1.0 1.4 0.2 0.2	4.3 3.9 2.2 1.1 2.4	0.6 0.8 0.5 0.5 1.1 0.7		27 25 16 16 10 11	1.7	3.0 2.5 1.5 1.0 0.8 1.5	0.2	0.2	0.22 0.01 0.00 0.03 0.02 0.02 0.00 0.14	28	30 31 27 37 31 21 38 27
KINGS RIV	ER BELOW NOF	TH F	ORK																
9/13 1200 10/11 1200 11/9 1400 12/9 1330	131 1375	69 66 60 50	7.4 9.6 9.6 10.3	81 103 96 91	59.3 68.1 71.7 51.2	7.1	6.4 6.7 7.6 6.0	0.8 1.2 0.5 1.0	3.6 4.4 2.7	1.0 1.1 1.2 1.0	0 0 0	26 28 30 23	4.8	1.6 1.3 3.8 0.5	0.0	0,2	0.00 0.04 0.00 0.04		28 29 30 22
KINGS RIV	ER AT PINE H	LAT	DAM																
9/12 0900 10/11 1330 11/9 1600 12/9 1540	986 72 10 40	59 71 64 55	9.8 8.1 9.9 11.1	97 91 103 104	28.1 62.9 62.3 62.0	7.1	3.4 6.6 6.6	0.4 1.6 1.1 1.3	1.3 3.3 3.3 3.0	0.5 1.1 1.1 1.3	0 0 0	16 29 28 28	0.0 3.2	0.5 1.0 2.2 2.5	0.4	0.0	0.03 0.03 0.02 0.00		21 23 24 26
KINGS RIVI	ER AT PIEDRA	Tl	35 R2	4ε, s	ec. 8														
1/11 1325 2/9 1635 3/8 1200 4/12 1100 5/10 1030 6/14 1045 7/13 0900 8/16 1305	241 605 1567 705 5262 3798 2340	46 49 55 50 57 53	10.9 13.0 10.0 11.1 9.8 11.5	91 104 116 101 104 109 105	162 87.6 88.2 59.3 46.9 27.6 35.6 51.8	7.3 7.6 7.4 8 7.8 7.8 7.8 7.8 7.2	17 8.4 4.0 5.8 4.0 5.8 0 0	5220 2020 2020 2020 2027	10 5.3 3.7 3.2 1.4 3.2	$ \begin{array}{c} 1.7\\ 1.0\\ 1.1\\ 1.0\\ 0.8\\ 0.4\\ 1.4\\ 0.8 \end{array} $		79 40 28 24 13 26	2.3	9.8 3.5 2.0 0.8 1.2 1.0	0.2	0.1	0.09 0.00 0.04 0.01 0.05 0.05 0.05	38	2563770227
KINGS RIV	ER AT PEOPLE	s we	IR T1	7S, R	22E, Se	c. 1													
1/10 1600 2/10 1600 3/9 1530 4/13 1330 5/10 1550 6/15 1350 7/14 0945 8/17 0815 9/14 1720 10/11 0900 11/15 0915 12/13 1500	35 89 253 140 1090 692 1096 377 13	4561534348290	10.3 9.1 9.8 9.8 9.8 9.8 9.8 7.9 9.7 9.9	86 93 91 93 97 94 101 86 65 87	212 207 103 159 116 35.8 40.7 43.9 106 234 228	7.382443807777776.291133	22 19 9.6 11 4.0 4.2 4.7 9.9 20 21	5.07 37310901 114675	14 13 5.9 10 7.2 3.3 2 2.5 5 2 2 5 5 16 14	2.1 2.49 1.50 1.18 7.528 1.528	000000000000000000000000000000000000000	109 108 50 86 59 20 18 21 23 56 118 112	5.1 2.6	05553555555555555555555555555555555555	0.1 0.3	0.1		78 32	222222222244406

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### CHANGES TO PREVIOUSLY PUBLISHED WATER SUPERVISION REPORTS

B3 Table 71 Oeneral Acreage 104269 104244	sreage         56516           age         67           1 Acreage         98493           pr11         -           xy         -           une         2243           tona         805           pres         7269           tola         46528           age         23990           age         285           1 Acreage         200836           age         353           1 Acreage         3353           age         3353	To 93763 56504 (2 98488 235 654 3755 1130 7943 5000 761 23980 315 100866 25 3343 439 85502
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	age 67 1 Acreage 98493 pr11 - bin - pr. 895 pr. 895	62 98488 235 634 3755 1130 8538 7943 50040 761 23980 315 100866 25 3343 439
	age 67 1 Acreage 98493 pr11 - bin - pr. 895 pr. 895	62 98488 235 634 3755 1130 8538 7943 50040 761 23980 315 100866 25 3343 439
By         By         A. Lingst         General Asreage         40         30         40         32.50         Colline Boothers         General Asreage         General Asreage         132         132         14.00         40         32.50         Colline Boothers         General Asreage         General Asreag	age 67 1 Acreage 98493 pr11 - bin - pr. 895 pr. 895	62 98488 235 633 3755 1130 8530 7943 50040 761 23980 315 100866 25 3343 439
1906         19.4 st. Lingst         0 eeneral Acreage         40         30         40         32.5         Collier Brethers         0 eneral Acreage           195         114.20         Moree and Langdon         Beneral Acreage         135         100         48         5         Table 29         Table 29 </td <td>1 Acreage         98493           pril         -           bre         789           bre         -           bre         -           bre         -           age         771           1 Acreage         23990           age         100836           age         100836           age         353           1 Acreage         3533           age         449           1 Acreage         85595           1 Acreage         85595</td> <td>98488 235 634 3755 1130 8658 7943 50040 761 23980 315 100866 25 3343 439</td>	1 Acreage         98493           pril         -           bre         789           bre         -           bre         -           bre         -           age         771           1 Acreage         23990           age         100836           age         100836           age         353           1 Acreage         3533           age         449           1 Acreage         85595           1 Acreage         85595	98488 235 634 3755 1130 8658 7943 50040 761 23980 315 100866 25 3343 439
Box         114, 28         Moree and Langdon         General Acreage         135         120         48         Table 29         Total General Light or Total 1350         Total General Light or Total 1350         148         Table 29         1255         Total General Light or Total 1350         148         Table 29         1255         1255           83         Table 71         Total General Acreage         10450         1350         1250         1250         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255         1255	1 Acreage         98493           pril         -           bre         789           bre         -           bre         -           bre         -           age         771           1 Acreage         23990           age         100836           age         100836           age         353           1 Acreage         3533           age         449           1 Acreage         85595           1 Acreage         85595	98488 235 634 3755 1130 8658 7943 50040 761 23980 315 100866 25 3343 439
195       11.27       Morse and Langdon       Add to table point of the ship openeral Act biol       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       1000       10000       1000       1000       <	pril - yr - yr - pril - yr - pril - 2243 5070 - 895 897 - 805 897 - 805 805 1 Acreage - 100836 age - 100836 age - 100836 age - 353 1 Acreage - 353 1 Acreage - 353 1 Acreage - 355 1 Acreage - 355 355 1 Acreage - 355 355 355 355 355 355 355 35	235 623 654 3755 1130 8633 50040 761 23980 315 100866 25 3343 439
83         Table 71         100         00mmersi Acreage         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         10	ay         -           wrei         -           otal         2243           long         295           otal         8015           by         8016           by         8016           by         8016           age         23990           age         200836           age         100836           age         353           age         3409           age         4409           1 Acreage         85595           1 Acreage         85595	654 3755 7943 50040 761 23980 315 100866 25 3343 439
83         Table 71         100         00mmersi Acreage         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         100 20         10	ay         -           wrei         -           otal         2243           long         295           otal         8015           by         8016           by         8016           by         8016           age         23990           age         200836           age         100836           age         353           age         3409           age         4409           1 Acreage         85595           1 Acreage         85595	6654 3755 1130 8658 7943 50040 761 23980 315 100866 25 3343 439
83         Table 71         Total General Acreage         104269         104244         Total Margan         Total Operation         Total Operat	iona         895           by         8015           by         8011           potal         48528           age         771           1 Acreage         23990           age         285           1 Acreage         100836           age         353           1 Acreage         3533           age         449           1 Acreage         85595           1 Acreage         85595	1130 8638 7943 50040 761 23980 315 100866 25 3343 439
1022 Telefing to Sacramento Ever Bedding to Sacramento Ever Section to Sacramento Ever Bedding to Sacramento Ever Section to Sacramen	ay         8015           mre         7289           stal         48528           age         771           1 Acreage         23990           age         23990           age         23990           age         2085           1 Acreage         23990           age         100836           age         353           age         353           age         449           1 Acreage         85595           1 Acreage         85595	7943 50040 761 23980 315 100866 25 3343 439
Total Bestimuster         Table 57 - Sacramento Iniver, Redding to Sacramento Deneral Acreage         Total Acreage Total Acreage         Total Openeral Acreage         Total Openeral Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento Socramento	tal         48528           age         771           1 Acreage         23990           age         285           1 Acreage         200836           age         353           1 Acreage         3533           age         449           1 Acreage         85595           1 Acreage         85595	50040 761 23980 315 100866 25 3343 439
b5       36.7L 195       Anedeo Morone       Oeneral Acreage       40       70       61       24.0L       Alitia Mutual Water Co.       Oeneral Acreage       1297       Total General Acreage       1297       Total General Acreage       1297       Total General Acreage       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297       1297 <td>1 Acreage         23990           age         285           1 Acreage         100836           age         353           1 Acreage         3353           age         449           1 Acreage         85595           1 Acreage         85595</td> <td>23980 315 100866 25 3343 439</td>	1 Acreage         23990           age         285           1 Acreage         100836           age         353           1 Acreage         3353           age         449           1 Acreage         85595           1 Acreage         85595	23980 315 100866 25 3343 439
195       36.7.L       Amedeo Morone       Oeneral Acreage       40       70       62       Table 37       Total General         86.       Total 75.1L       J. H. Yates       Oeneral Acreage       35       53       50       86.7L       W. D. DeJarnett       Total General Acreage       76222       77270       50       86.7L       W. D. DeJarnett       General Acreage       76222       77270       50       86.7L       W. D. DeJarnett       Total General Acreage       76222       77270       50       86.7L       W. D. DeJarnett       Total General Acreage       76222       77270       50       86.7L       W. D. DeJarnett       Total General Acreage       76222       77270       50       86.7L       W. D. DeJarnett       Total General Acreage       76222       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77270       7622       77	age 285 1 Acreage 100836 age 35 1 Acreage 3353 age 449 1 Acreage 85595 10"	315 100866 25 3343 439
211     76.1L     J. H. Yates     General Acreage     55     53     50     88.7L     W. D. DeJarnett     General Acreage       99     Table 72     1927     Total General Acreage     76222     77270     54     Table 32     Total General Acreage       99     26.95R     Rershey Satate     0iversions June     216     76     Table 39     Table 39       102     90.0L     Frank Beckley     Mile & Bank column     90.0L     98.0L     55     Table 35     Table 35       105     Table 74     Total Diversions Apr.     3137     31326     56     8.65R     8. Ashe     Pootnote (5)       105     Table 74     Total Diversions Apr.     3127     31326     256     8.65R     8. Ashe     Pootnote (5)       137     24.0L     Alicia Mutual Water Co.     Pootnote #3     May 19     May 19     May 18     62     Table 39     Total General Acreage       137     24.0L     Alicia Mutual Water Co.     Pootnote #3     May 19     May 18     62     Table 39     Total General Acreage       137     24.0L     Alicia Mutual Water Co.     Pootnote #3     May 19     May 18     62     Table 39     Total General Acreage       137     19.3.5L     R. R. Howell     Diversions	1 Acreage 100836 age 35 1 Acreage 3353 age 449 1 Acreage 85595 10"	100866 25 3343 439
89     Table 72     Total General Acreage     7622     77270     50     88.7L     W. O. De Jarnett     General Acreage       99, 26.95R     Hershey Batate     1927     102     90.0L     Frank Beckley     Diversions June     216     67     Table 32     Total General Acreage       102     90.0L     Frank Beckley     Mile & Bank column     90.0L     98.0L     55     Table 35     Total General Acreage       105     221.0R     Johnson & Coates     Diversions July     168     158     56     8.658     S. Ashe     Pootnote (5)       105     Table 74     Total Diversions Apr.     20364     203674     62     Table 35     Total General Acreage       137     24.0L     Alicia Mutual Water Co.     Footnote #3     May 19     May 18     62     Table 39     Total General Acreage       29     56.658     J. M. Miller     General Acreage     50     41     62     Table 35     Total General Acreage       39     Table 15     Total Oiversions Apr.     1938     13874     11     64     79     43.1R     River Parma Co., (R.D. 20År Plant)     General Acreage       39     Table 15     Total General Acreage     50     41     65     Table 56     Table 56     Table 6.5	1 Acreage 100836 age 35 1 Acreage 3353 age 449 1 Acreage 85595 10"	100866 25 3343 439
193726.95RHershey SatateDiversions Juny Juny Aug. Sept.26.6 388 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 398 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 3000 3000 3000 3000 3000 3000 3000 3000 <br< td=""><td>age 35 1 Acreage 3353 age 449 1 Acreage 85595 10"</td><td>25 3343 439</td></br<>	age 35 1 Acreage 3353 age 449 1 Acreage 85595 10"	25 3343 439
99 18326.95R 26.95RHerahey BatateDiversions June July Age, Sept.216 388 27 13066 2.48 216 1307able 39Total General 1293102 10590.0L 20.0LFrank BeckleyMile & Bank column Diversions June Sept.90.0L 13098.0L 13096.0L 13096.0L 557able 35Total General Acre 206564105 105221.0R Table 74Johnson & Coates Table 74Diversions June Diversions June June161 23112731326 20656455Table 35Total General Acre 206564137 137 24.0LAlicia Mutual Water Co.Potnote #3May 19 May 19May 18 23111662Table 39Foights Landing Ridge CutGeneral Acre 200564137 24.0LAlicia Mutual Water Co.Potnote #3May 19 May 18 Sept.May 19 May 18 62River Parma Co. River Parma Co. 85General Acre River Parma Co. 85General Acre Ridge Cut137 2424.0LAlicia Mutual Water Co.Potnote #3May 19 May 18 SoughMay 18 62River Parma Co. River Parma Co. 85General Acre Ridge Cut137 2524.0LJ.M. MillerOeneral Acreage Sept.5041 6362Table 55 Folia Landing to Wilkins SloughTotal General Acreage Scough139 39Table 15Total Oliversions Apr. Sept.13828 6336154.8R 610eneral Acre 41139 39Table 56Total Oliversions Apr. Stoaph<	1 Acreage 3353 age 449 1 Acreage 85595 10"	3343 439
July Aug: BerloJuly Aug: Sept.388 130226 328 13019019010290.0LFrank BeckleyMile & Bank column90.0L98.0L55Table 35Total General Acre105221.0RJohnson & CoatesDiversions July1616755Table 35Total General Acre105221.0RJohnson & CoatesDiversions Apr. June3137 20686431387 20686431387 20686431387 20686431380 206871614.55Ralph W. PollockGeneral Acre Potnote (5)13724.0LAlicia Mutual Water Co.Pootnote #3May 19 2028May 19May 1662Table 39Mile ta Landing Ridge CutGeneral Acre 2028713724.0LAlicia Mutual Water Co.Pootnote #3May 19 May 18May 1962Table 39Total General Ridge Cut13724.0LMutual Water Co.Pootnote #3May 19 May 19May 1862Table 30General Acre Ridge Cut13729.5LN. MillerGeneral Acreage50Al60Table 30Total General Ridge Cut137193.5LN. MillerGeneral Acreage50Al80Total General Cut7943.18River Parms Co. (R.D. 2047 Flant)General Acre Rice Acreage137193.5LR. HowellDiversions May Total General Acreage111184 20476694.38Tottil Land Co.General Acre Cut13	age 449 1 Acreage 85595 10"	439
10290.0LFrank BeckleyMile & Bank column90.0L98.0L4963.2RR. D. 108 (Wilkins Slough)General Acre105221.0RJonnson & CoatesDiversions July168137312655Table 35Total General105Table 74Total Diversions Apr.313273128568.65RS. AshePootnote (5)10724.0LAlicia Mutual Water Co.Pootnote #3May 19May 1862Table 39Knights LandingGeneral Acre13724.0LAlicia Mutual Water Co.Pootnote #3May 19May 1862Table 39Knights LandingGeneral Acre19291929General Acreage504162Table 39Coights LandingGeneral Acreage2956.56RJ. M. MillerGeneral Acreage504160Table 55Solution to thin and to the Arreage603289.25LPhil B. AmoldGeneral Acreage504160Table 56Solution to thin and to the Arreage6137193.5LR. R. HowellDiversions May114894.3RCutter Land Co.General Acre39Table 15Total Oliversions Apr.12883168831589566154.86Glenn-Colusa I. D.General Acre39Table 15Total Oliversions Apr.12886310773610773610773610773610773639Table 15Total Oliversions Apr.128863107363167365 <td>1 Acreage 85595</td> <td></td>	1 Acreage 85595	
102     90.0L     Frank Beckley     Mile & Bank column     90.0L     98.0L     55     Table 35     Total General       105     221.0R     Johnson & Coates     Diversions July     168     137     138     55     8.65R     S. Ashe     Pootnote (5)       105     Table 74     Total Diversions Apr.     2306826     206871     61     4.55I     Ralph M. Follock     General Acre       137     24.0L     Alicia Mutual Water Co.     Pootnote #3     May 19     May 18     62     Table 39     Fraide Cut     Total General       137     24.0L     Alicia Mutual Water Co.     Pootnote #3     May 19     May 18     62     Table 39     Fraide Cut     Total General       137     24.0L     Miller     Oeneral Acreage     50     41     62     Table 39     Fraide Cut	1 Acreage 85595	
105221.0RJohnson & CoatesDiversions July168158568.65RS. AshePootnote (5)105Table 74Total Diversions Apr. June3137731377 234.0L31377 Alicia Mutual Water Co.1328 Period 1929-1954, Mnual Reports62Table 39Knights Landing Ridge CutGeneral Acre13724.0LAlicia Mutual Water Co.Pootnote #3May 19May 1862Table 39Knights Landing Ridge CutGeneral Acre13724.0LAlicia Mutual Water Co.Pootnote #3May 19May 1862Table 39Total General Acre2956.65RJ. M. MillerOeneral Acreage504162Table 39Total General Acreage3289.55DFhil B. A.moldOeneral Acreage504180Table 56Total General37193.5LR. R. HowellDiversions May Linge 911 Auge48494.3RRitter Land Co.General Acre Rides Cut to Butte39Table 15Total Oliversions Apr. Linge 913583135824 Linge 966154.8RGlenc-Clusa I. D.General Acre Redding 640Maxwell I. D. (Flant #6)Diversions July96486410010.08Table 56 - Sacramento to Redding 6Total Genera40Maxwell I. D. (Flant #6)Diversions July96486410011.0RHalwood I. D.General Acre	10"	85585
105       Table 74       Total Diversions Apr.       31377       31377       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       31376       200571       200571       200571       200571       239106       62       Table 39 Krights Landing       Deneral Acres         137       24,0L       Alicia Mutual Water Co.       Pootnote #3       May 19       May 19       May 10       62       Table 39       Total General       Acres         137       24,0L       Alicia Mutual Water Co.       Pootnote #3       May 19       May 19       May 10       62       Table 39       Total General       Acres         1322       9       56.658       J. M. Miller       Oeneral Acreage       50       Al       79       43.18       River Parms Co.       River Acreage       7041       Angre       70       43.18       River Parms Co.       7041       66       55       7051       7051       70510       70510       70510	110-4.0	34"
June     June     234116     234136     61     4,55L     Raiph W. Follock     General Acres       137     24,0L     Alicia Mutual Water Co.     Pootnote #3     May 19     May 19     May 16     62     Table 39     Table 39     Oeneral Acres     Oeneral Acres       137     24,0L     Alicia Mutual Water Co.     Pootnote #3     May 19     May 16     62     Table 39     Total General     Oeneral Acres       1922     1922     1922     1922     1922     1922     Oeneral Acres     1922       29     56.658     J. M. Miller     Oeneral Acreage     50     41     80     Table 50     Might Standing     Oeneral Acreage       37     193.5L     R. R. Howell     Diversions May     11     4     84     94.38     Tutle Land Co.     General Acreage       39     Table 15     Total Oliversions Apr.     138283     138284     86     154.88     Oeneral Acreage     7     Total General       39     Table 15     Total Oliversions Apr.     138283     138284     86     154.88     Oeneral Acreage     7     Total General       39     Table 15     Total Oliversions Apr.     138283     138284     88     7     7     Table 56     Total General <t< td=""><td></td><td>unit</td></t<>		unit
137     24,0L     Allcia Mutual Water Co.     Pootnote #3     May 19     May 19     May 18     End de Cut     Ridge Cut       137     24,0L     Allcia Mutual Water Co.     Period 1929-1954, Annual Reports     1920     Table 39     Total General       29     56.65R     J. M. Miller     Oeneral Acreage     50     41     62     Table 39     General Acreage       32     89,25L     Phil B. A.nold     Oeneral Acreage     80     85     80     Table 56     Wilking to Wilking       37     193.5L     R. R. Howell     Diversions May     11     84     94.3R     Tutle Land Co.     General Acreage       39     Table 15     Total Oliversions Apr.     13828     138284     66     154.8R     Olenn-Colusa I, D.     Oeneral Acreage       39     Table 15     Total Oliversions Apr.     13828     138284     66     154.8R     Olenn-Colusa I, D.     Oeneral Acreage       39     Table 15     Total Oliversions Apr.     13828     138284     66     154.8R     Olenn-Colusa I, D.     Oeneral Acreage       40     Maxwell I, D. (Plant #6)     Diversions July     964     864     100     10.0R     Redding       40     Maxwell I, D. (Plant #6)     Diversions July     964     864 <td< td=""><td>-</td><td>75</td></td<>	-	75
Period 1929-1954, Annual Reports     1920       1922     1922       29     56.55R J. M. Miller       32     89.55L Phil B. Anold       37     193.5L       R. R. Howell     Diversions May       193     Diversions May       193     Diversions May       193     Table 15       Total Oliversions Apr.     135914       193     Table 15       193     Total Oliversions Apr.       193     Total Oliversions Apr.       193     Table 15       193     Total Oliversions Apr.       193     Total Oliversions July       194     136914       195     Tota	age 230	255
1929Openeral Acreage50A179A3.1RRiver Parms CO. (R.D. 2047 Flant))General Acreage2956.65RJ. M. MillerOpeneral Acreage50A180Table 56Table 563289.25LPhil B. A.moldOpeneral Acreage808580Table 56Table 5637193.5LR. R. HowellDiversions May1148494.3RTuttle Land CO.General Acreage39Table 15Total Oliversions Apr.13883138831389466154.8ROlenn-Colusa I. D.General Acre39Table 15Total Oliversions Apr.138831389466154.8ROlenn-Colusa I. D.General Acre40Maxwell I. D. (Plant #6)Diversions July96486410010.0RTables 56 - Sacramento to ReddingTotal Oliversions July40Maxwell I. D. (Plant #6)Diversions July96486410010.0RHalwood I. D.General Acre	1 Acreage 6688	6713
29       56.65R       J. M. Miller       Oeneral Acreage       50       41       (R. D. 2047 Flant)       Rice Acreage         32       89.25L       Phil B. A.mold       Oeneral Acreage       80       85       Table 56       Klights Landing to Wilkins       Total General Acreage         37       193.5L       R. R. Howell       Diversions May       11       4       84       94.3R       Tutle Land Co.       General Acreage       6       5       Total General Acreage       70 tal General Acreage       80       71       71       84       94.3R       Tutle Land Co.       General Acreage       6       15       70 tal General Acreage       70 tal General Acreage       80       71       70 tal General Acreage       70 tal General Acreage       70 tal General Acreage       70 tal General Acreage       80       71       71       70 tal General Acreage       70 tal		
29     56.55R     J. M. Miller     Oeneral Acreage     50     41       32     89.55J     Phil B. Amold     Oeneral Acreage     80     85     Table 56     Knights Landing to Wilkins     Total General Acreage       37     193.5L     R. R. Howell     Diversions May     11     4     94.3R     Tuttle Land Co.     General Acreage       39     Table 15     Total Giversions Apr.     13828     138284     66     154.8R     Olenn-Colusa I. D.     Oeneral Acreage       39     Table 15     Total Giversions Apr.     13828     138284     86     154.8R     Olenn-Colusa I. D.     Oeneral Acreage       40     Maxwell I. D. (Flant #6)     Diversions July     964     864     100     10.0R     Radius     Total General Acreage       40     Maxwell I. D. (Flant #6)     Diversions July     964     864     100     1.0R     Halwood I. D.     General Acreage	age 5202 2803	4540 2083
32     89,25L     Phil B. Amold     Oeneral Acreage     80     85     Knights Landing to Wilking       37     193.5L     R. R. Howell     Diversions May June     11 Aug.     4 9     84     94.3R     Tuttle Land Co.     General Acre Slough       39     Table 15     Total Oliversions Apr.     138283 June     138284 204560     66     154.8R     Olenn-Colusa I. D.     General Acre Total Oliversions Apr.       40     Maxwell I. D. (Flant #6)     Diversions July     964     135944     136914     100     10.0R     Redament to Redding     Total Oliversions July       40     Maxwell I. D. (Flant #6)     Diversions July     964     864     100     10.0R     Halwood I. D.     General Acre		12458
39     Table 15     Total Olversions Apr.     138294 Aug.     138294 20356     88     94.38     Tutle Land Co.     General Acre Total Oneral       39     Table 15     Total Olversions Apr.     138294 20356     138294 20356     86     154.88     Olenn-Colusa I. D.     General Acre Total Oneral       40     Maxwell I. D. (Flant #6)     Diversions July     964     864     100     1.08     864       40     Maxwell I. D. (Flant #6)     Diversions July     964     864     100     1.08     Halwood I. D.     General Acre		
39     Table 15     Total Olversions Apr.     138294 20360     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450     203450 <td>age 418</td> <td>458</td>	age 418	458
39         Table 15         Total Olversions Apr. Nay         138284 20360         138284 20360         86         154.8R         Olenn-Colusa I, D.         General Acre Total General Bull           40         Maxwell I, D. (Flant #6)         Diversions July         96         864         154.8R         Olenn-Colusa I, D.         General Acre Total General Bull         Total	Acreage 6802	6842
40     Maxwell I, D. (Flant #6)     Diversions July     964     864     100     11.0R     Redding     56 - Butte City to Red     Total General       40     Maxwell I, D. (Flant #6)     Diversions July     964     864     100     11.0R     Redding     Total Deneral Acreage	10520	lioneli
40 Maxwell I, D. (Flant #6) Diversions July 964 864 100 11.0R Hallwood I. D. General Acreage 136914 136910 100 11.0R Hallwood I. D. General Acreage 136914 136910 100 11.0R Hallwood I. D. General Acre		40154 57810
40 Maxwell I, D. (Plant #6) Diversions July 964 864 100 11.0. General Acreage 136914 (156916) 100 11.0. General Acreage 136914 (16600) 100 11.0. General Acre	r wereage	5/010
40 Maxwell I, D. (Plant #6) Diversions July 964 864 95 4.5N* R. S. Hughes (Sam Arnold) Total Divers 1930 100 11.0R Hallwood I. D. General Acre	1 Acreage 158768	157771
40 Maxwell I, D. (Plant #6) Diversions July 964 864 100 11.0R Hallwood I. D. General Acre	iona 2242	2442
1930		4727
	1 Acreage 6642	6645
26 30.75L J. 0. Goulart General Agreage 36 33		
38 141,5L Parrott-Phelan Eatate Pootnote #4 Total 12000 12020 75 West Coast Life Ins. Co. Mile & Bank	21.7L	21.7R
41 240,2L Wm, Menzel Meat Co. General Acreage 110 85 70 50 857 7 10 10 96 (subtra Dard Diversions A	-	41
42     Table 15     Total General Acreage     96597     96547     78     59.858     R.D. 108 (Steiner Bend Plant)     General Acrea		370 7779
47 28,48 Butte Slough Irr. Co., Ltd. Add to table Wilkins Slough	. Acreage (310	
By-Pasa) July 372 85 240, 3R John Diestelhorst Oiversions S	ept. 168 ct. 10	8
Sept. 441 Total 1426	otal 255	89
1911 B5 Table 61 - Red Bluff to Total Divers Redding	ept, 21172	21012
All Diversion Tables Total Diversion April March 0	ct. 17191 otal 116052	17185 115886
Heading to bet. to Oct.	ept. 356	353 238
68 78.8R Sebia Davis Oeneral Acreage 1500 - Rice Acreage - 1500 85 Table 61 - Sacramento to Total Divers		230
74 Table 30 Total General Acreage 141505 141500 Redding S	ept. 119951 ct. 43988	119791 43982
	otal 1062630	1062464
(By-Pass) June 239 2935	ept. 2016 ct. 715	2013 716 2186
Aug. 554 2455 70tal Oerra Sept. 441 165 70tal Oerra	2187 1 Acreage 119730	2186 120191
Oct 218 Total 1436 13161 88 3.9R R. D. 1004 Change Note		No
1932	Plant	Diver- sions
41 63.751 Sutter Mutual Water Co. Pootnote #3 Total 92 0.75 Robert Swanston Pootnote #8		60 from
8701 8512	Plant Disman- tled 90	from well
1933     95     48.3L     E. P. Bigge     Oeneral Acres       71     154.8R     Princeton-Codora-Glenn I.G.     General Acres     2953     2957	Plant Diaman- tled	
72 240.21 Mm. Menzel Meat Co. General Acrease 120 110 95 Table 66 Total General	Plant Disman- tled 90 from well	352
102 13.9R Mary Deterding Total Acreage 35 70 97 4.2R C. Swanston & Sons Oeneral Acre	Plant Disman- led 90 from well age 362 1 Acreage 30117	352 30107
102 Table 66 Total Arrage 2864 2883	Plant Disman- lted age 362 1 Acreage 30117 age 173	352 30107 160
1934	Plant Disman- lted age 362 1 Acreage 30117 age 173	352 30107
76 56.95L p. W. Stretter Rice Acreage 300 288 85 49.7L p. J. Olenn Correct name	Plant Disman- tied 90 from well age 362 1 Acreage 30117 age 173 1 Acreage 861	352 30107 160 848
82 240.2L km. Menzel Meat Co. General Acreage 155 135	Plant Disman- lted age 362 1 Acreage 30117 age 173	352 30107 160 848 0lenn J.
	Plant Oleman- tied % % % % % % % % % % % % % % % % % % %	352 30107 160 848

	Mile	Location of Error	Item	Char	ige		Mile	Location of Error	Item	Char	ige
Fage	& Bank	Hame		From	To	Page	& Bank	Name		From	To
		<u>1941 (Co</u>	ntd.)					<u>1944 (Co</u>	ntd.)		
91		Table 62 - Colusa to Butte City	Total Diversions Apr. Monthly Use in ≸ of	15	16 0.2	1-100-1	24.6L	H. H. Balsdon	Qeneral Acreage	725	745
		1	Seasonal			T-100-2		Table 100	Total General Acreage	965	985
94		Table 62 - Sacramento to Redding	Total Diversions Apr. Total	5274 1150115	5275 1150116	. 103	18,0R	Harms Brothers	Footnote 19	1	Add: "at which
105	55.1L	Nearat Estate	Diversions Total	740	704						time it was listed
		1942						1945			aa Mile 18.958"
	158.8R	Olenn-Colusa I. D.	General Acreage	30579	30649	105	43.1R	R. D. 2047	General Acreage	1447	1347
97 97	196.6L	S. & E. Erickson Table 69 - Butte City to	Oeneral Acreage Total General Acreage	47696	33 47763	105	60.41L	F. L. Burrell	Rice Acreage	150	50
		Red Bluff				105		Table 109 - Knights Landing to Wilkins Slough	Total General Acreage Total Rice Acreage	9757 13094	9657 12994
96		Table 69 - Sacramento to Redding	Total General Acreage	111226	111293	107	141.5L	M & T Inc. & Parrott	General Acreage	4020	4096
107	18.75	0, C. Shannon	General Acreage	24	74	108		Investment Co. Table 109 - Butte City to	Rice Acreage Total General Acreage	1960 36103	1962 36179
108		Table 74	Total General Acreage Total Rice Acreage	38477 25177	25177 38477			Red Bluff	Total Rice Acreage	48715	48717
		1943				108		Table 109 - Sacramento to Redding	Av. Cu. Ft./second July	5766	5641
93	81.9R	Steidimayer Bros.	Oeneral Acreage	860	760	108			Aug. Total General Acreage	5422 106545	5304 106521
93	87.7R	Swinford Tract Irr. Co.	Total Diversion	260	270	100			Total Rice Acreage	115115	115017
93		Table 71 - Wilkins Slough to Colusa	Total Diversions April	24118	27294	110	0.3L	Back Borrow Pit - River Farms	Total Diversion	1748	4748
			May June	72132	79393 73922 78376	110	4.5R	Table 112, Kenneth Lowe	Rice Acreage Total Rice Acreage	300 3320	350 3370
			July Aug, Sept,	68480 68837 35620	78376 78725 40501	112	1.4N (1.75)	E. H. Christenson (Hale Ranch)	Change note	Plant Removed	No Diver-
			Oct. Total	125 333715	135		(-)(2)	********		, icino red	aion
			Av. Cu. Ft./second April	405	459	113	2,6R	Walter Raymond	June Diversion Total Diversion	763 6946	712 6895
			May June July	1174 1081 1114	1293 1242 1276	113		Table 116	Total June Diversion Total Diversion	133918 698394	133867 698343
			Aug. Sept.	1120 599 686	1282			1946	TOORT PRICIPION	030334	0,0,0,1
			Total Monthly Use in % of	686	778	103	9.35R	Capital Co (Utterback)	General Acreage	165	162
			Seasonal May June	21.6 19.3	21.0	103	14.1L	Elkhorn Mutual Water Co.	General Acreage	2038	2035
			July Aug.	20.6	19.5 20.7 20.8	304		Table 115 - Sacramento to Verona	Total General Acreage	10722	10716
98		Table 71 - Sacramento to	Total General Acreage	29580	29480	106	69.0R	J. L. Browning	General Acreage	210	476
		Redding	Total Diversions April May	61409 257673	64585 264934	107	88.7L	W. D. DeJarnett & Mayfair Packing Co.	General Acreage	174	114
			June July	276759	286278	107		Table 115 - Wilkins Slough to	Total General Acreage	30861	31067
			Aug. Sept.	288024 190456	297912			Colusa			
			Oct. Total	51915 1416935	51925 1461566	108	112.1L	R. D. 1004 Table 115 - Colusa to Butte	Diversions Total Total Rice Acreage	37010 8445	47010 6445
			Av. Cu. Ft./second April May	1032 4191	1085 4315	100		City	TOTAL RICE ACTEAKE	0445	0449
			June July	4651 4699	4811 4867		116.7R	Butte City Ranch	General Acreage	-	35
			Aug. Sept.	4684 3201 844	4852 3283 846	108	123.9R	Princeton-Codora Glenn I.D.	Footnote (8)	Oeneral Acreage	Total Diver-
			Oct. Total Monthly Use in ≸ of	2916	3007	108	124.2R	Provident I. D.	Pootnote (8)	0eneral	sion Total
			Seasonal April	4.3	4.4	100		HOFACITO IL DI	10000000 (0)	Acreage	Diver- sions
			May June	4.3 18.2 19.5	18.1 19.6	108	154.8R	Glenn-Colusa I. D.	Pootnote (16)		Insert
			Aug, Sept. Oct.	20.3	20.4						"not" after
			Total General Acreage	126266	126166	109	154.8R	Princeton-Codora-Glenn I.D.	General Acreage	2204	April 2143
101	33.OR	A. Davis Estate	Mile & Bank column	(4)	(6)				Rice Acreage	3458	3531
101 101	33.9L 37.0L	Mrs. Belle Moore W. H. O'Hair	Footnote (4) Diversions Aug.	Delete	(4)	109		Table 115 - Butte City to Red Bluff	Total Diversions July Total	129460 729606	129461 729607
108	17.5L	Plumas Mutual Water Co.	Oeneral Acreage	771 795	774 815				Av, Cu, Ft,/second July	2170	2108
109		Table 76	Total General Acreage	24089	24104				Total General Acreage Total Rice Acreage	38934 53195	38873 53268
		<u>1944</u>				109	206.751	C. C, Budd	Total Diversion	-	(8)
T-55		Runoff in Acre-Feet	October	5105	10130	109	246.OR	Anderson-Cottonwood I.D.	Diversions July	22625	23625
T-98-2	9.35R		General Acreage	335	325	109		Table 115	Total Diversions July Av. Cu. Pt./second	341952	341953
T-98-2	14.1L	Elkhorn Mutual Water Co.	Rice Acreage	2869	2868				July Total General Acreage	5560 117556	5569 117695
T-98-3		Table 98 - Sacramento to Verona	Total General Acreage Total Rice Acreage	8781 11687	8771 11686	110	Opp	Charles Welch	Total Rice Acreage	124135 200	124208
T-98-5	42.OR	Bl Dorado Ranch (Lohse)	Oeneral Acreage Rice Acreage	307 500	450 450		7.25R				
<b>T-98-6</b>		Table 98 - Knights Landing to Wilkins Slough	Total General Acreage	8086	8229	110		Table 116	Total General Acreage	3030	2830
т-98-9	04 38	to Wilkins Slough Tuttle Land Co.	Total Rice Acreage General Acreage	14459	14409	67		1947 Table 55 - Yolo By-Pass near	Runoff in Acre-Feet		
T-98-10	1.10	Table 98 - Colusa to Eutte	Total Oeneral Acreage	257 4478	157 4378	01		Woodland	Jan. Feb.	367 9099	728 18050
		City							Mar. Apr.	9099 10727 3535 1480	18050 21280 7010
T-98-11 T-98-11		Glenn-Colusa I. D.	Rice Acreage	36227	36223 826				May June	1480	2940 1540 2160
		Provident Irrigation District	General Acreage Rice Acreage	1107 7582	836 7588				July Aug. Sept.	774 1592 1387 1827	3160 2750 3620
T-98-11		Footnote (8)	General Acreage	33	43				Oct. Nov.	233.6	867 463
T-98-12		Table 98 - Butte City to Red Bluff	Total General Acreage Total Rice Acreage	40614 56620	40343 50622		20.05	Mable 02 Free Oliver	Dec.	315.7	626
r-98-13		Table 98 - Sacramento to Redding	Total General Acreage	111871	111633	91	30.2L	Table 93, Leo Giovanetti	Add name & note "no di table	version"	to
T-99-2	22. OR	Henry Jameson Estate	Total Rice Acreage Rice Acreage	122243 160	122194 360		154.8R	Olenn-Colusa I. D.	General Acreage	22881	22971
		Table 99 - Colusa Trough	Total Rice Acreage	4487	4087	97		Table 93 - Butte City to Red Bluff	Total General Acreage	38149	38239
<b>T-</b> 99-2											
T-99-2 T-100-1	1.45R	River Farms Co.	Footnote (1)	Delete	(1)	97		Table 93 - Sacramento to Redding	Total General Acreage Total Rice Acreage	243180 247962	121680 123981

#### CHANORS TO PREVIOUSLY PUBLISHED WATER SUPERVISION REPORTS (Contd.)

_		Location of Error	Item	Chan	ige			Location of Error	Item	Char	ige
Page	Mile & Bank	Name		From	To	Page	Mile & Bank	Name		From	To
											1
		<u>1947 (Con</u>		(10)	(		ach Br	1949 (Cor	General Acreage	26128	26158
99	33.5R	Davis Estate	Following name Oeneral Acreage Rice Acreage	(10) (11) (11)	(11) (10) (10)	132	154.8R	Olenn-Colusa I. D. Table 143 Butte City to	Total General Acreage	48721	48752
99	33.7L	Davis Estate	Mile & Bank	33.7L		130		Red Bluff	iotar senerar sereage		
39	22.17	David Devace	General Acreage Rice Acreage		33.7R (10) (10)	132	246.3R	I, & M, Diestelhorst	General Acreage	24	14
		1948				132		Table 143 - Red Bluff to Redding	Total General Acreage	18375	18365
99		Table 104 - Back Borrow Fit	1948 Diversion	82500	59100	132		Table 143 - Sacramento to	Total General Acreage	143495	144403
104	18.OR	Joae Alves & Sons	Diversions July	76	759	137	10.08	Redding Martin Oun Club	Total Rice Acreage Pootnote (x)	137269 Nov. 18	137369 Nov.150
104		Table 105 - Sacramento to Verona	Total Diversions July	34239	34922	721	10.04	marcin dun crub	roomote (x)	107, 10	& Dec.
		Verona	Total Av. Cu. Ft./second	137292	137975			1950			
			July Total	557 283	569 284	130	63.2R	R. D. 108 (Wilkins Slough)	General Acreage	1644	1841
			Monthly use in % of Seasonal			131	80.0L	Meridian Parms Water Co.	Footnote (o)	in-	an ad-
	(		July	24.9	25.3			#1 & #2		cludea 1063 acres	dition- al 960 acrea
106	03,751	Sutter Mutual Water Co.	Footnote (p)	"an addi-	"in- cludea"					401.00	of gen- eral
				tion- al"							eropa
107	70,4R	Nofman, Beckley, Ritchie, Poundstone & Denny	Rice Acreage	450	430	132		Wilkins Slough to Colusa	Oeneral Acreage	39099	39296
107	76,2L	M. S. Davis & C. K. Anderson	Footnote (k)	170	17	132	88.4L	Rosa Wilbur	Change name	Rose Wilbur	Mrs. W. D. De-
108		Table 105 - Wilkins Slough	Total Rice Acreage	33503	33483						Jarnett
		to Colusa				133	112.4R	Frinceton-Codora-Glenn I, D,	Pootnotes (c) and (b)	Delete : & add to Include:	crom (c) p (b).
110		Table 105 - Sacramento to Redding	Total Diversions July	365701	366384					Include: acres of club lar	f duck
			Total Av. Cu. Ft./second	1593474	1594157					which 50	57 is
			July Total	5947 3279	5967 3280					lands.	Includes
			Total Rice Acreage	128314	124097					330 acro and 75 general	crop
111	11.7L	Charles Welch Walter McGowan	Footnote (a) Mile & Bank	11.8R Opp.	11.7R 21.4R					lands of distric	uts1de
111	Opp. 21.4R	Walter, hedowall	Rice Acreage	21.4R 350	400	135	240.5L	Anderson-Cottonwood I. D.	General Acreage	18610	18360
111		Table 106	Total Rice Acreage	4745	4795	135		Table 152 - Red Bluff to	Total General Acreage	19087	18837
112	0,3L	River Farms Company	Diversions Mar.	4404	440	135		Redding Table 152 - Sacramento to	Total General Acreage	152817	152764
			April May	845 8846	85 885			Redding	Toone Concreas Hereogo		
			June July	1789	179 511	138	32.6R	Federal Fish & Wildlife	Note (c)	Delete : eral Ac:	from Gen-
			Aug. Sept. Total	1593 3431 26014	159 343 2602	1				Add to I Acreage	Rice
			Total Diversions March		573	140	0,98	Butte Slough - George Smith	Diversions June	-	10
			April May	4537 1810 17659	1050 9698			<u>1951</u>			
			June July	12195 20392	10685	135	63.2R	R. D. 108 (Wilkins Slough)	Rice Acreage	1542	11542
			Aug. Sept.	15261 10433 82497	15797 13827 7345	137		Wilkins Slough to Colusa	Total Rice Acreage	22823	32823
			Total Av. Cu. Pt./second		7345 59085	141	9.75L	I. O. Zumwalt	Rice Acreage	427	456
			March April	74 30 287	9.3 18	141		Colusa Trough	Total Rice Acreage	6640	
i			May June July	205	158 178	145	0.0	Butte Slough Irr. Co., Ltd.	Footnote (v)	Mile 0.	inote (v): O wsa
			Aug. Sept.	332 248 175	257 225 123					listed 0.3W pr	as Mile ior to
			Total Monthly use in % of	170	122			1952		1951.	
			Seasonal March April	5,5 2,2	0.9 1.8	72		Table 48	Runoff in acre-feet		
			May June	21.4	16.4 17.9 26.7				July Water year total	36910 591360 661590	36320 590770 661000
			July Aug.	24.8 18.5	23.4	140	R) 0r	Manna Mall	Calendar year total	661590	661000
119	2 769	No, Sacramento Landa Co.	Sept. Delete note	12.6 Delete	12.4	142	81.8L	Wayne Nall	Pootnote (h)	C. Reische	F. Reische
119	2.158			note "No		147	10.5L (0.4)	Lloyd Kahn	Mile & Bank	10.5L (0.4)	10.5L (0.48)
				Diver- aion"			(014)	1953		(0,4)	(01.0)
			Diversions July	-	1	97		Table 94	Daily Flow May 20	755	730
			Sept. Oct.	-	2				Мљу 21 Мау 25	1200	1220
			Total General Acreage	-	4 5	1			May 26 May 27 May 28	1670 2150	1690 1250
119		American River	Total Diversions July	1737	1738				May 29	2320	1100 1100 1100
			Sept. Oct.	1030	1032				May 30 May 31 Mean	1670 2150 2320 2320 2310 2320 1104	1100 1100 919
			Total Total General Acreage	495 5883 3628	496 5887 3633				Runoff in acre-feet Daily flow June 1		56520 1100
		1949		0.10					June 2 June 8	2320 1820 2200	1520 2220
125	15.1R	J. A. Damron	General Acreage	150	250				June 10 June 11	1670 1720	1640 1580
125		Table 142 - Sacramento to	Total General Acreage	14341	14441				June 12 June 13	1720	1580 1580
125	19.6L (2.03)	Verona Natomaa Northern Mutual Water	General Acreage	1508	2205				June 14 June 15 June 16	1670	1610 1880
125	(2.03)	Co.	denotar WoredRe	1000	2295				June 16 June 17 June 18	1500 1460 1400	1770 1820 1890
125	22.5R	Nenry Rich (Keller Flant)	Rice Acreage	780	880				June 19 June 20	927	2460
126		Table 142 - Verona to Knights Landing	Total General Acreage Total Rice Acreage	5511 7337	6298 7437				June 21 June 22	927 974 582 262 977 1370 1040	2970 3570 2420
129	88.4L	Ross Wilbur	Change name	Roas	Mrs. W.				June 23	977 1370	1900
				Wilbur	D. Jar- nett				June 25 June 26		2290 2000
131	141.5L	M & T Inc. & Farrott	General Acreage	3468	3469				June 27 June 28	1390 1460	1860
131	146.1R	Investment Co. Lloyd & D. A. Nazelton	Diversions Oct.	22					June 29 Mean Runoff in acre-feet	1690 1486 88450	1530 1913 113800
	2.10 p 411		General Acreage	104	22 104				Water year total Calendar Year Total	512700 518130	526700 532130
										200130	552150

# CHANGES TO PREVIOUSLY PUBLISHED WATER SUPERVISION REPORTS (Continued)

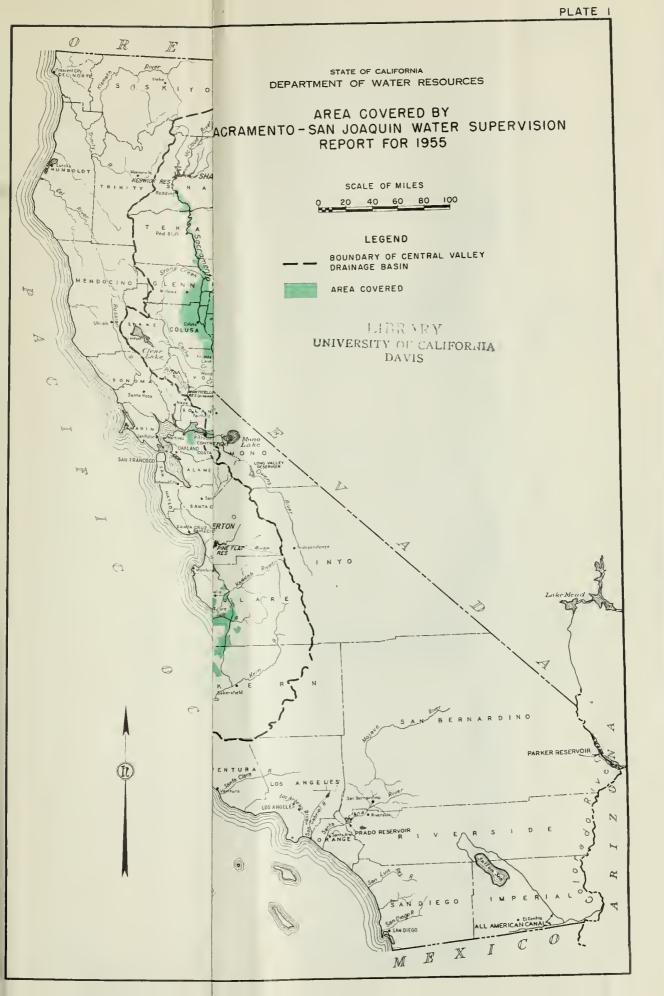
	Location of Error	Item	Chan	ge
Mile Page & Bank			From	То
	1953 (Cont			
188	Table 209 - Flow for minimum 10-day period	Sacramento & San Joaquin to Delta - 1953	4350	8690
53	<u>1954</u> Table 4 - San Joaquin River Delta-Mendota Canal	Deliveries - Jan. Feb. Mar. Apr. June July Aug. Sept. Oct. Nov. Dec.	5159 50285 69033 119288 80636 173429 196487 174795 107779 54734 13492 498	0 24921 59848 99325 63399 147710 162006 149400 97507 44198 9752 9572 9572
		Total Measured Inflow Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Total	1045625 25059 68630 74472 129241 151462 179822 198355 1777496 110145 57316 21846 15380 1209224	858486 19890 43266 65287 109278 134825 154103 152101 99873 46780 17926 14882 1022085
		Unmeasured Accretions Jan. Feb. Mar. Apr. May June July Unmeasured Accretions Aug. Sept. Oct. Nov.	-7086 -36137 -14473 -24495 -23621 -34559 -45417 -32993 -17665 -7854 -4578	-1917 -10773 -5288 -4532 -6984 -8840 -10936 -7598 -7393 +2682 -658
	Millerton Lake to Vernalia	Dec. Total Unmeasured Accretions Jan. Feb. Mar. April May July Aug. Sept. Oct. Nov. Dec. Total	-1055 -249933 +9369 +3951 +42325 +34245 +25809 +13606 -22937 -13939 +5049 +7796 +6043 +19262 +130579	-557 -62794 +14538 +29315 +51510 +54208 +42446 +12446 +11544 +11544 +11544 +13321 +18332 +19963 +19760 +317718
187	Table 202 - Delta-Mendota Canal	Net Deliveries April June July Aug. Sept. Nov. Total Add footnote *** and reference to "Net deliveries" line		lude de- s to Water s etc., lota Pool
196	Table 218 - Flow for minimum 10-day period	Sacramento and San Joaquin to Delta - 1953	and C.C. aide car 4350	I.D. out- al 8690

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

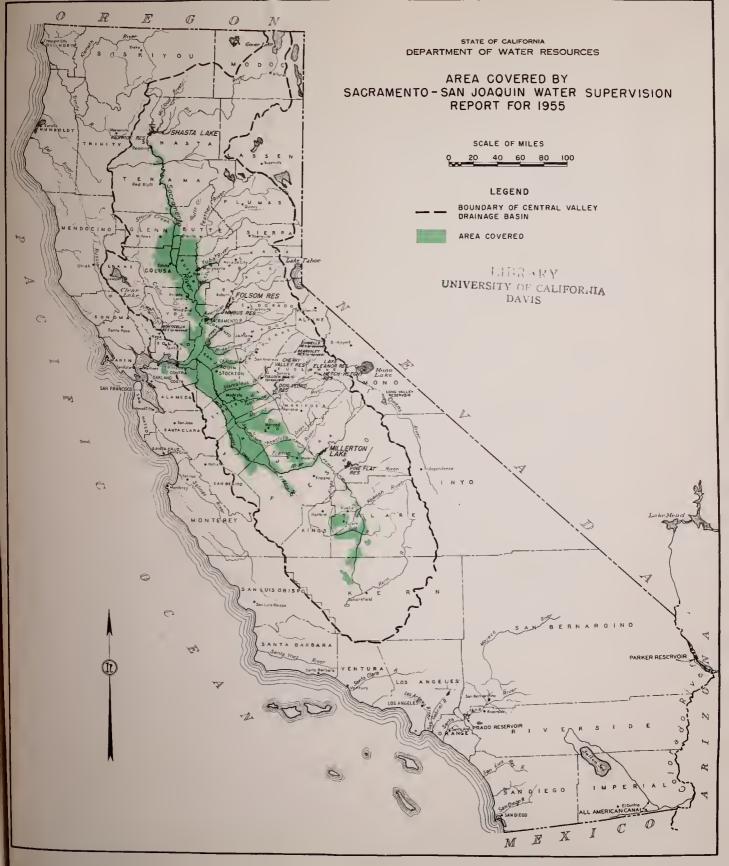
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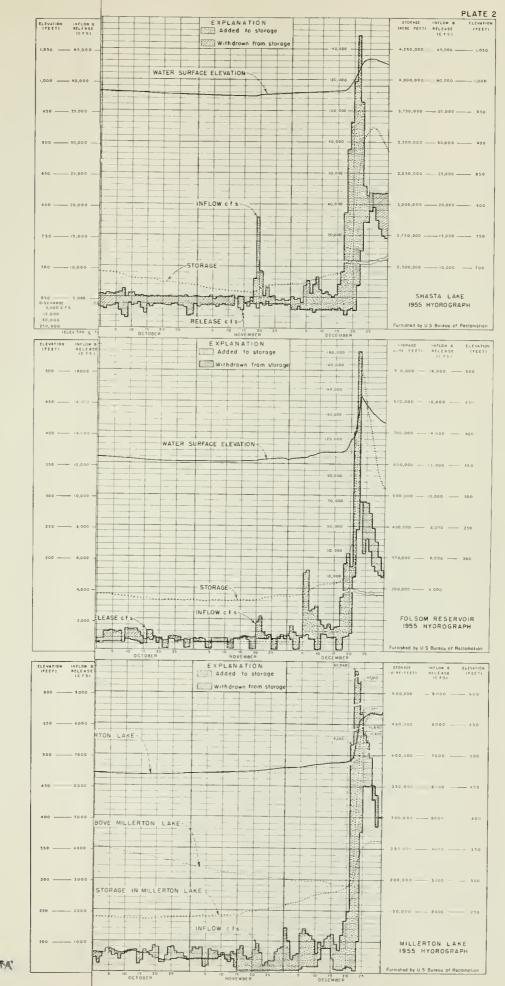
# PLATES

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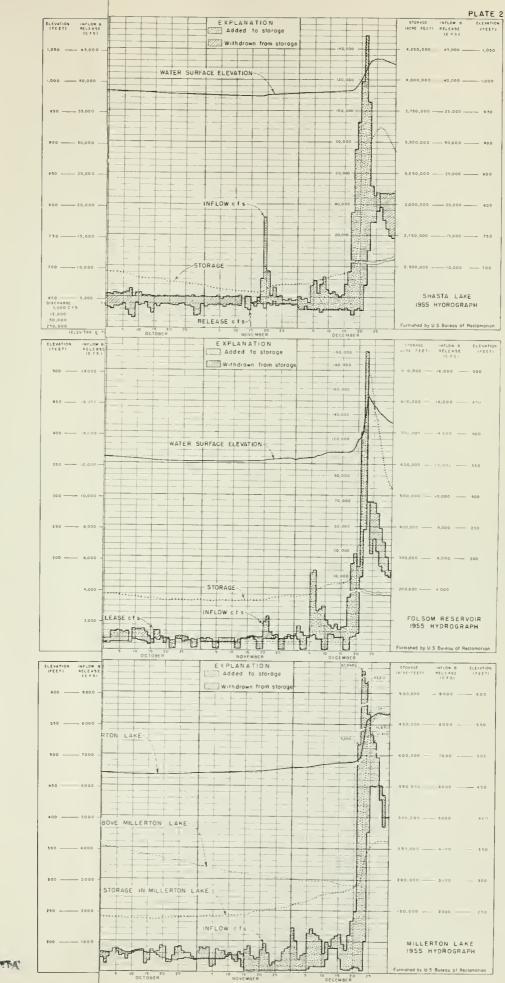




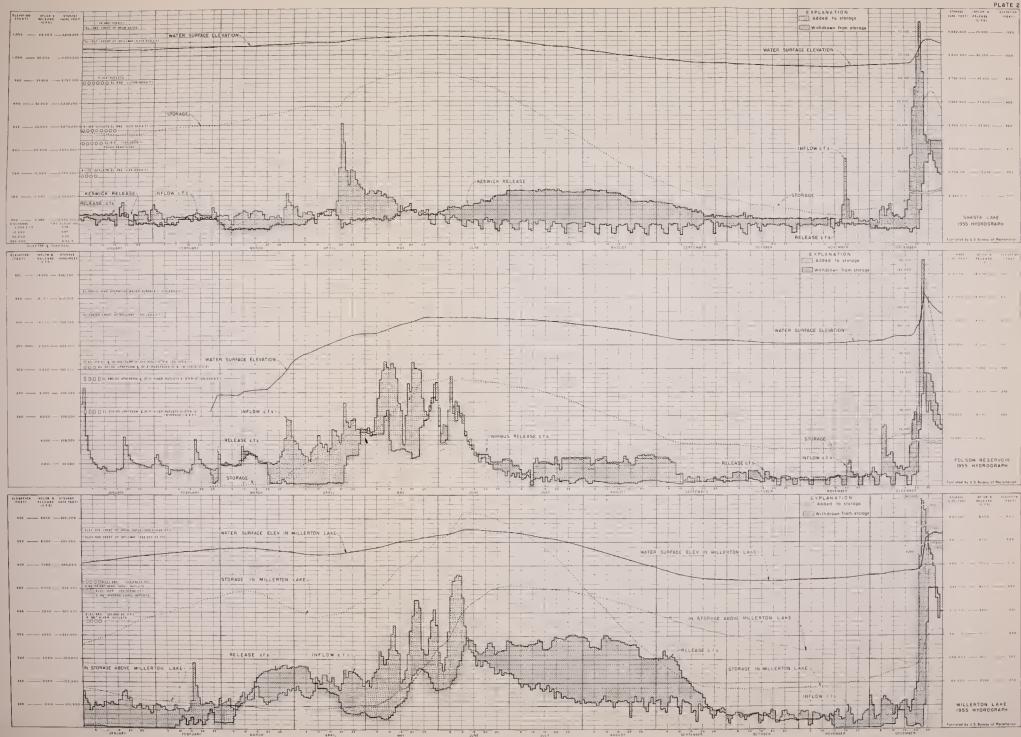
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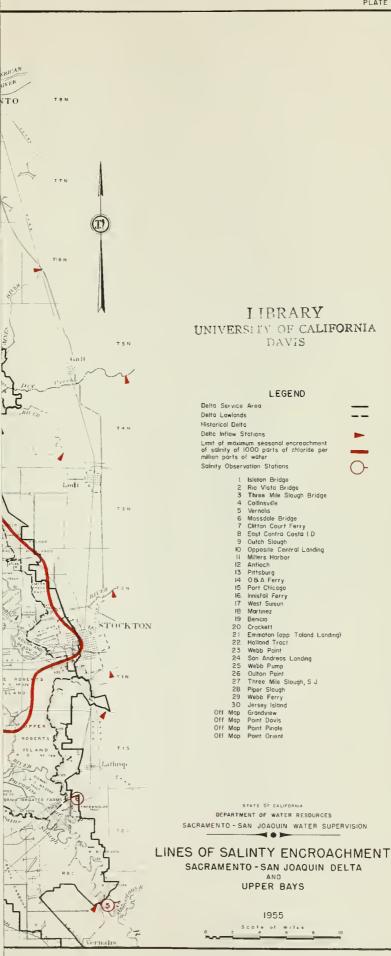




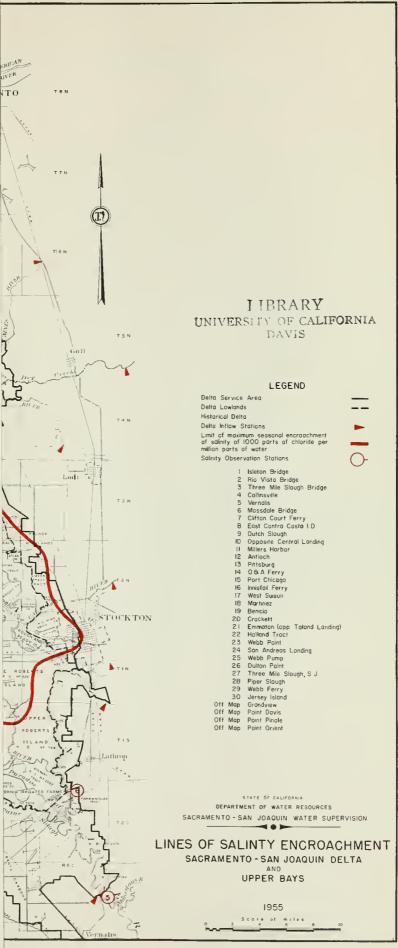
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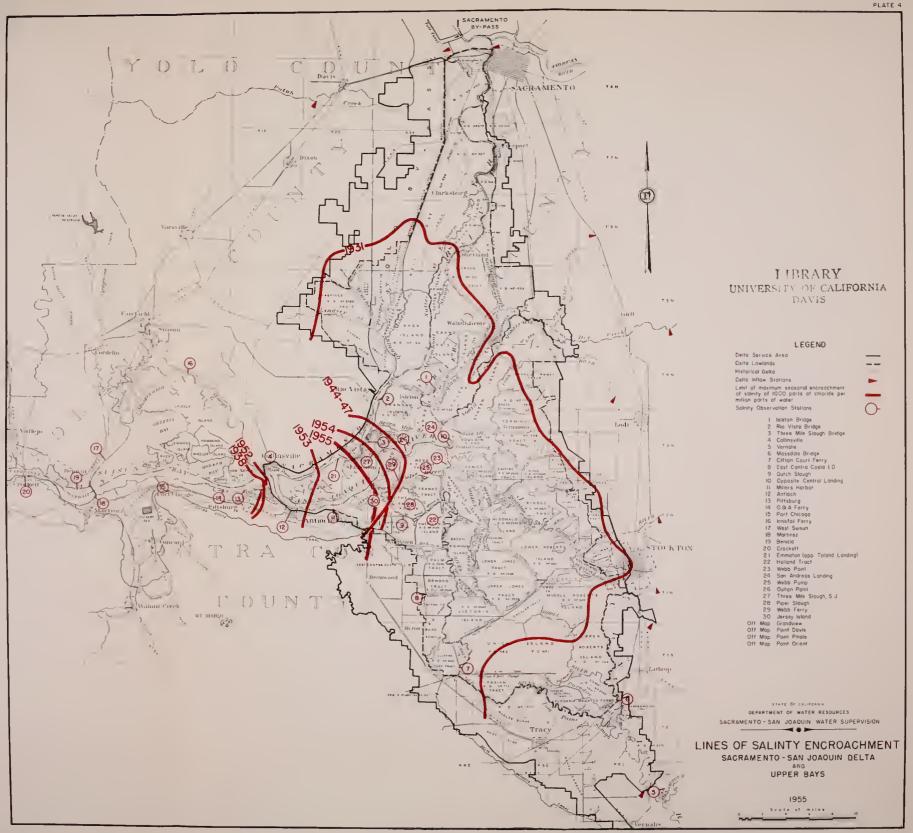


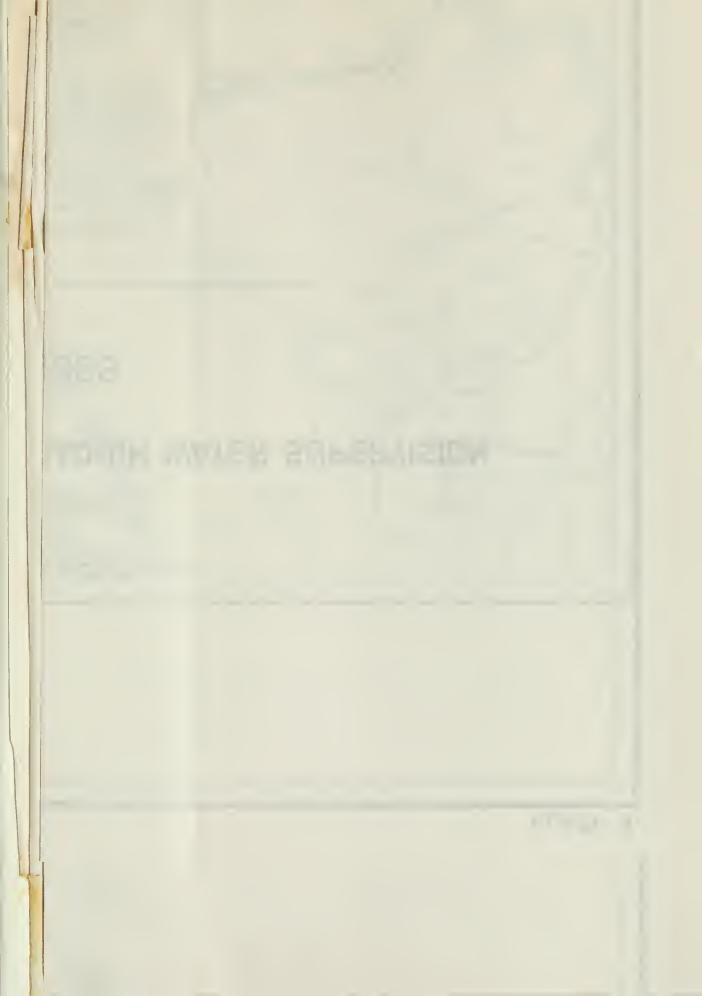






















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